SMD Power Inductor

TMPC053TV-Series(G)-V01

1. Features

1. Carbonyl Powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS complian
7. High reliability -Reliability test meet AEC-Q200
8. Operating temperature: -55~+125℃(Including self-temperature rise)

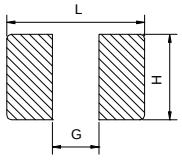
Halogen-free

RoHS

2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter.

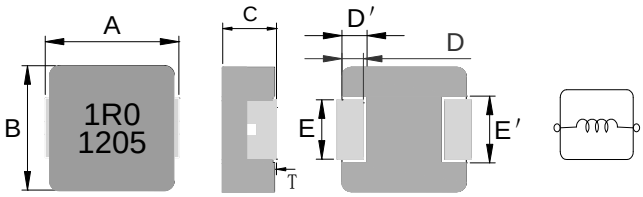
Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.0	3.0	2.5

Note : Recommend solder paste thickness at 0.12mm and above

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	D'(mm)	E(mm)	E'(mm)	T(mm)
TMPC053TV	4.9±0.3	4.7±0.2	2.8±0.2	1.0±0.3	1.5±0.1	1.5±0.3	2.0±0.2	0~+0.15

4. Part Numbering

TMPC	053	TV	-	1R0	MG	-	V01
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder. V: Vehicle
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20%
F: Control S/N — 印字:黑色. 1R0 及 D/C 1205 (12 YY, 05 WW, follow production date)

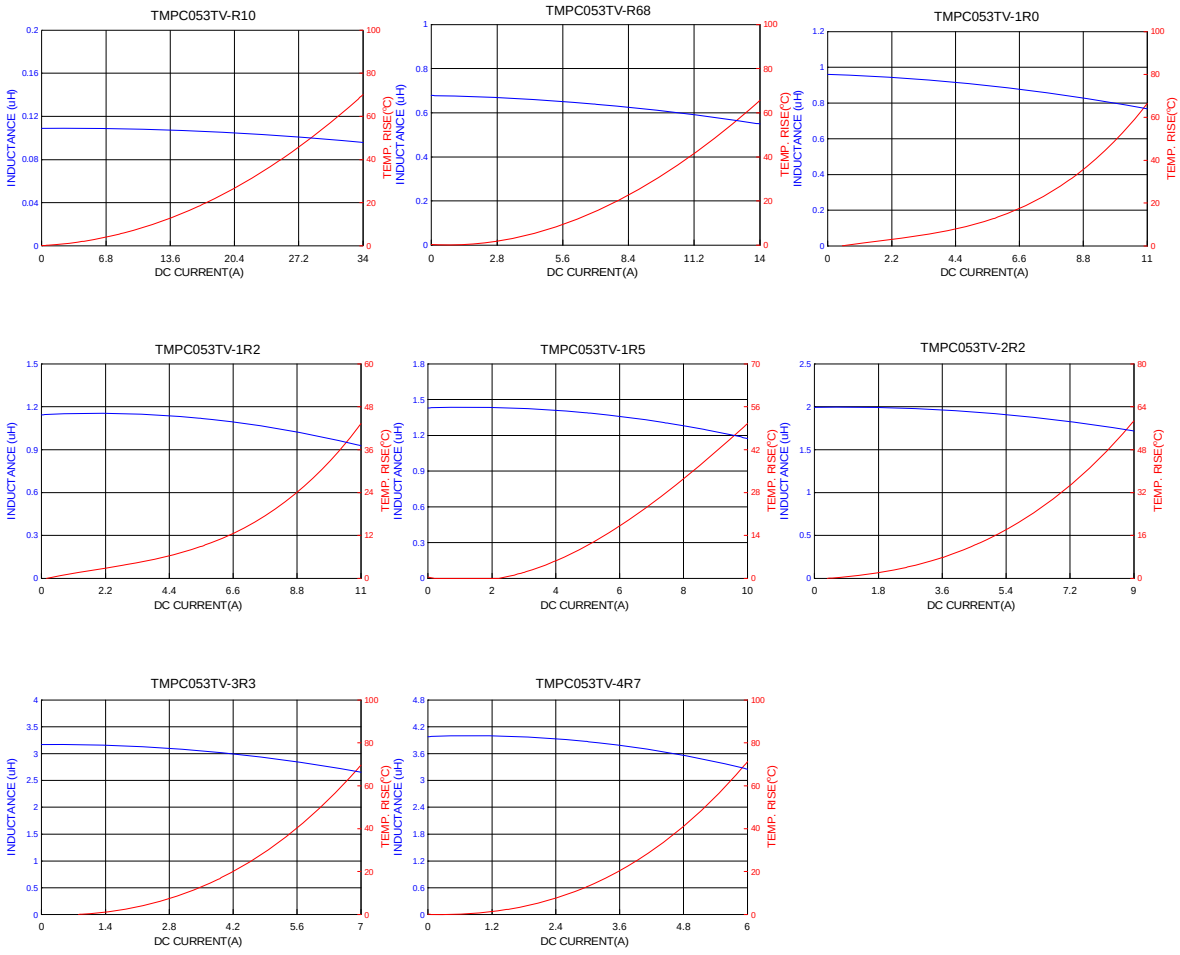
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC053TV-R10MG-V01	0.10	20	34	2.0	2.5
TMPC053TV-R68MG-V01	0.68	8.5	14	8.1	9.0
TMPC053TV-1R0MG-V01	1.00	7.0	11	12.5	14
TMPC053TV-1R2MG-V01	1.20	6.5	11	14	16
TMPC053TV-1R5MG-V01	1.50	6.0	10	17	22
TMPC053TV-2R2MG-V01	2.20	5.5	9.0	24	27
TMPC053TV-3R3MG-V01	3.30	5.0	7.0	32	38
TMPC053TV-4R7MG-V01	4.70	4.5	5.0	50	60

Note:

1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃ (keep 1min.).
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0302HV-Series(G)

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

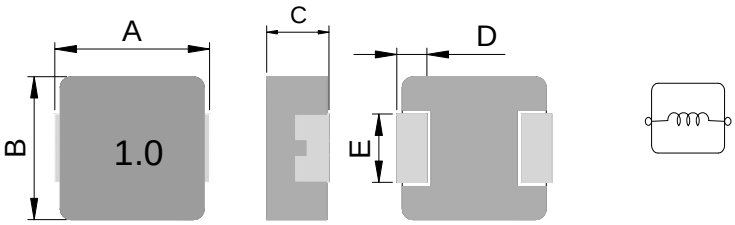
Halogen-free

RoHS

2. Applications

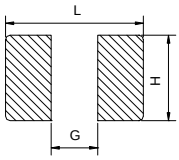
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0302HV	3.5±0.2	3.2±0.2	1.8±0.2	0.7±0.2	1.2±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
4.1	1.9	1.45

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0302	HV	-	1R0	MG
A	B	C		D	E

A: Series
B: Dimension — BxC
C: Type — H:Carbonyl Powder, V:vehicle.
D: Inductance — 1R0=1.00uH
E: Inductance Tolerance — M=±20%,Y=±30%, 印字:黑色,單向印字,1.0 中間打點.

.

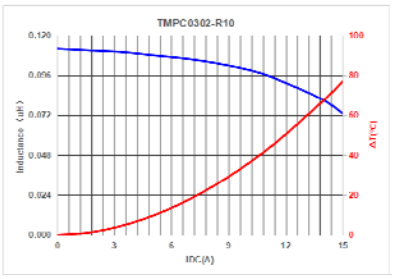
5. Specification

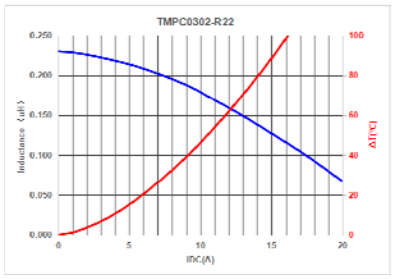
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0302HV-R10YG	0.10±30%	10.5	14	6.6	9.0
TMPC0302HV-R22YG	0.22±30%	9.0	11.2	11	14
TMPC0302HV-R33MG	0.33	8.0	10	17	21
TMPC0302HV-R47MG	0.47	7.0	9.0	19.7	23
TMPC0302HV-R60MG	0.60	6.0	7.5	24	28
TMPC0302HV-R68MG	0.68	5.5	7.0	25.5	29
TMPC0302HV-R82MG	0.82	4.8	6.0	27	32
TMPC0302HV-1R0MG	1.00	4.0	5.0	32	38
TMPC0302HV-1R2MG	1.20	3.9	4.5	39	47
TMPC0302HV-1R5MG	1.50	3.8	4.0	42	50
TMPC0302HV-2R2MG	2.20	3.5	3.7	65	75
TMPC0302HV-3R3MG	3.30	3.0	3.5	125	145
TMPC0302HV-4R7MG	4.70	2.6	3.0	172	200
TMPC0302HV-5R6MG	5.60	2.2	2.6	205	238
TMPC0302HV-6R8MG	6.80	1.9	2.2	260	300
TMPC0302HV-8R2MG	8.20	1.6	1.9	340	390
TMPC0302HV-100MG	10.0	1.4	1.6	366	422

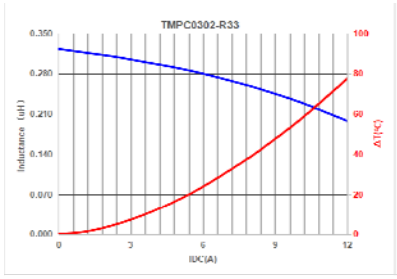
Note:

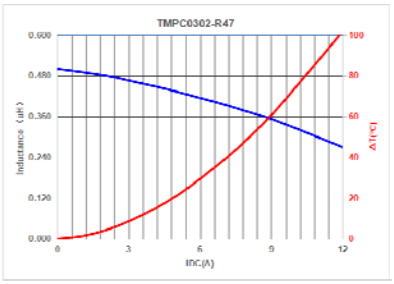
1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃.
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

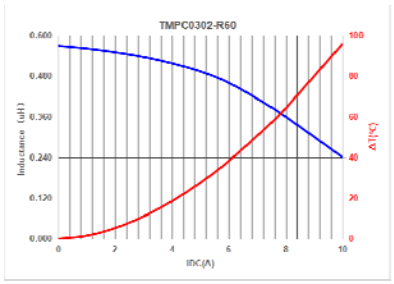
6. Typical Performance Curves

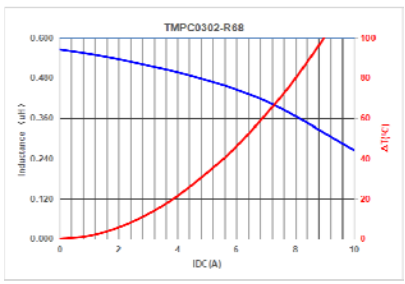


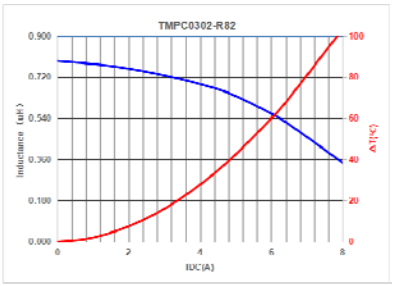


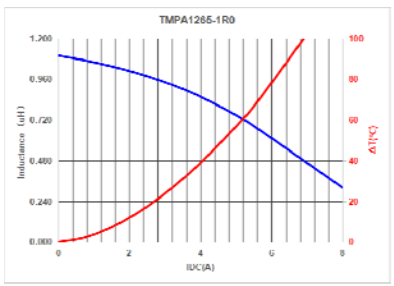


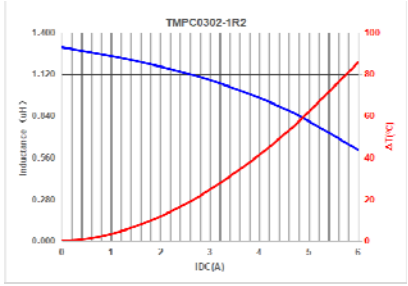


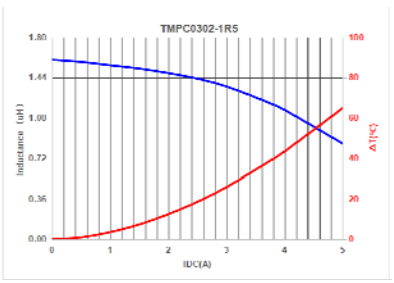


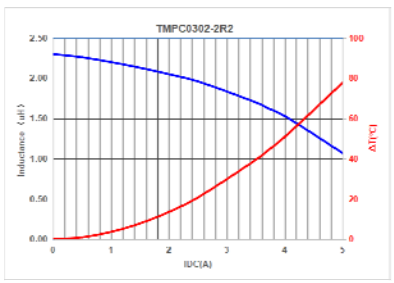


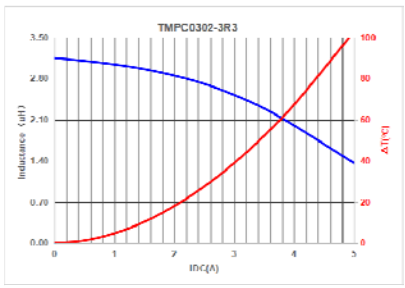


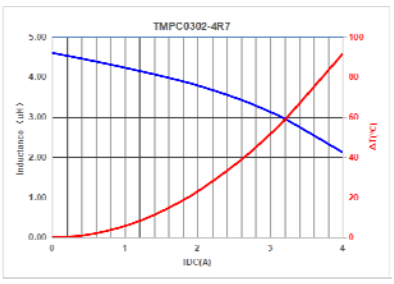


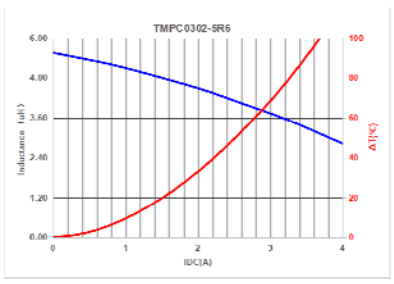


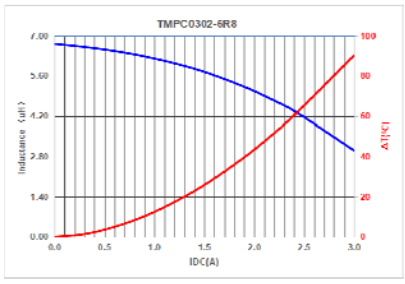


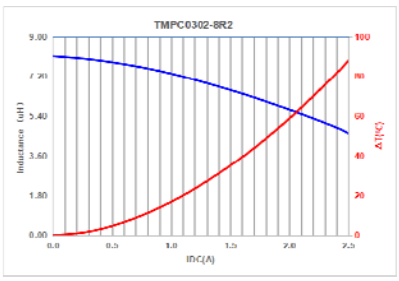


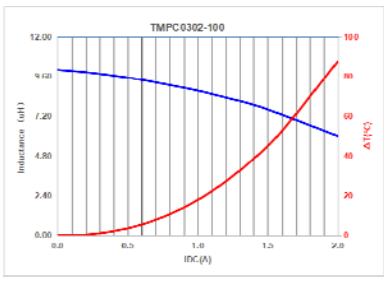












SMD Power Inductor

TMPC0312HV-Series(G)

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

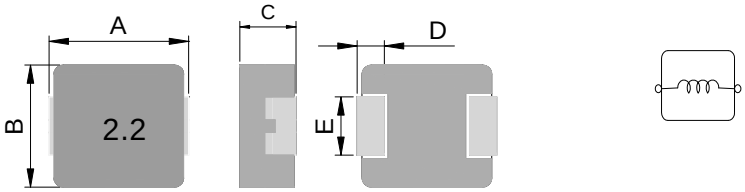
Halogen-free

RoHS

2. Applications

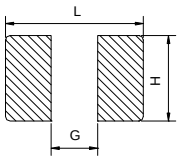
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0312HV	3.5±0.2	3.2±0.2	1.0±0.2	0.7±0.2	1.2±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
4.1	1.9	1.45

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0312	HV	-	2R2	MG
A	B	C		D	E

A: Series	
B: Dimension	BxC
C: Type	Carbonyl Powder. V: Vehicle
D: Inductance	2R2=2.2uH
E: Inductance Tolerance	M=±20%,Y=±30% 印字:黑色,單向印字,2.2 中間打點.

.

5. Specification

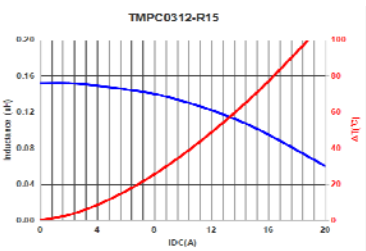
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0312HV-R15YG	0.15	10	14	9.6	11
TMPC0312HV-R22MG	0.22	6.5	10	14	17
TMPC0312HV-R33MG	0.33	6.2	9.2	16	20
TMPC0312HV-R36MG	0.36	6.0	8.5	18.5	23
TMPC0312HV-R47MG	0.47	5.0	7.2	25	30
TMPC0312HV-R56MG	0.56	4.5	6.6	31	36
TMPC0312HV-R68MG	0.68	4.0	6.1	34	40
TMPC0312HV-R82MG	0.82	3.5	5.8	41	48
TMPC0312HV-1R0MG	1.00	3.3	5.5	50	60
TMPC0312HV-1R5MG	1.50	3.0	4.0	71	85
TMPC0312HV-2R2MG	2.20	2.7	3.4	98	115
TMPC0312HV-3R3MG	3.30	2.0	3.1	191	210
TMPC0312HV-4R7MG	4.70	1.6	2.8	266	293
TMPC0312HV-5R6MG	5.6	1.5	2.2	310	360
TMPC0312HV-6R8MG	6.80	1.4	2.0	360	400
TMPC0312HV-8R2MG	8.20	1.2	1.7	420	463
TMPC0312HV-100MG	10.0	1.0	1.4	498	550

Note:

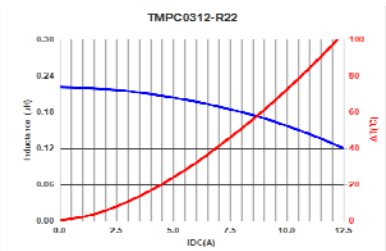
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves

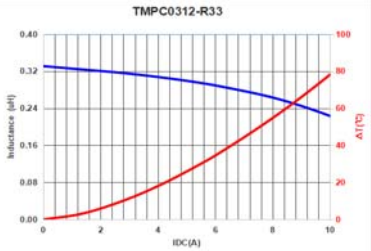
TMPC0312-R15



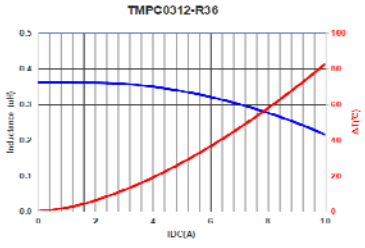
TMPC0312-R22



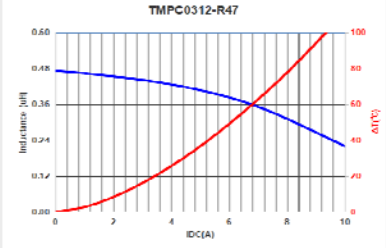
TMPC0312-R33



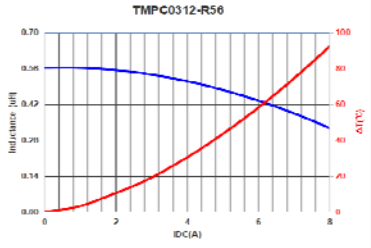
TMPC0312-R36



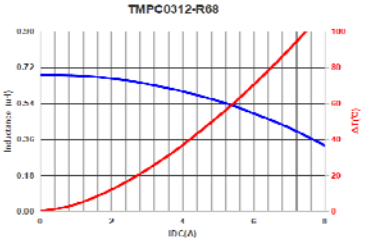
TMPC0312-R47



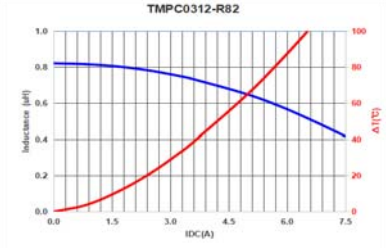
TMPC0312-R56



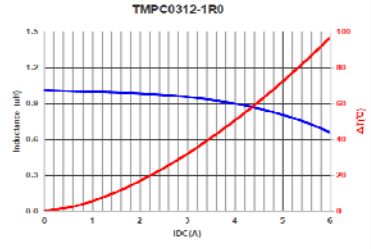
TMPC0312-R68



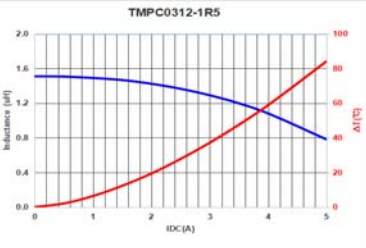
TMPC0312-R82



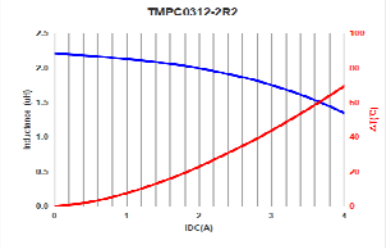
TMPC0312-1R0



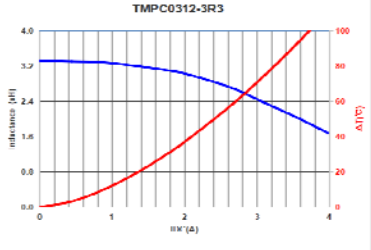
TMPC0312-1R5



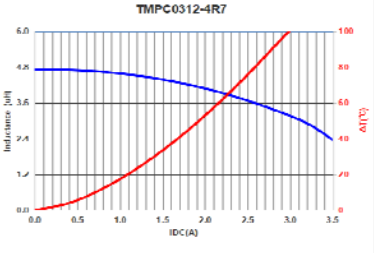
TMPC0312-2R2



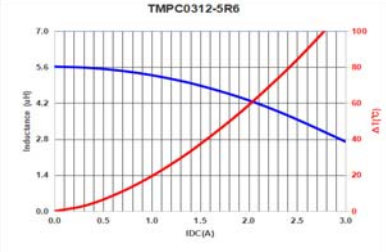
TMPC0312-3R3



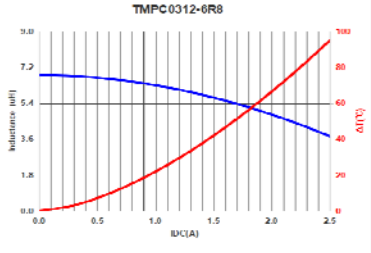
TMPC0312-4R7



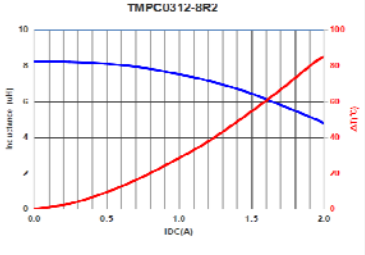
TMPC0312-5R6



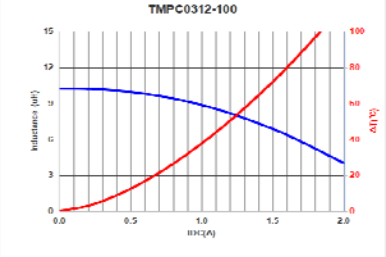
TMPC0312-6R8



TMPC0312-8R2



TMPC0312-100



SMD Power Inductor

TMPC0315HV-Series(G)

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

Halogen-free

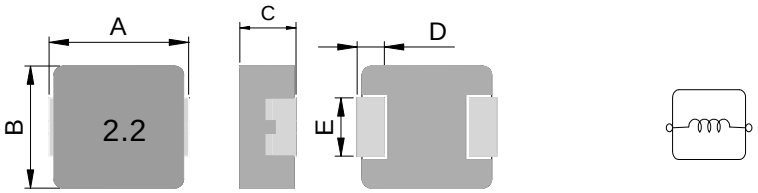
RoHS

2. Applications

Note PC power system，incl. IMVP-6

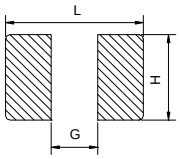
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0315HV	3.5±0.3	3.2±0.2	1.3±0.2	0.7±0.2	1.2±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
4.1	1.9	1.45

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0315	HV	-	2R2	MG
A	B	C		D	E

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder. V: Vehicle
D: Inductance — 2R2=2.2uH
E: Inductance Tolerance — M=±20%, 印字:黑色,單向印字,2.2 中間打點.

.

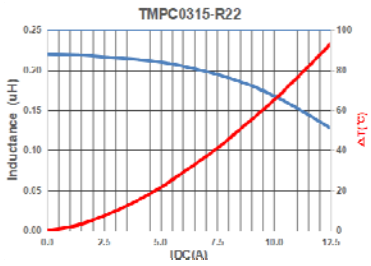
5. Specification

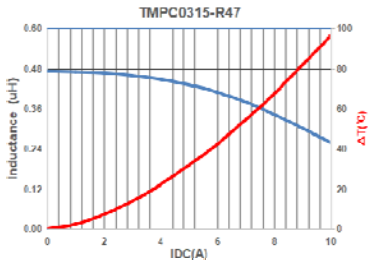
Part Number	Inductance L0 (uH)±20%	I rms (A)	I sat (A)	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0315HV-R22MG	0.22	7.0	10.8	14	17
TMPC0315HV-R47MG	0.47	5.5	8.0	23.3	28
TMPC0315HV-R56MG	0.56	5.0	7.2	28	33
TMPC0315HV-R68MG	0.68	4.5	6.5	34	42
TMPC0315HV-1R0MG	1.00	3.6	5.8	41	50
TMPC0315HV-1R5MG	1.50	3.4	4.0	64	77
TMPC0315HV-2R2MG	2.20	3.2	3.8	82	98
TMPC0315HV-3R3MG	3.30	2.5	3.2	170	205
TMPC0315HV-4R7MG	4.70	1.9	2.8	220	264
TMPC0315HV-5R6MG	5.60	1.7	2.3	265	318
TMPC0315HV-6R8MG	6.80	1.5	2.0	290	348
TMPC0315HV-8R2MG	8.20	1.3	1.8	390	468
TMPC0315HV-100MG	10.0	1.2	1.6	435	522

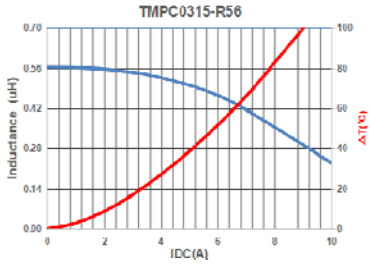
Note:

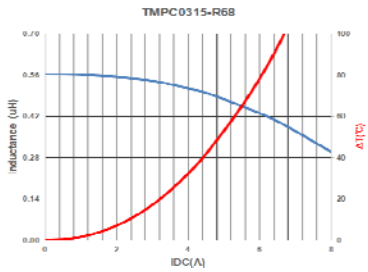
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

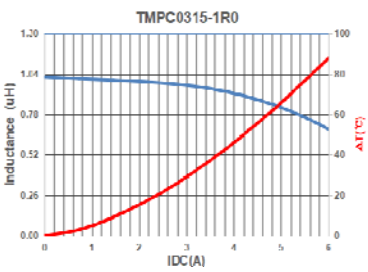
6. Typical Performance Curves

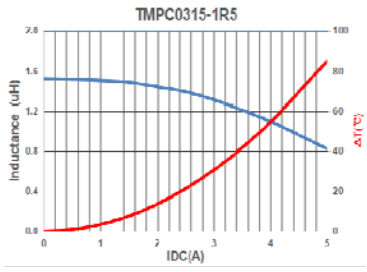


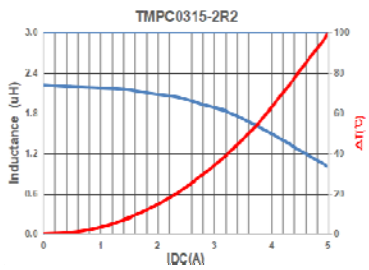


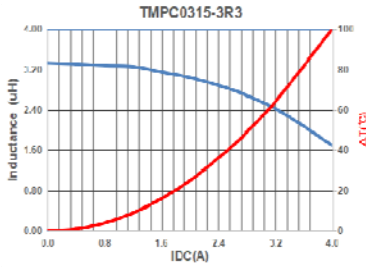


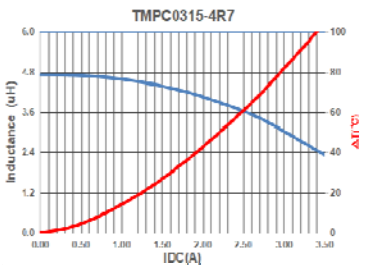


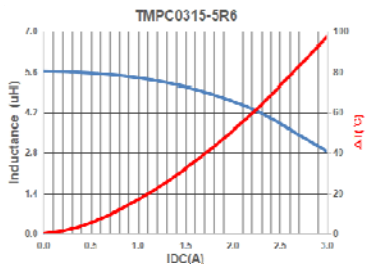


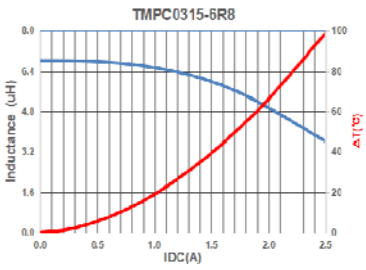


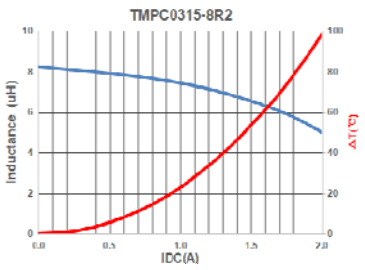


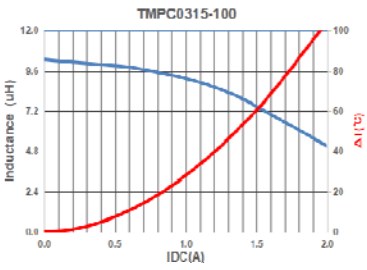












SMD Power Inductor

TMPC0318HV-Series(G)

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

Halogen-free

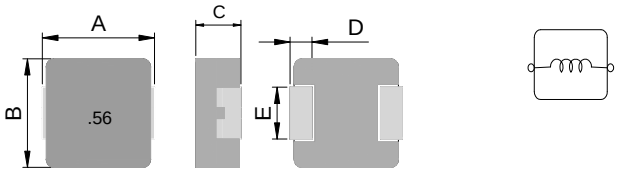
RoHS

2. Applications

Note PC power system，incl. IMVP-6

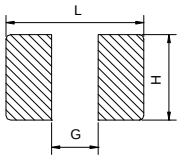
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0318HV	3.5±0.3	3.2±0.2	1.6±0.2	0.7±0.2	1.2±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
4.1	1.9	1.45

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0318	HV	-	R56	MG
A	B	C		D	E

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder.
D: Inductance — R56=0.56uH，
E: Inductance Tolerance — M=±20%;印字:黑色,單向印字,.56 前面打點,噴碼或移印.

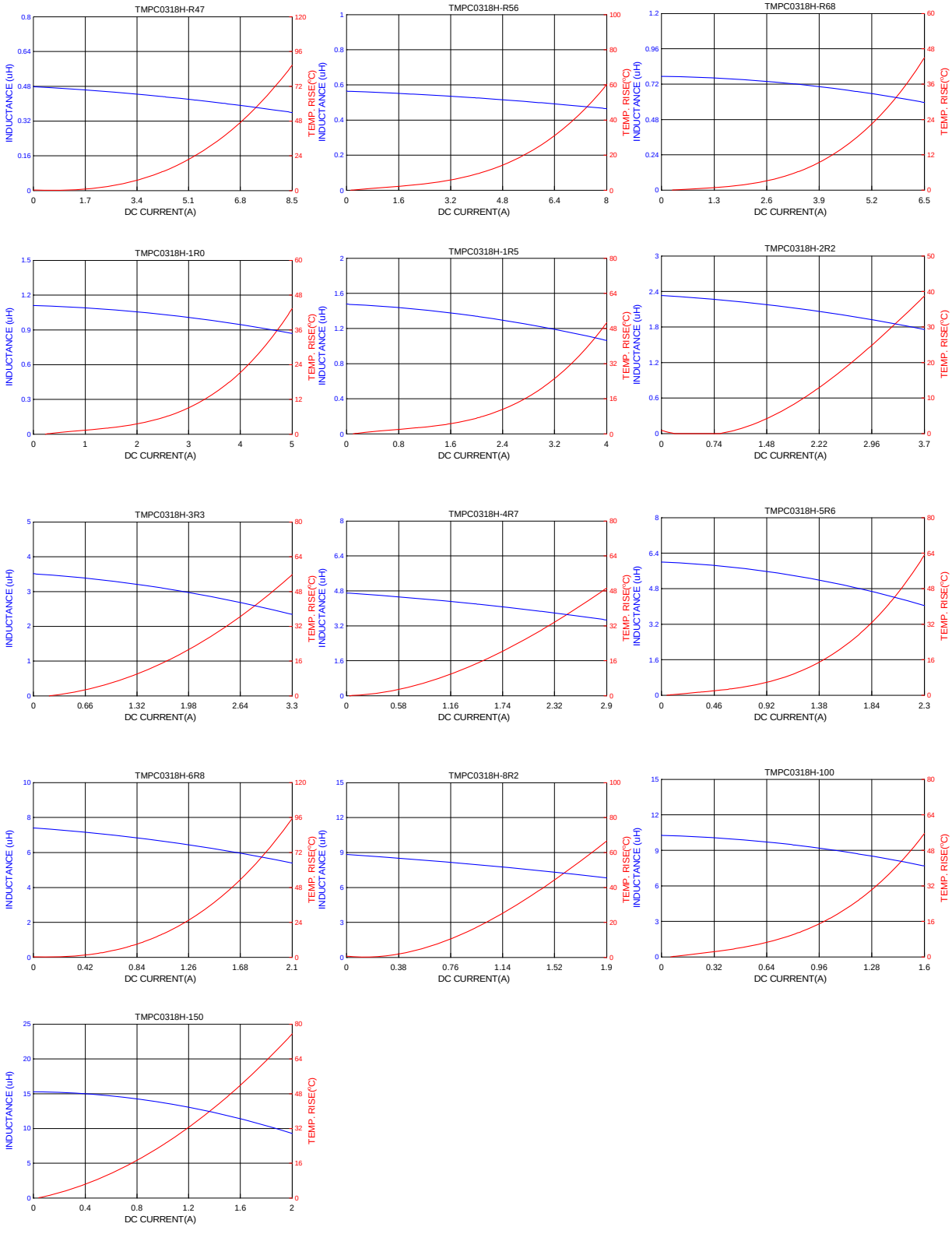
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0318HV-R47MG	0.47	6.0	8.5	21.5	25
TMPC0318HV-R56MG	0.56	5.0	8.0	21	26
TMPC0318HV-R68MG	0.68	5.0	6.5	29	33.5
TMPC0318HV-1R0MG	1.00	3.8	5.0	38	44
TMPC0318HV-1R5MG	1.50	3.5	4.0	56	65
TMPC0318HV-2R2MG	2.20	3.3	3.7	73	85
TMPC0318HV-3R3MG	3.30	2.7	3.3	136	158
TMPC0318HV-4R7MG	4.70	2.3	2.9	180	208
TMPC0318HV-5R6MG	5.60	1.9	2.3	238	275
TMPC0318HV-6R8MG	6.80	1.5	2.1	275	320
TMPC0318HV-8R2MG	8.20	1.4	1.9	350	405
TMPC0318HV-100MG	10.0	1.3	1.6	375	450
TMPC0318HV-150MG	15.0	1.2	1.5	520	600

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0402HPV-Series(G)-Z02

1. Features

1. Carbonyl powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. High reliability -Reliability test meet AEC-Q200
8. Operating temperature: -55~+125℃(Including self - temperature rise)

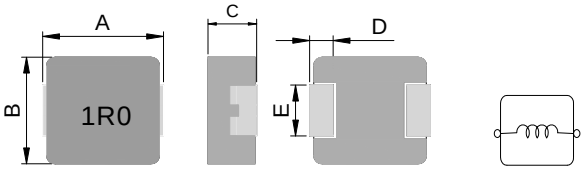
Halogen-free

RoHS

2. Applications

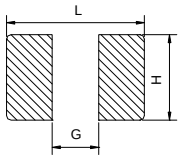
Note PC power system，incl. IMVP-6
DC/DC converter.

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0402HPV	4.45±0.25	4.06±0.25	1.8±0.2	0.76±0.30	2.0±0.20

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
5.2	2.2	2.4

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0402	HPV	-	2R2	MG	-	Z02
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — H: Carbonyl powder；P: PAD broaden V=Vehicle.
D: Inductance — 2R2=2.20uH
E: Inductance Tolerance — M=±20%；Y=±30%
F: Control S/N — 印字:黑色,單向印字

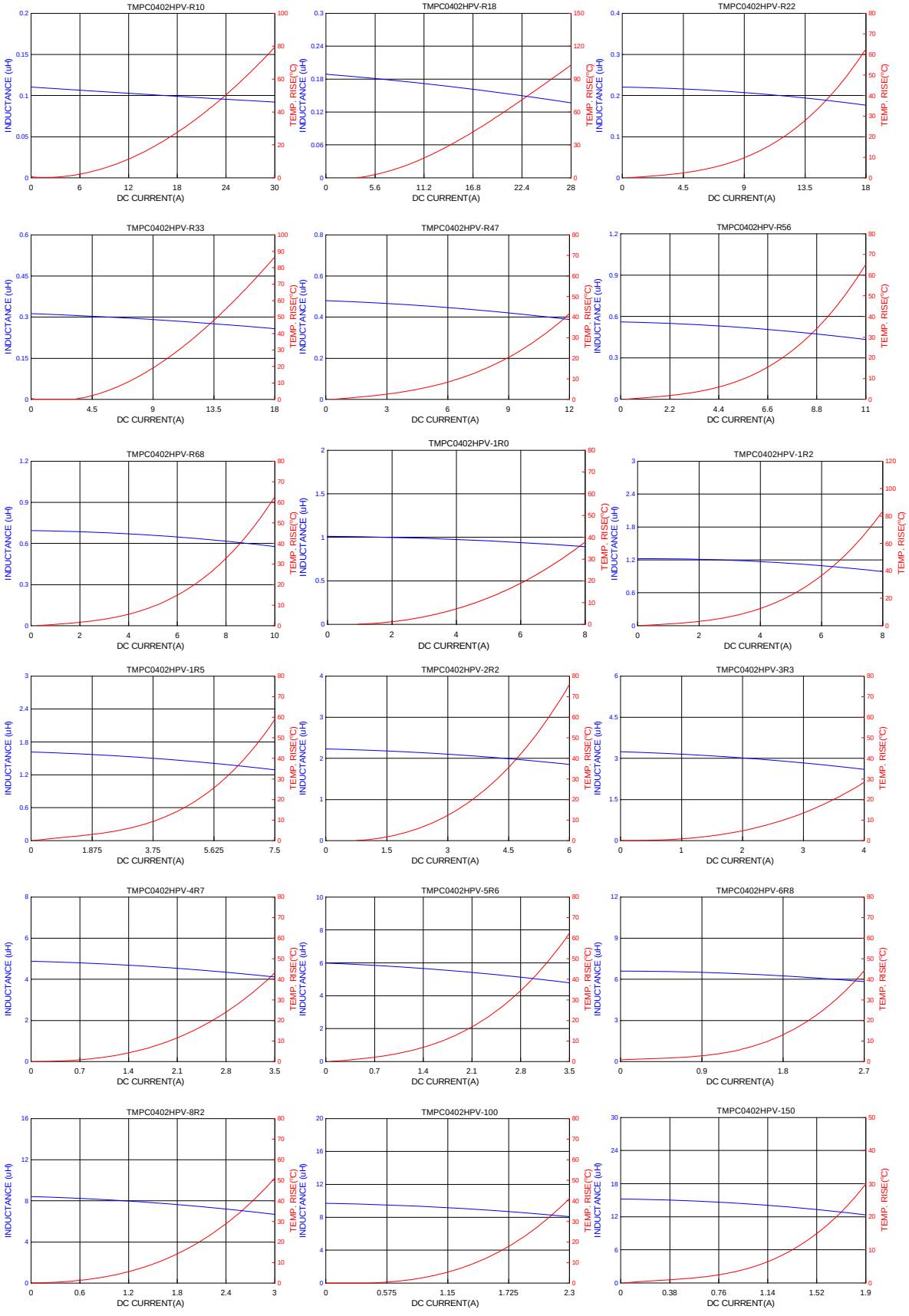
5. Specification

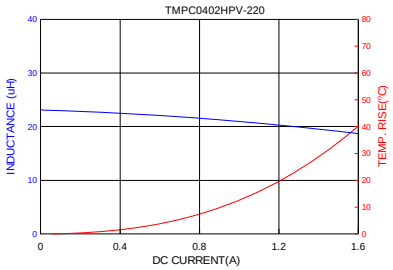
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0402HPV-R10YG-Z02	0.10±30%	12	35	3.2	4.0
TMPC0402HPV-R18YG-Z02	0.18±30%	13.5	28	4.6	5.4
TMPC0402HPV-R22YG-Z02	0.22±30%	13	24	6.6	7.3
TMPC0402HPV-R33MG-Z02	0.33	10	18	7.8	8.6
TMPC0402HPV-R47MG-Z02	0.47	8.0	12	11.2	14
TMPC0402HPV-R56MG-Z02	0.56	7.3	10	13.5	16
TMPC0402HPV-R68MG-Z02	0.68	7	10	16	19
TMPC0402HPV-1R0MG-Z02	1.00	5.0	8.5	22	27
TMPC0402HPV-1R2MG-Z02	1.20	4.8	7.8	25	30
TMPC0402HPV-1R5MG-Z02	1.50	4.5	7.0	34.8	42
TMPC0402HPV-2R2MG-Z02	2.20	4.0	6.0	51	61
TMPC0402HPV-3R3MG-Z02	3.30	3.5	4.0	69	76
TMPC0402HPV-4R7MG-Z02	4.70	2.6	3.5	95	105
TMPC0402HPV-5R6MG-Z02	5.60	2.2	3.0	112	125
TMPC0402HPV-6R8MG-Z02	6.80	2.1	2.8	150	172
TMPC0402HPV-8R2MG-Z02	8.20	2.0	2.5	158	180
TMPC0402HPV-100MG-Z02	10.0	1.8	2.3	215	243
TMPC0402HPV-150MG-Z02	15.0	1.5	1.9	325	374
TMPC0402HPV-220MG-Z02	22.0	1.2	1.4	470	500

Note:

1. Test frequency : L/Q : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 20%
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC0402HPV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
0.4
0.8
1.2
1.6
10
20
30
40
50
60
70
80

SMD Power Inductor

TMPC0412HPV-Serise(G)-Z02

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

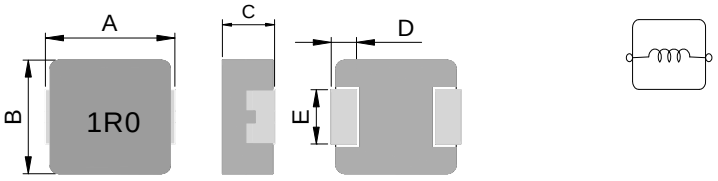
Halogen-free

RoHS

2. Applications

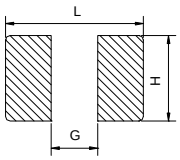
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0412HPV	4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.30	2.0±0.20

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
5.2	2.2	2.3

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0412	HPV	-	1R0	MG	-	Z02
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — H:Carbonyl Powder, P:PAD broaden. V: Vehicle.
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20% Y=±30%
F: Control S/N — 印字:黑色,單向印字

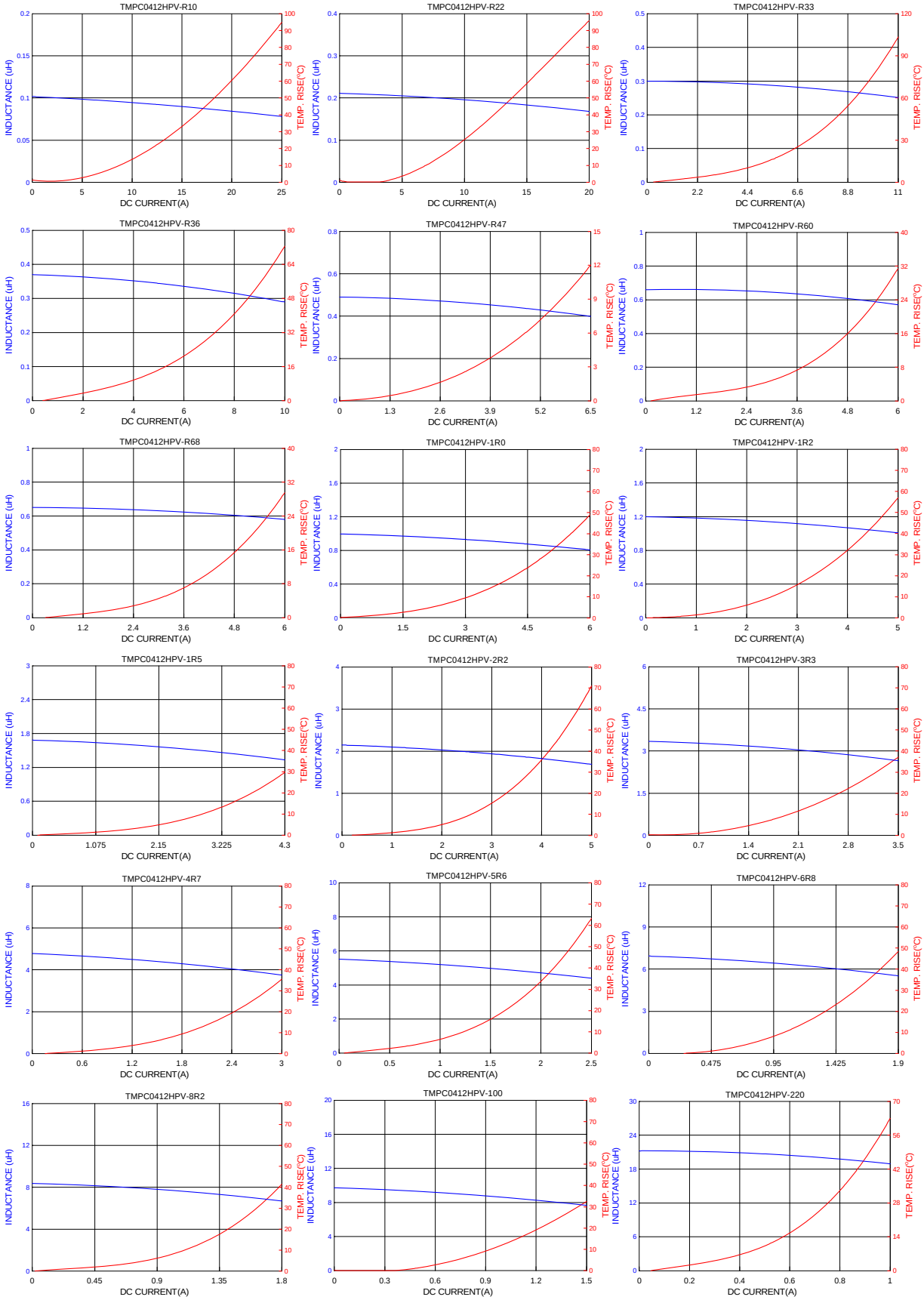
5. Specification

Part Number	Inductance L0 (uH)	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0412HPV-R10YG-Z02	0.10±30%	11.5	25	4.3	5.5
TMPC0412HPV-R22MG-Z02	0.22±20%	8.5	20	6.6	8.0
TMPC0412HPV-R33MG-Z02	0.33±20%	7.0	11	13.6	16
TMPC0412HPV-R36MG-Z02	0.36±20%	6.5	8.5	15.5	18
TMPC0412HPV-R47MG-Z02	0.47±20%	6.0	6.5	18	20
TMPC0412HPV-R60MG-Z02	0.60±20%	5.3	6.0	22.5	26
TMPC0412HPV-R68MG-Z02	0.68±20%	5.0	6.0	32	37
TMPC0412HPV-1R0MG-Z02	1.00±20%	4.0	6.0	41	47
TMPC0412HPV-1R2MG-Z02	1.20±20%	3.5	5.0	48	56
TMPC0412HPV-1R5MG-Z02	1.50±20%	3.0	4.0	55	63.3
TMPC0412HPV-2R2MG-Z02	2.20±20%	2.8	3.5	69.2	80
TMPC0412HPV-3R3MG-Z02	3.30±20%	2.3	3.0	84	97
TMPC0412HPV-4R7MG-Z02	4.70±20%	2.0	2.5	128	145
TMPC0412HPV-5R6MG-Z02	5.60±20%	1.7	2.3	180	208
TMPC0412HPV-6R8MG-Z02	6.80±20%	1.5	1.7	300	360
TMPC0412HPV-8R2MG-Z02	8.20±20%	1.4	1.6	313	376
TMPC0412HPV-100MG-Z02	10.0±20%	1.3	1.4	410	463
TMPC0412HPV-220MG-Z02	22.0±20%	0.8	1.0	950	1050

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0415HPV-Serise(G)-Z02

1. Features

1. Carbonyl powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. High reliability -Reliability test meet AEC-Q200
8. Operating temperature: -55~+125℃(Including self-temperature rise)

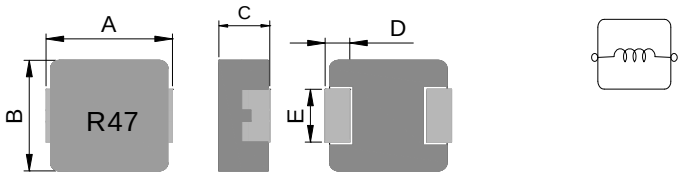
Halogen-free

RoHS

2. Applications

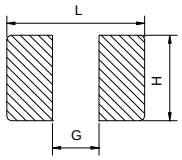
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0415HPV	4.45±0.25	4.06±0.25	1.3±0.2	0.76±0.3	2.0±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
5.2	2.2	2.3

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0415	HPV	-	R47	MG	-	Z02
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	H:Carbonyl Powder, P:PAD broaden. V: Vehicle
D: Inductance	R47=0.47uH
E: Inductance Tolerance	M=±20%
F: Control S/N	印字:黑色,單向印字

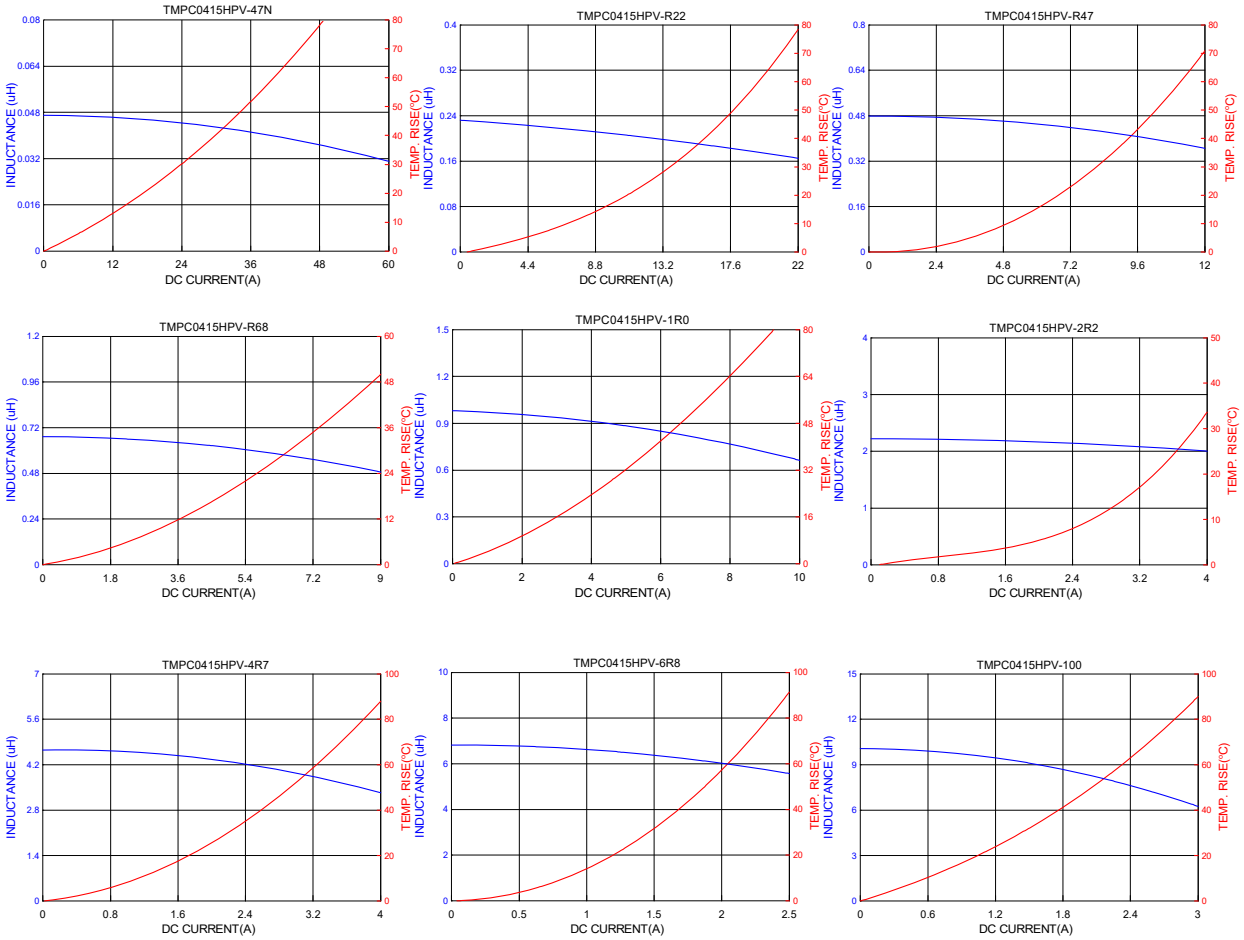
5. Specification

Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0415HPV-47NMG-Z02	0.047	20.5	48	2.1	2.5
TMPC0415HPV-R22MG-Z02	0.22	10	20	6.5	7.8
TMPC0415HPV-R47MG-Z02	0.47	8.0	11	15	19
TMPC0415HPV-R68MG-Z02	0.68	6.5	8.5	19	21.5
TMPC0415HPV-1R0MG-Z02	1.00	5.0	7.0	34	40
TMPC0415HPV-2R2MG-Z02	2.20	3.2	4.0	63	72
TMPC0415HPV-4R7MG-Z02	4.70	2.2	2.8	120	140
TMPC0415HPV-6R8MG-Z02	6.80	1.7	2.3	230	276
TMPC0415HPV-100MG-Z02	10.0	1.5	1.9	345	400

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0418HPV-Serise(G)-Z02

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200
8. Operating temperature: -55~+125℃(Including self - temperature rise)

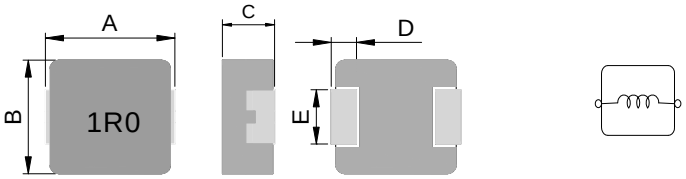
Halogen-free

RoHS

2. Applications

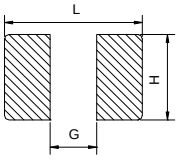
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0418HPV	4.45±0.25	4.06±0.25	1.6±0.2	0.76±0.30	2.0±0.20

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
5.2	2.2	2.3

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0418	HPV	-	1R0	MG	-	Z02
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — H:Carbonyl Powder, P:PAD broaden. V: Vehicle
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20%
F: Control S/N — 印字:黑色,單向印字

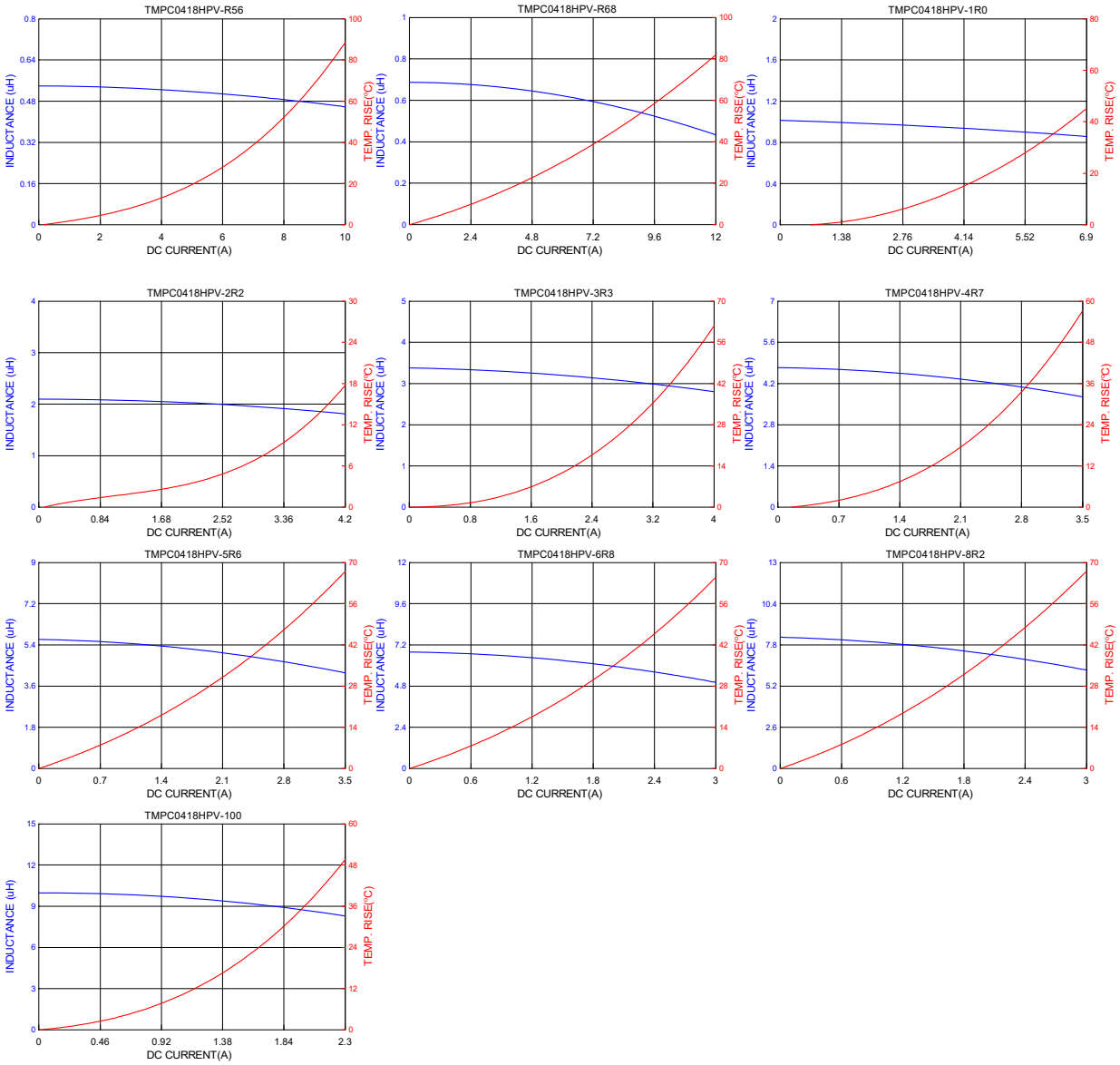
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0418HP-R56MG-Z02	0.56	6.0	9.0	16	20
TMPC0418HP-R68MG-Z02	0.68	5.8	8.5	18.5	22
TMPC0418HP-1R0MG-Z02	1.00	4.8	6.9	24.5	30
TMPC0418HP-2R2MG-Z02	2.20	3.5	4.2	39	45
TMPC0418HP-3R3MG-Z02	3.30	3.0	3.6	82	100
TMPC0418HP-4R7MG-Z02	4.70	2.3	3.0	106	130
TMPC0418HP-5R6MG-Z02	5.60	2.1	2.8	125	150
TMPC0418HP-6R8MG-Z02	6.80	1.95	2.6	150	180
TMPC0418HP-8R2MG-Z02	8.20	1.80	2.4	198	235
TMPC0418HP-100MG-Z02	10.0	1.65	2.1	220	265

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0502HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

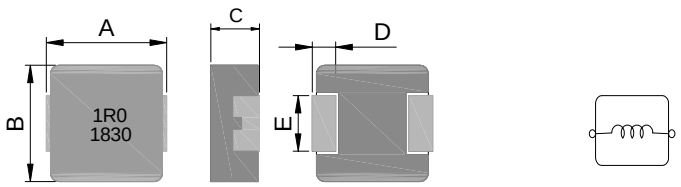
Halogen-free

RoHS

2. Applications

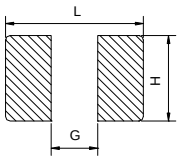
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0502HPV	5.7±0.3	5.2±0.2	1.8±0.2	1.1±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.2	2.2	2.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0502	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — HP:H:Carbonyl Powder. P:PAD broaden. V=Vehicle.
D: Inductance — 1R0=1.00uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色 1R0 及 D/C 1830 (18 年,30 週期)(依實際生產日期而定).

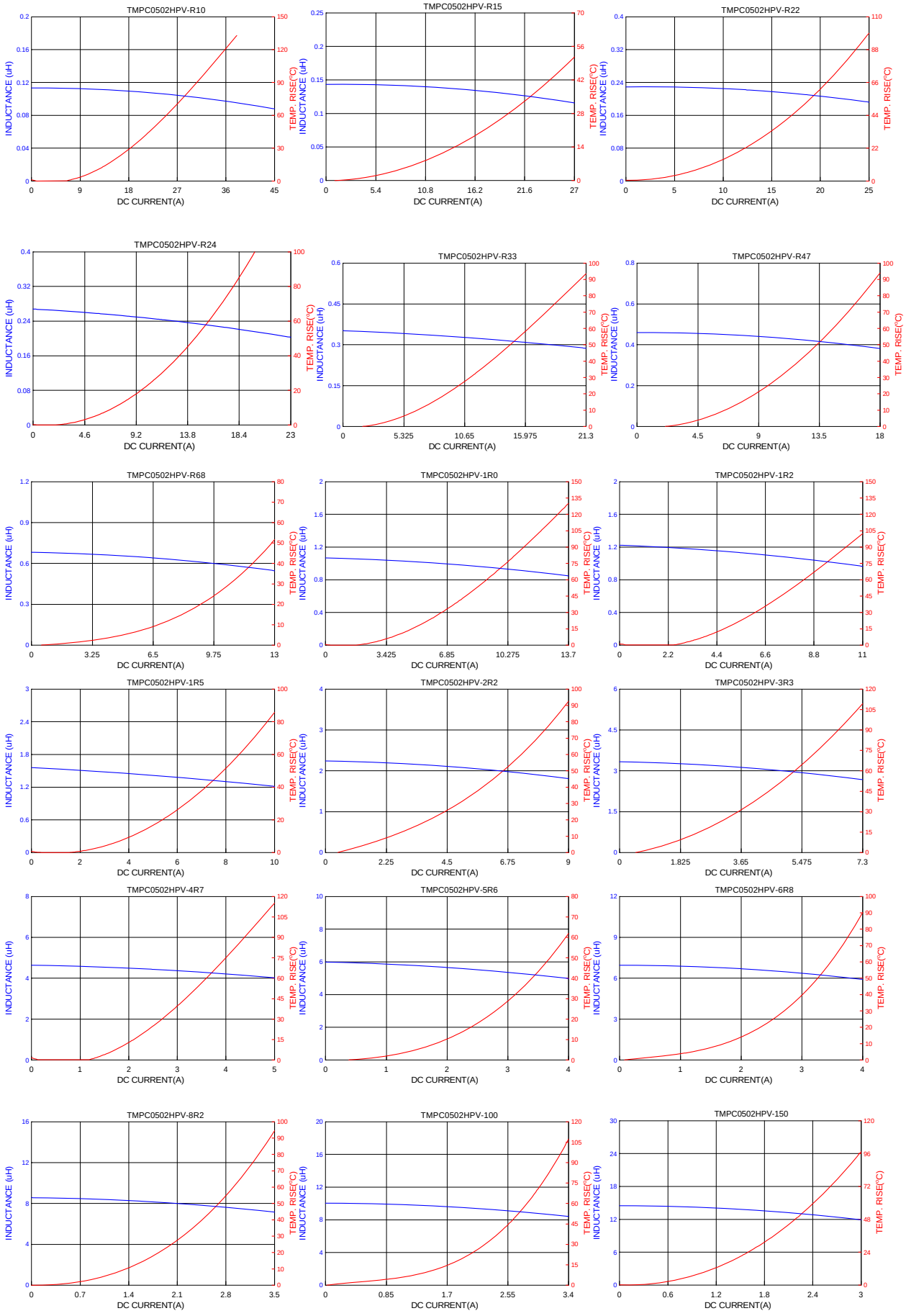
5. Specification

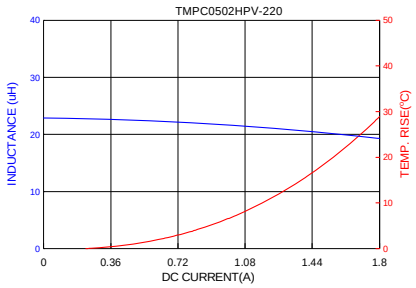
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0502HPV-R10YG-D	0.10±30%	18	45	3.6	4.0
TMPC0502HPV-R15YG-D	0.15±30%	16	27	3.8	4.6
TMPC0502HPV-R22MG-D	0.22	15	25	4.0	5.5
TMPC0502HPV-R24MG-D	0.24	13	23	6.0	7.0
TMPC0502HPV-R33MG-D	0.33	12	21.3	6.3	7.3
TMPC0502HPV-R47MG-D	0.47	11.5	18	7.3	8.6
TMPC0502HPV-R68MG-D	0.68	10	12.8	11	12.4
TMPC0502HPV-1R0MG-D	1.00	7.0	13.7	17.5	20
TMPC0502HPV-1R2MG-D	1.20	6.2	11.0	23	28
TMPC0502HPV-1R5MG-D	1.50	5.5	9.8	26.5	30.5
TMPC0502HPV-2R2MG-D	2.20	4.2	9.0	42.0	50.0
TMPC0502HPV-3R3MG-D	3.30	3.3	7.3	66.0	76
TMPC0502HPV-4R7MG-D	4.70	2.8	5.0	103	116
TMPC0502HPV-5R6MG-D	5.60	2.5	4.0	112	122
TMPC0502HPV-6R8MG-D	6.80	2.4	3.8	130	150
TMPC0502HPV-8R2MG-D	8.2	2.3	3.5	148	171
TMPC0502HPV-100MG-D	10.0	2.3	3.4	180	199
TMPC0502HPV-150MG-D	15.0	1.9	2.8	240	270
TMPC0502HPV-220MG-D	22	1.5	1.8	350	390

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requiremen

6. Typical Performance Curves




TMPC0502HPV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
10
20
30
40
50
0.36
0.72
1.08
1.44
1.8

SMD Power Inductor

TMPC0503HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

Halogen-free

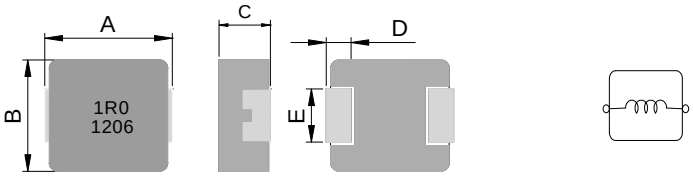
RoHS

2. Applications

Note PC power system，incl. IMVP-6

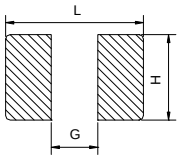
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0503HPV	5.7±0.3	5.2±0.2	2.8±0.2	1.1±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.5	2.5	2.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0503	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	HP:H:Carbonyl Powder,P:PAD broaden.
D: Inductance	R10=0.10uH
E: Inductance Tolerance	M=±20%
F: Control S/N	印字:黑色.1R0 及 D/C 1206 (12 年,06 週期)(依實際生產日期而定)

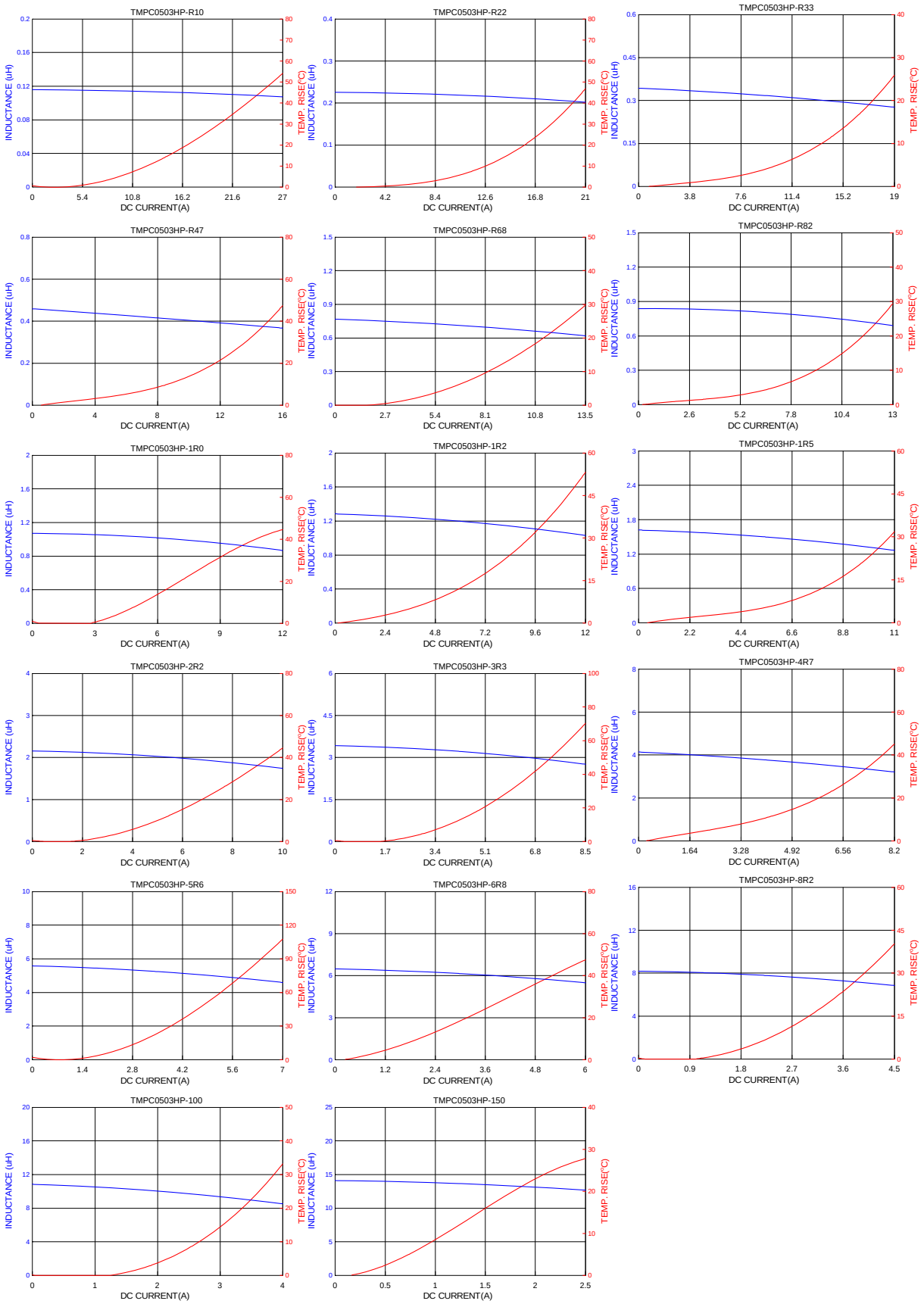
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0503HPV-R10YG-D	0.10±30%	23	27	2.5	3.0
TMPC0503HPV-R22MG-D	0.22	15.5	21	3.7	4.4
TMPC0503HPV-R33MG-D	0.33	13.7	19	4.5	5.2
TMPC0503HPV-R47MG-D	0.47	12.2	16	6.7	7.1
TMPC0503HPV-R68MG-D	0.68	10.2	13.5	8.2	9.0
TMPC0503HPV-R82MG-D	0.82	9.3	13	10.2	11.9
TMPC0503HPV-1R0MG-D	1.00	8.8	12	12.6	13.7
TMPC0503HPV-1R2MG-D	1.20	8.0	11.5	13	17
TMPC0503HPV-1R5MG-D	1.50	7.2	11	18.7	20.7
TMPC0503HPV-2R2MG-D	2.20	5.8	10	25	29.2
TMPC0503HPV-3R3MG-D	3.30	5.0	8.5	41	49.2
TMPC0503HPV-4R7MG-D	4.70	3.5	8.2	71	77.5
TMPC0503HPV-5R6MG-D	5.60	3.0	7.0	88.5	102
TMPC0503HPV-6R8MG-D	6.80	2.8	6.0	96	112
TMPC0503HPV-8R2MG-D	8.20	2.6	4.5	99	114
TMPC0503HPV-100MG-D	10.0	2.5	4.0	112	130
TMPC0503HPV-150MG-D	15.0	1.9	2.5	210	242

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0503HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

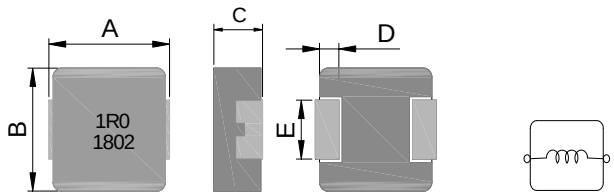
Halogen-free

RoHS

2. Applications

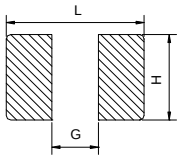
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0503HV	5.7±0.3	5.2±0.2	2.8±0.2	1.1±0.3	1.5±0.2

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.5	2.5	1.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0503	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	Carbonyl Powder, V:vehicle.
D: Inductance	1R0=1.00uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色 1R0 及 D/C 1802 (18 年,02 週期)(依實際生產日期而定).

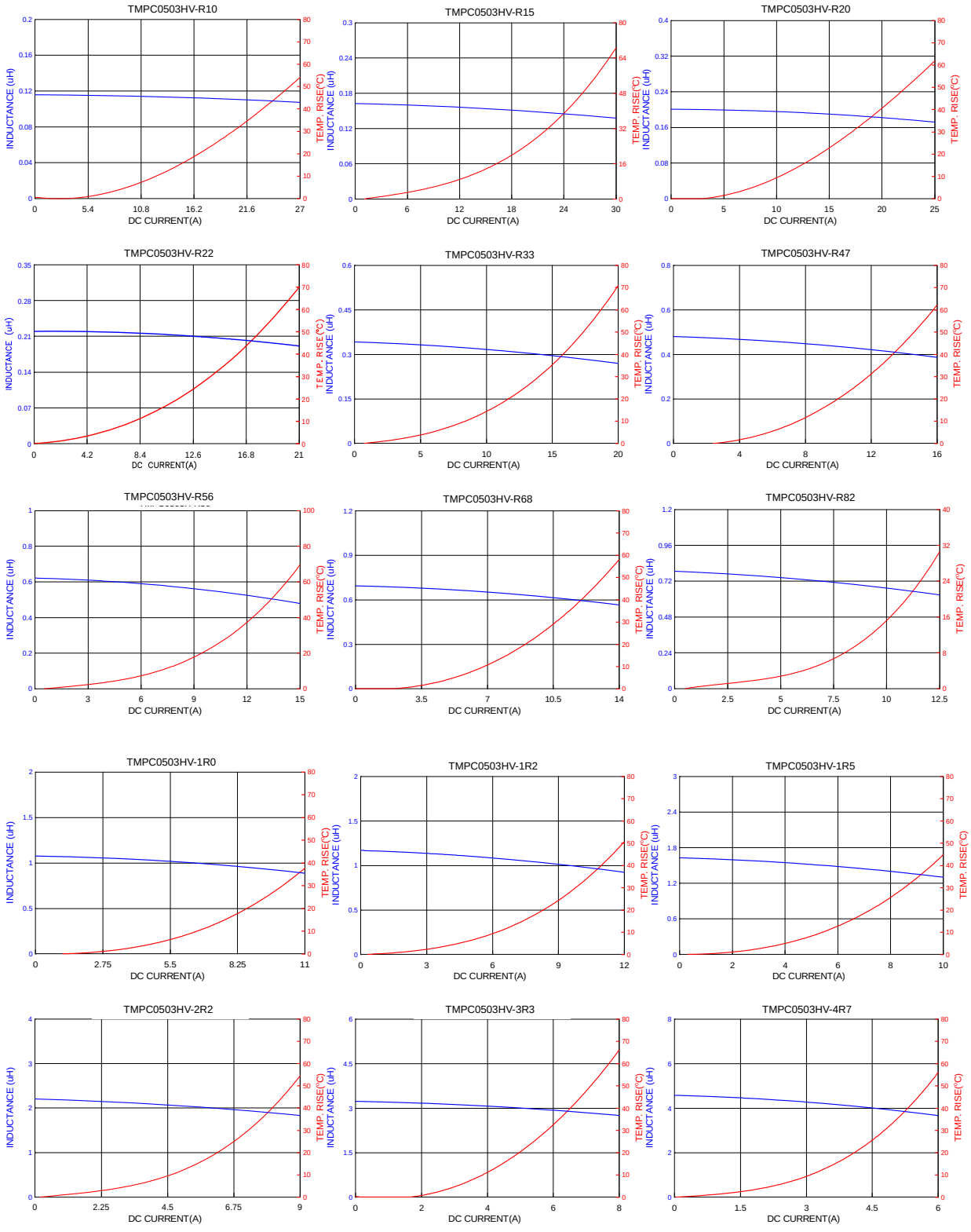
5. Specification

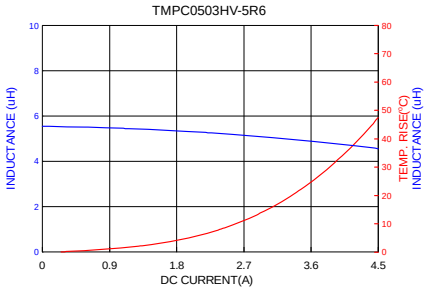
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0503HV-R10YG-D	0.10±30%	23	27	2.5	3.0
TMPC0503HV-R15YG-D	0.15±30%	18	30	2.3	2.7
TMPC0503HV-R20YG-D	0.20±30%	16	25	2.6	3.2
TMPC0503HV-R22YG-D	0.22±30%	15.5	21	3.7	4.4
TMPC0503HV-R33MG-D	0.33	14	18	4.3	5.0
TMPC0503HV-R47MG-D	0.47	12	16	6.4	7.4
TMPC0503HV-R56MG-D	0.56	10	15	8.0	10
TMPC0503HV-R68MG-D	0.68	8.5	14	10	12
TMPC0503HV-R82MG-D	0.82	8.0	12.5	11.5	13
TMPC0503HV-1R0MG-D	1.00	7.0	11	13	14
TMPC0503HV-1R2MG-D	1.20	6.5	11	14	16
TMPC0503HV-1R5MG-D	1.50	6.0	10	16	25
TMPC0503HV-2R2MG-D	2.20	5.5	9.0	25	35
TMPC0503HV-3R3MG-D	3.30	5.0	8.0	32	38
TMPC0503HV-4R7MG-D	4.70	4.6	6.0	50	53
TMPC0503HV-5R6MG-D	5.60	4.25	4.50	55	63
TMPC0503HV-6R8MG-D	6.80	4.0	4.3	68	76.2
TMPC0503HV-100MG-D	10.0	2.75	3.50	110	128
TMPC0503HV-150MG-D	15.0	2.1	2.6	165	190
TMPC0503HV-180MG-D	18.0	2.0	2.3	195	230
TMPC0503HV-220MG-D	22.0	1.9	1.7	220	250
TMPC0503HV-330MG-D	33.0	1.6	1.6	380	440

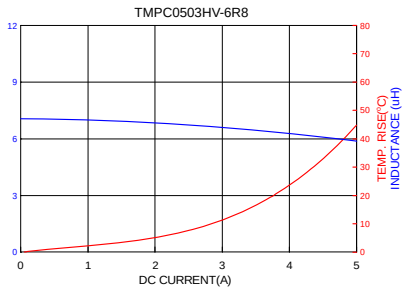
Note:

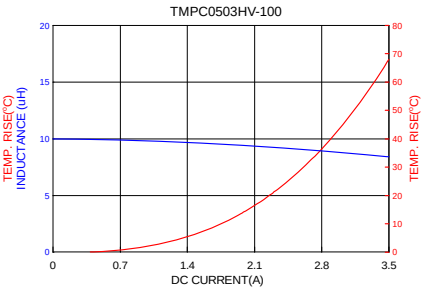
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

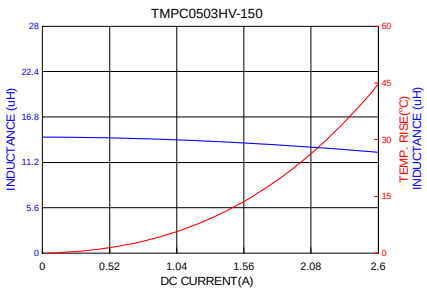
6. Typical Performance Curves

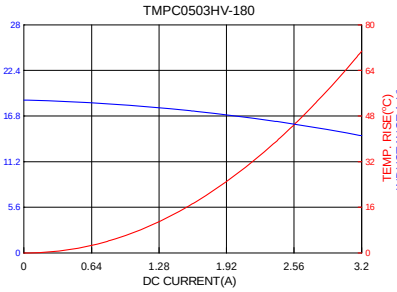


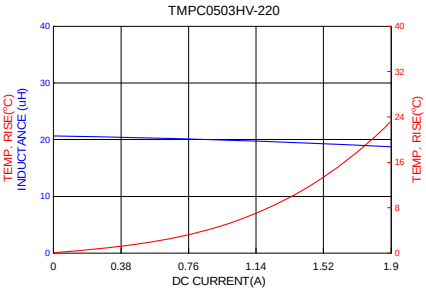

TMPC0503HV-5R6
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

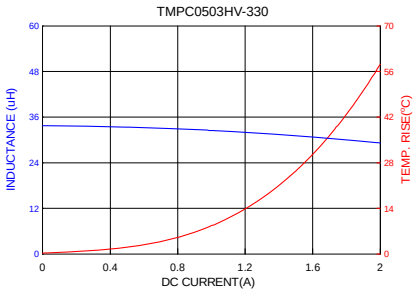

TMPC0503HV-6R8
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0503HV-100
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0503HV-150
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0503HV-180
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0503HV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0503HV-330
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC0512HPV-Serise(G)-D

1. Features

1. Carbonyl powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. High reliability -Reliability test meet AEC-Q200
8. Operating temperature: -55~+125℃(Including self-temperature rise)

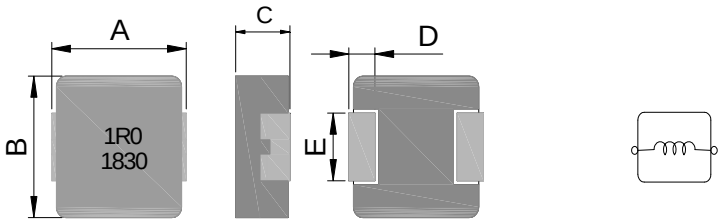
Halogen-free

RoHS

2. Applications

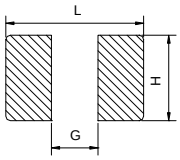
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0512HPV	5.7±0.3	5.2±0.2	1.0±0.2	1.1±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.2	2.2	2.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0512	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — H: Magnetic metal powder, P:PAD broaden. V: vehicle.
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色 1R0 及 D/C 1830 (18 年,30 週期)(依實際生產日期而定).

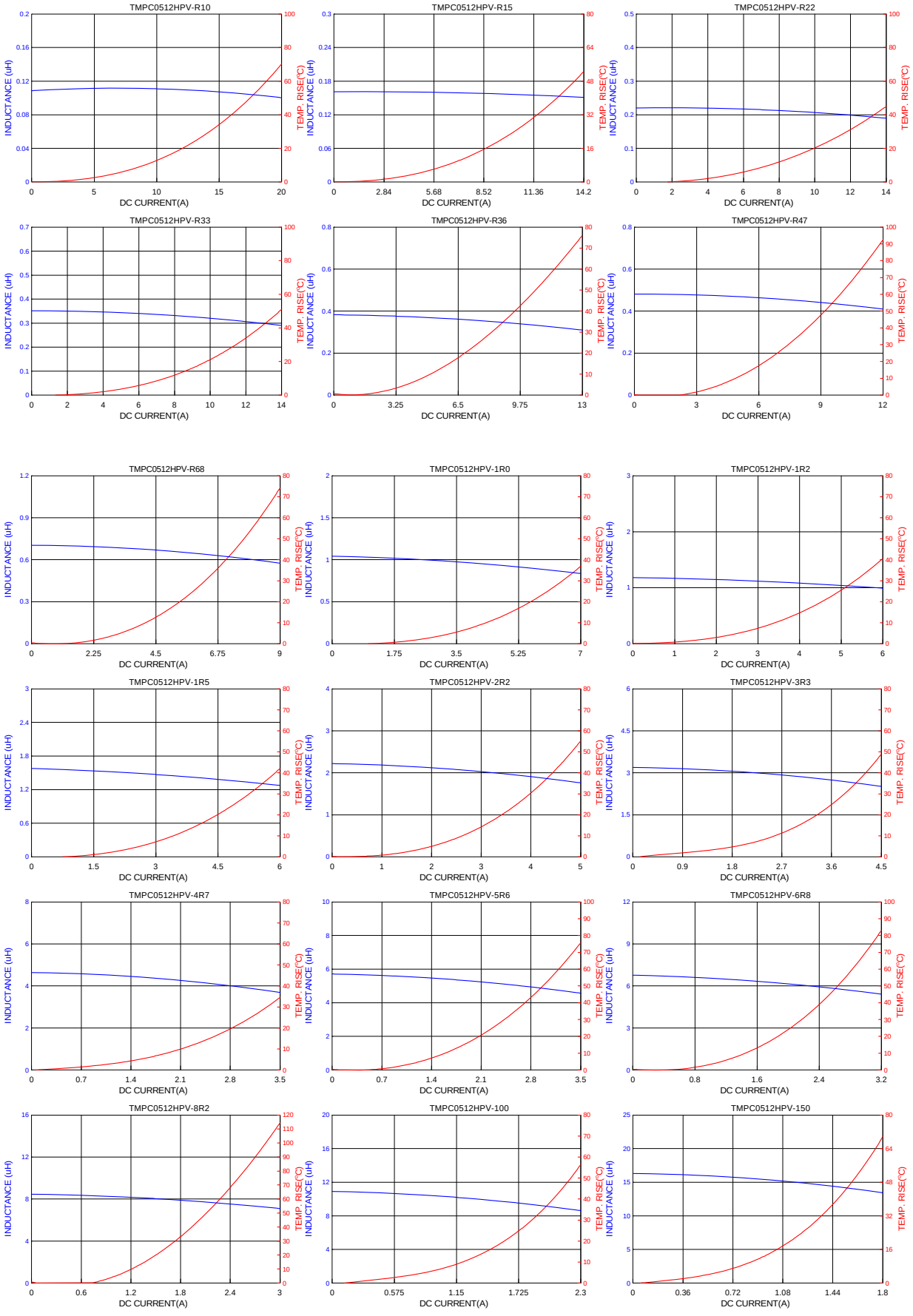
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0512HPV-R10YG-D	0.10±30%	14	14.5	4.3	5.2
TMPC0512HPV-R15YG-D	0.15±30%	12	14.2	4.5	6.0
TMPC0512HPV-R22YG-D	0.22±30%	10.7	14.0	5.5	6.7
TMPC0512HPV-R33MG-D	0.33	8.5	13.5	7.8	9.4
TMPC0512HPV-R36MG-D	0.36	8.0	13	10	11.5
TMPC0512HPV-R47MG-D	0.47	7.0	11	13.6	15.8
TMPC0512HPV-R68MG-D	0.68	6.0	9.0	21.5	24.5
TMPC0512HPV-1R0MG-D	1.00	5.0	6.0	26	30
TMPC0512HPV-1R2MG-D	1.20	4.5	5.5	33	40
TMPC0512HPV-1R5MG-D	1.50	4.0	5.0	38	44
TMPC0512HPV-2R2MG-D	2.20	3.5	4.0	65	75
TMPC0512HPV-3R3MG-D	3.30	3.0	3.8	75	86
TMPC0512HPV-4R7MG-D	4.70	2.5	3.2	100	115
TMPC0512HPV-5R6MG-D	5.60	2.4	3.2	175	201
TMPC0512HPV-6R8MG-D	6.80	2.0	3.0	193	222
TMPC0512HPV-8R2MG-D	8.20	1.7	2.8	327	378
TMPC0512HPV-100MG-D	10.0	1.5	1.8	335	385
TMPC0512HPV-150MG-D	15.0	1.3	1.6	410	470

Note:

1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃.
5. Saturation Current (Isat) will cause L0 to drop approximately 30%
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0515HPV-Series(G)-D

1. Features

1. Carbonyl powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. High reliability -Reliability test meet AEC-Q200
8. Operating temperature: -55~+125℃(Including self-temperature rise)

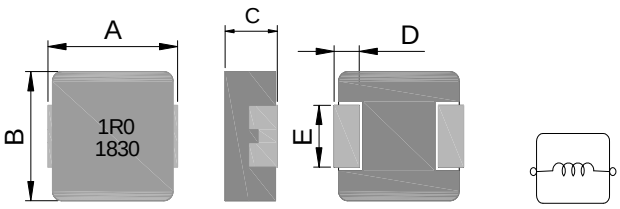
Halogen-free

RoHS

2. Applications

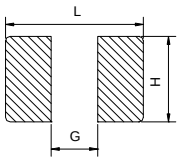
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0515HPV	5.7±0.3	5.2±0.2	1.3±0.2	1.1±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.2	2.2	2.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0515	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	Magnetic metal powder P:PAD broaden, V:vehicle.
D: Inductance	1R0=1.0uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色 1R0 及 D/C 1830 (18 年,30 週期)(依實際生產日期而定).

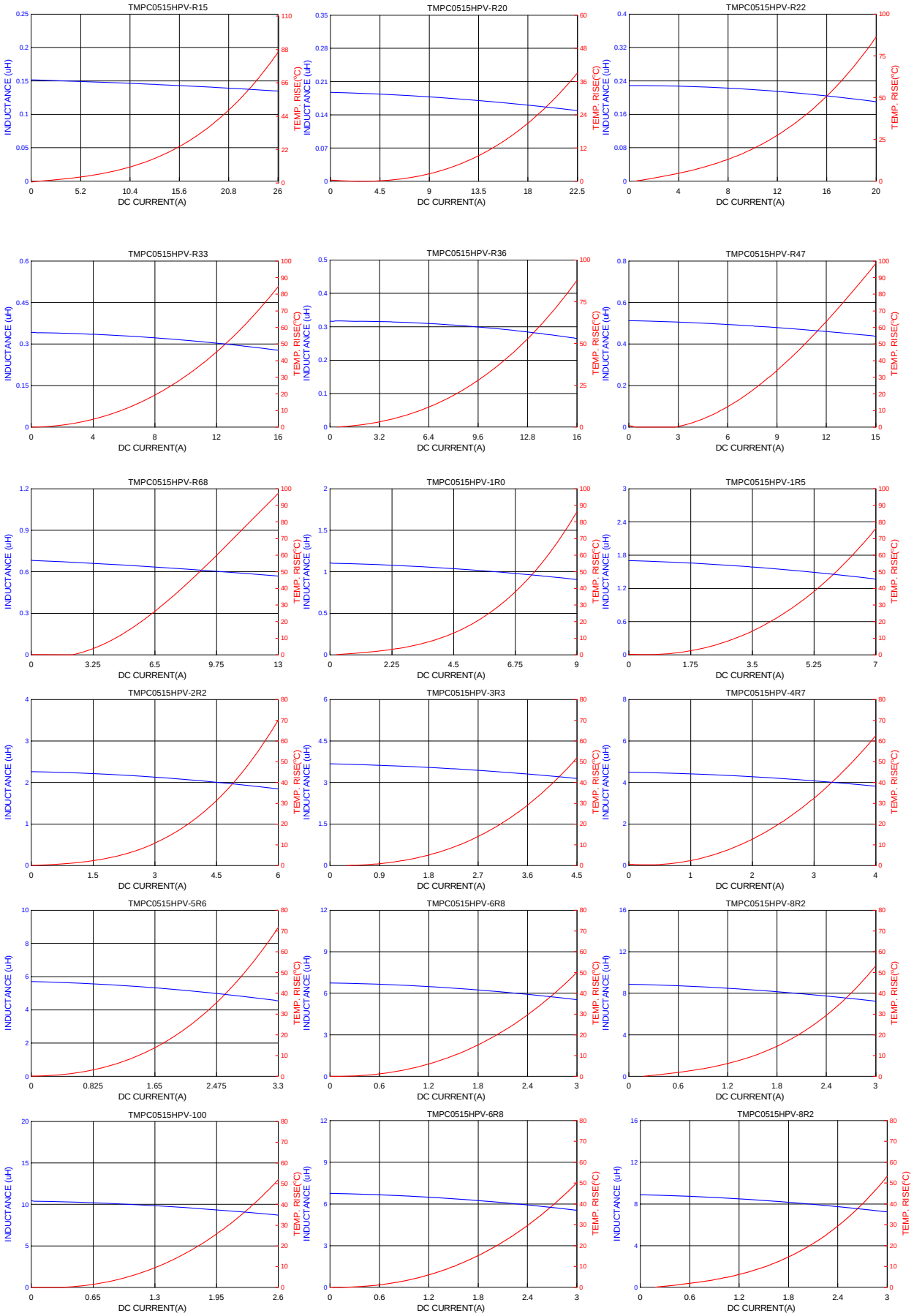
5. Specification

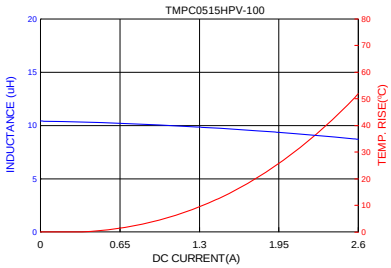
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0515HPV-R15YG-D	0.15±30%	16	25	3.6	4.1
TMPC0515HPV-R20YG-D	0.20±30%	15	22.5	3.8	4.2
TMPC0515HPV-R22YG-D	0.22±30%	12	20	5.0	6.5
TMPC0515HPV-R33MG-D	0.33	9.0	16	8.5	9.8
TMPC0515HPV-R36MG-D	0.36	8.5	15.5	10	12.5
TMPC0515HPV-R47MG-D	0.47	8.0	15	12.0	13.8
TMPC0515HPV-R68MG-D	0.68	7.0	13	14	16.2
TMPC0515HPV-1R0MG-D	1.00	6.0	9.0	22	25.3
TMPC0515HPV-1R5MG-D	1.50	4.5	7.0	39	45
TMPC0515HPV-2R2MG-D	2.20	4.0	6.0	45	52
TMPC0515HPV-3R3MG-D	3.30	3.2	4.5	78	90
TMPC0515HPV-4R7MG-D	4.70	2.7	4.0	103	118
TMPC0515HPV-5R6MG-D	5.60	2.4	3.2	126	152
TMPC0515HPV-6R8MG-D	6.80	2.3	3.0	142	171
TMPC0515HPV-8R2MG-D	8.20	2.1	2.6	175	210
TMPC0515HPV-100MG-D	10.0	2.0	2.3	210	235
TMPC0515HPV-220MG-D	22.0	1.2	1.7	405	466

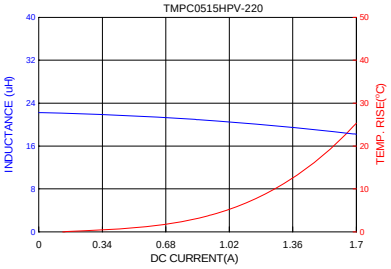
Note:

1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 20%
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC0515HPV-100
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0
5
10
15
20
0
10
20
30
40
50
60
70
80
0
0.65
1.3
1.95
2.6


TMPC0515HPV-220
INDUCTANCE (uH)
TEMP. RISE(℃)
DC CURRENT(A)
0
8
16
24
32
40
0
10
20
30
40
50
0
0.34
0.68
1.02
1.36
1.7

SMD Power Inductor

TMPC0518HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test meet AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

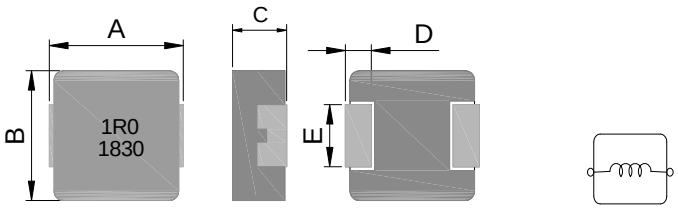
Halogen-free

RoHS

2. Applications

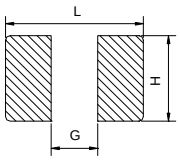
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0518HPV	5.7±0.3	5.2±0.2	1.6±0.2	1.1±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
6.2	2.2	2.8

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

4. Part Numbering

TMPC	0518	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — H:Carbonyl Powder,P:PAD broaden, V: Vehicle
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色 1R0 及 D/C 1830(18 年,30 週期)(依實際生產日期而定).

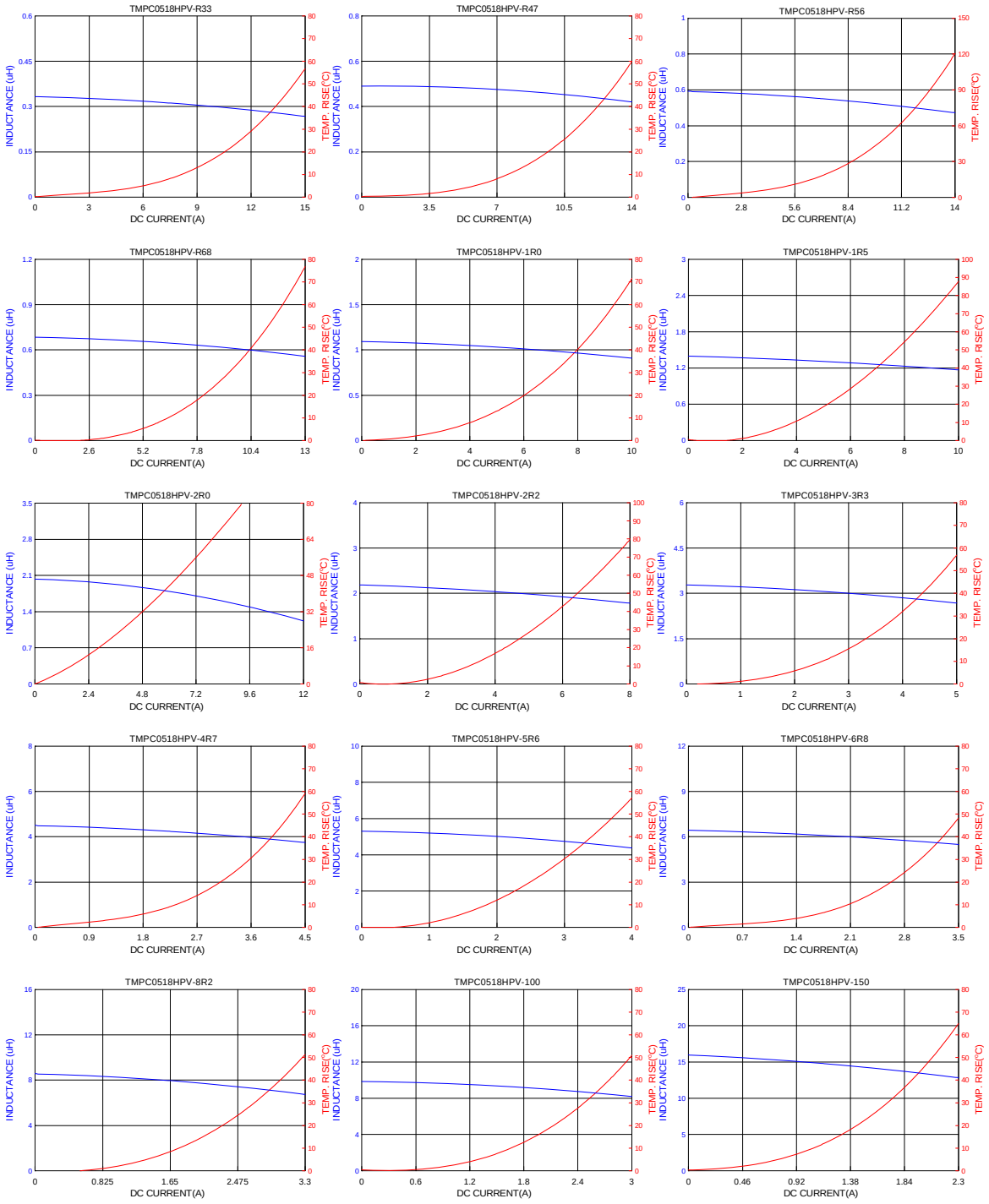
5. Specification

Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR(mΩ) Typ.@25℃	DCR(mΩ) Max.@25℃
TMPC0518HPV-R33MG-D	0.33	11	15	7.5	8.6
TMPC0518HPV-R47MG-D	0.47	10	14	9.8	11.3
TMPC0518HPV-R56MG-D	0.56	9.5	13.5	11	13
TMPC0518HPV-R68MG-D	0.68	9	13	12.4	14.3
TMPC0518HPV-1R0MG-D	1.0	6.8	10	18.2	21
TMPC0518HPV-1R5MG-D	1.5	6.0	9.0	26	30
TMPC0518HPV-2R0MG-D	2.0	5.0	8.0	35	42
TMPC0518HPV-2R2MG-D	2.2	4.5	7.5	42	48.3
TMPC0518HPV-3R3MG-D	3.3	3.5	5.0	60	69
TMPC0518HPV-4R7MG-D	4.7	3.0	4.5	85	98
TMPC0518HPV-5R6MG-D	5.6	2.5	4.0	110	127
TMPC0518HPV-6R8MG-D	6.8	2.4	3.5	118	137
TMPC0518HPV-8R2MG-D	8.2	2.3	3.0	143	165
TMPC0518HPV-100MG-D	10.0	2.3	2.8	165	190
TMPC0518HPV-150MG-D	15.0	1.7	2.3	275	318

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0602HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature -55~+125℃(Including self-temperature rise)

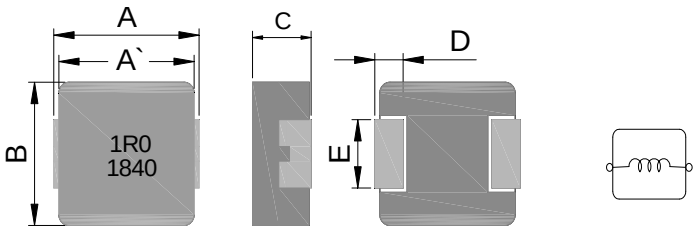
Halogen-free

RoHS

2. Applications

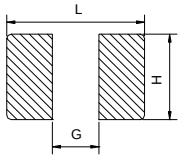
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	A`(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0602HV	7.0±0.3	6.6±0.3	6.6±0.3	1.8±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.7	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0602	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder. V: Vehicle
D: Inductance — 1R0=1.00uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色 1R0 及 D/C 1840(18 年,40 週期)(依實際生產日期而定).

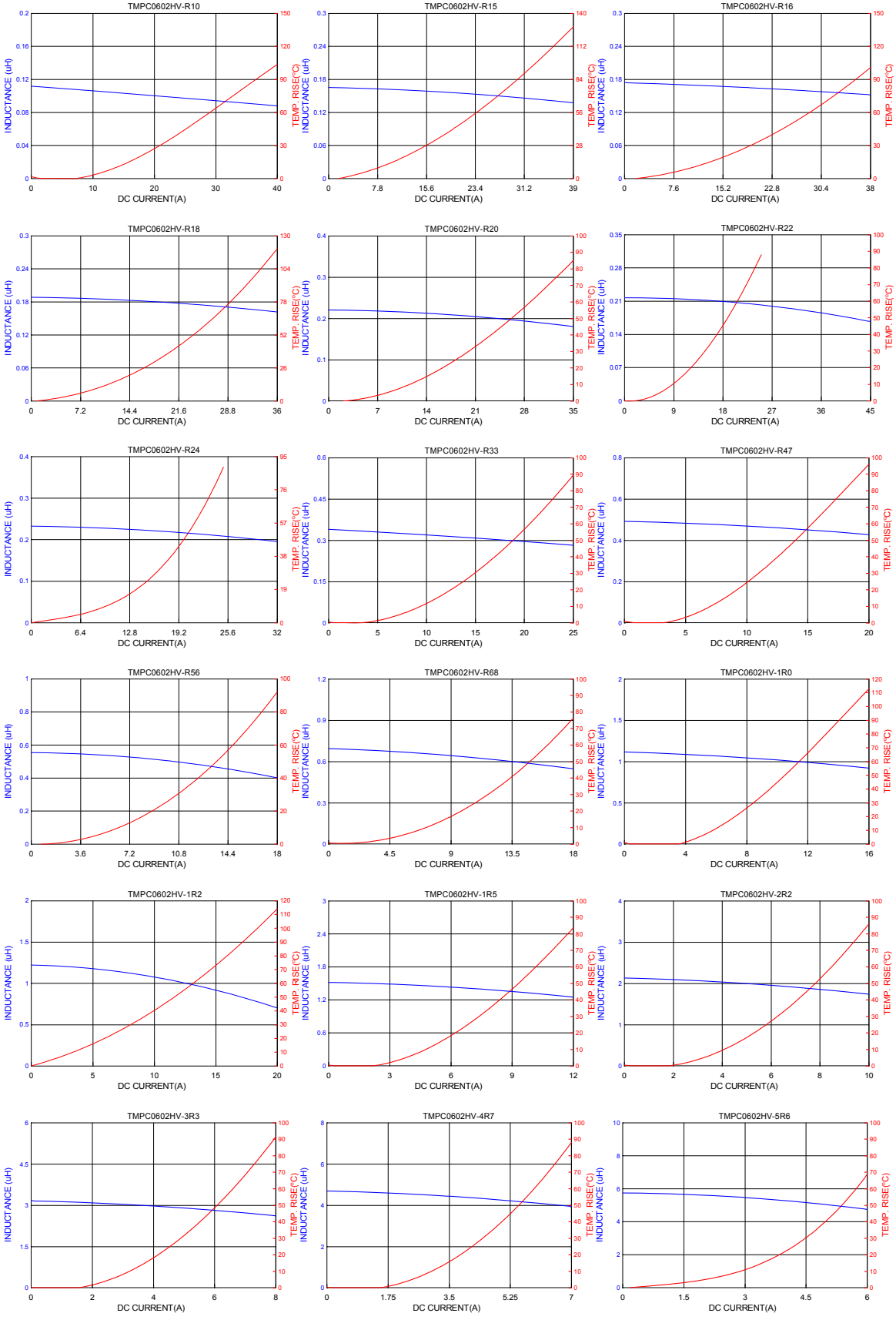
5. Specification

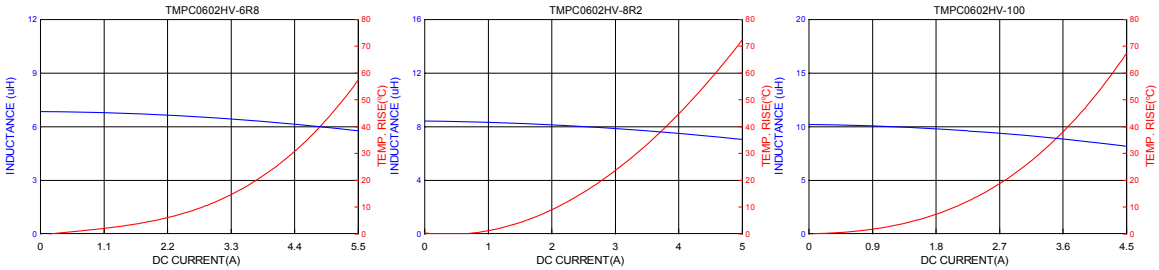
Part Number	Inductance L0 (uH) @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ.@25℃	DCR (mΩ) Max.@25℃
TMPC0602HV-R10YG-D	0.10±30%	21	40	2.0	2.4
TMPC0602HV-R15YG-D	0.15±30%	18	39	2.3	2.7
TMPC0602HV-R16YG-D	0.16±30%	18	38	2.3	2.7
TMPC0602HV-R18YG-D	0.18±30%	18	36	2.4	2.9
TMPC0602HV-R20YG-D	0.20±30%	18	35	2.5	3.0
TMPC0602HV-R22YG-D	0.22±30%	15	32	3.5	4.0
TMPC0602HV-R24MG-D	0.24±20%	14.5	32	3.6	4.3
TMPC0602HV-R33MG-D	0.33±20%	14	25	4.5	5.0
TMPC0602HV-R47MG-D	0.47±20%	11.7	20	7.1	8.3
TMPC0602HV-R56MG-D	0.56±20%	11.0	18	7.9	9.3
TMPC0602HV-R68MG-D	0.68±20%	10.5	16	8.3	10
TMPC0602HV-1R0MG-D	1.00±20%	8.0	14	16.5	18
TMPC0602HV-1R5MG-D	1.50±20%	7	12	23	27
TMPC0602HV-2R2MG-D	2.20±20%	6.0	10	32	37
TMPC0602HV-3R3MG-D	3.30±20%	5.0	8.0	43	48
TMPC0602HV-4R7MG-D	4.70±20%	4.5	7.0	53	60
TMPC0602HV-5R6MG-D	5.60±20%	4.0	6.0	59	68
TMPC0602HV-6R8MG-D	6.80±20%	4.0	5.5	63	73
TMPC0602HV-8R2MG-D	8.20±20%	3.2	5.0	101	116
TMPC0602HV-100MG-D	10.0±20%	2.8	4.0	134	154
TMPC0602HV-150MG-D	15.0±20%	2.1	3.3	190	210
TMPC0602HV-220MG-D	22.0±20%	1.5	2.5	236	280

Note:

1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40℃ .
5. Saturation Current (Isat) will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

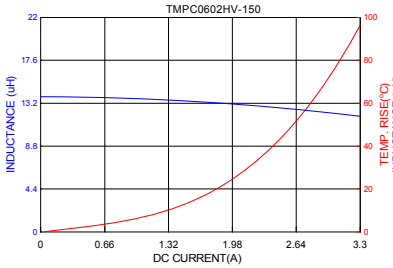
6. Typical Performance Curves

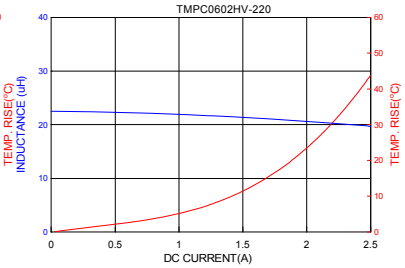



TMPC0602HV-6R8
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 1.1 2.2 3.3 4.4 5.5
0 3 6 9 12
0 10 20 30 40 50 60 70 80

TMPC0602HV-8R2
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 1 2 3 4 5
0 4 8 12 16
0 10 20 30 40 50 60 70 80

TMPC0602HV-100
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 0.9 1.8 2.7 3.6 4.5
0 5 10 15 20
0 10 20 30 40 50 60 70 80


TMPC0602HV-150
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 0.66 1.32 1.98 2.64 3.3
0 4.4 8.8 13.2 17.6 22
0 20 40 60 80 100


TMPC0602HV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0 0.5 1 1.5 2 2.5
0 10 20 30 40
0 10 20 30 40 50 60

SMD Power Inductor

TMPC0603HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature:-55~+125℃(Including self-temperature rise)

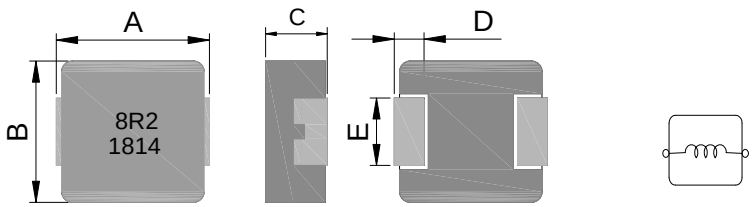
Halogen-free

RoHS

2. Applications

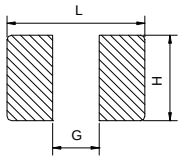
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0603HV	7.3±0.3	6.6±0.3	2.8±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
8.4	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0603	HV	-	8R2	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	Carbonyl Powder, V:vehicle.
D: Inductance	8R2=8.20uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色. 8R2 及 D/C 1814(18 年,14 週期)(依實際生產日期而定)

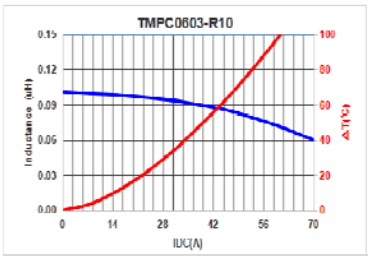
5. Specification

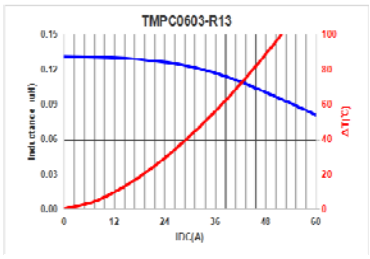
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0603HV-R10YG-D	0.10±30%	32.5	60.0	1.2	1.7
TMPC0603HV-R13YG-D	0.13±30%	27.6	50	1.3	1.8
TMPC0603HV-R15YG-D	0.15±30%	27	45	1.5	1.9
TMPC0603HV-R16YG-D	0.16±30%	27	45	1.5	1.9
TMPC0603HV-R18YG-D	0.18±30%	25.0	43.0	1.7	2.3
TMPC0603HV-R19YG-D	0.19±30%	24.0	41.0	1.8	2.5
TMPC0603HV-R20YG-D	0.20±30%	24.0	41.0	1.8	2.5
TMPC0603HV-R22YG-D	0.22±30%	23.0	40.0	2.1	2.8
TMPC0603HV-R25MG-D	0.25	21.0	39.0	3.3	3.5
TMPC0603HV-R30MG-D	0.30	21.0	35.0	3.2	3.8
TMPC0603HV-R33MG-D	0.33	20.0	32.0	3.5	3.9
TMPC0603HV-R36MG-D	0.36	19.0	32.0	3.6	4.2
TMPC0603HV-R40MG-D	0.40	18.0	27.5	3.71	4.1
TMPC0603HV-R47MG-D	0.47	17.5	26.0	4.0	4.2
TMPC0603HV-R56MG-D	0.56	16.5	25.5	4.7	5.0
TMPC0603HV-R60MG-D	0.60	16	25.5	4.7	5.2
TMPC0603HV-R68MG-D	0.68	15.5	25.0	4.8	5.5
TMPC0603HV-R75MG-D	0.75	14.5	24.5	5.5	6.6
TMPC0603HV-R82MG-D	0.82	13.0	24.0	6.7	8.0
TMPC0603HV-R90MG-D	0.90	11.0	22.0	8.3	10
TMPC0603HV-1R0MG-D	1.00	11.0	22.0	8.3	10
TMPC0603HV-1R2MG-D	1.20	10.0	20.0	10	12
TMPC0603HV-1R5MG-D	1.50	9.0	18.0	13	15
TMPC0603HV-1R8MG-D	1.80	8.5	16.0	14	17
TMPC0603HV-2R0MG-D	2.00	8.2	15	16	19
TMPC0603HV-2R2MG-D	2.20	8.0	14.0	18	20
TMPC0603HV-2R5MG-D	2.50	7.0	13.0	20	22
TMPC0603HV-2R7MG-D	2.70	7.0	13.0	24	27
TMPC0603HV-3R3MG-D	3.30	6.0	13.5	28	30
TMPC0603HV-4R7MG-D	4.70	5.5	10.0	37	40
TMPC0603HV-5R6MG-D	5.60	5.0	9.0	43	48
TMPC0603HV-6R8MG-D	6.80	4.5	8.0	54	60
TMPC0603HV-8R2MG-D	8.20	4.0	7.5	64	68
TMPC0603HV-100MG-D	10.0	3.5	6.0	75	85
TMPC0603HV-120MG-D	12.0	3.3	5.5	81	93
TMPC0603HV-150MG-D	15.0	3.0	4.0	107	123
TMPC0603HV-180MG-D	18.0	2.5	4.0	140	160
TMPC0603HV-220MG-D	22.0	2.0	3.5	165	190
TMPC0603HV-330MG-D	33.0	2.0	2.5	200	240
TMPC0603HV-470MG-D	47.0	1.75	2.0	302	363

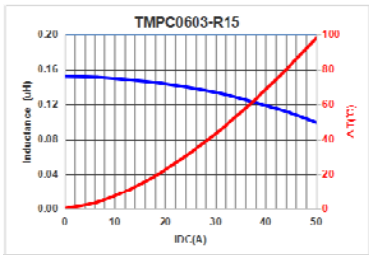
Note:

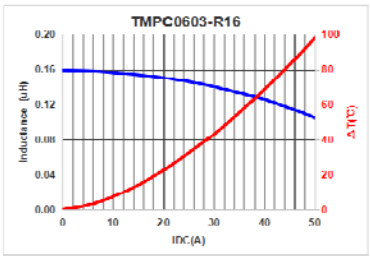
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

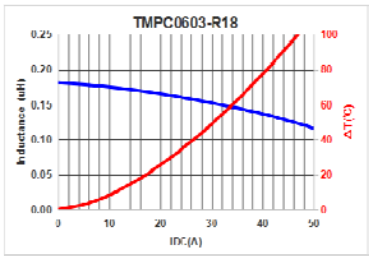
6. Typical Performance Curves

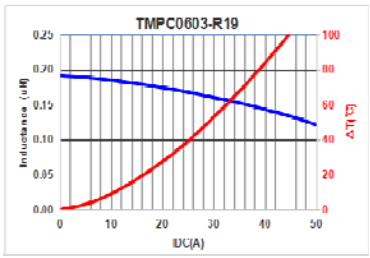


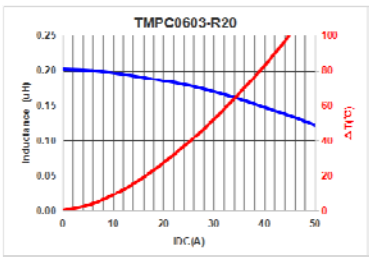


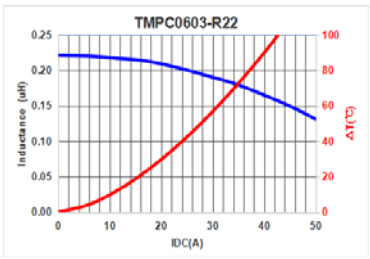


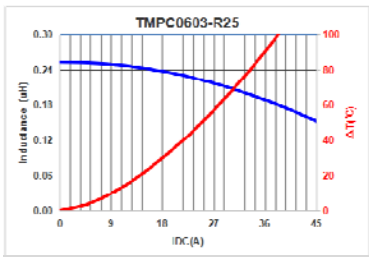


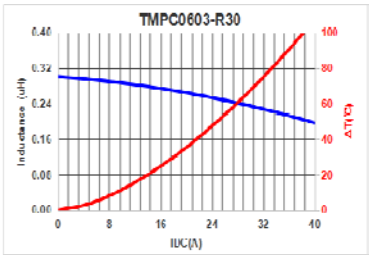


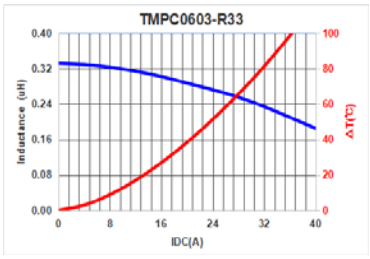


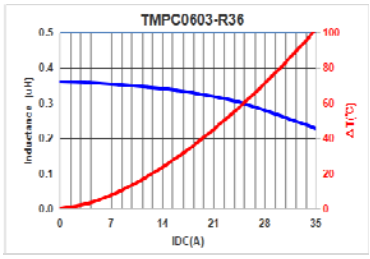


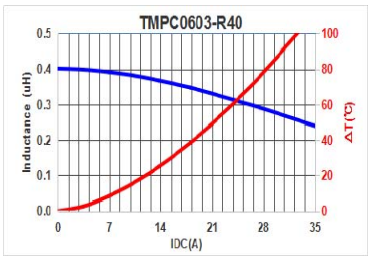


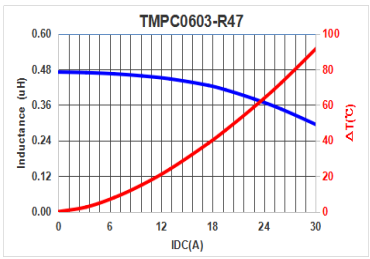


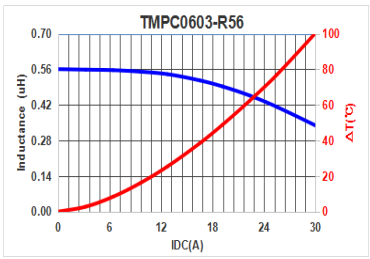


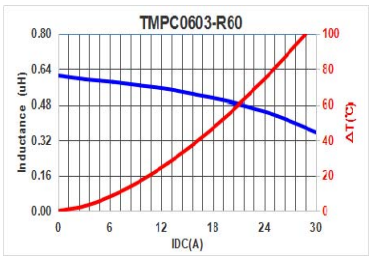


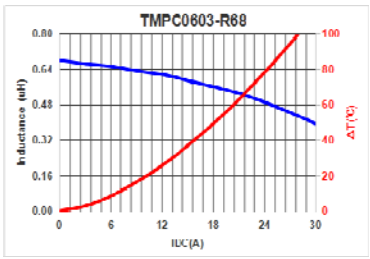


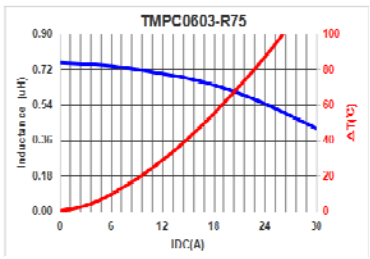


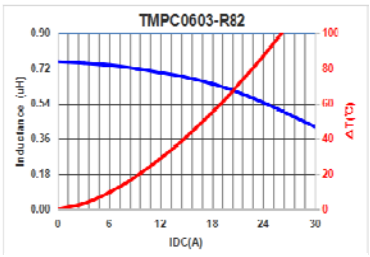


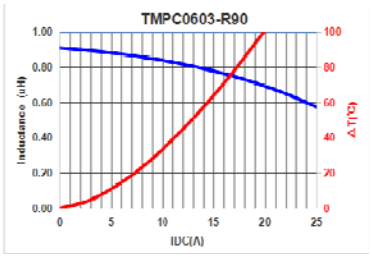


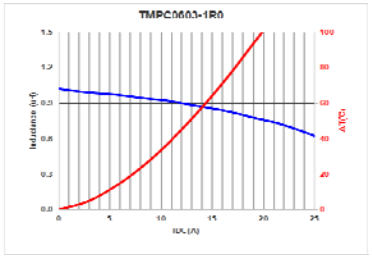


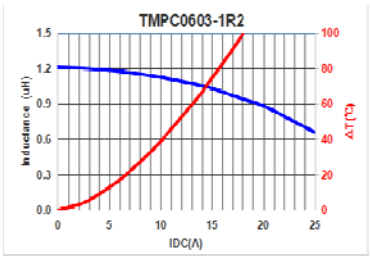


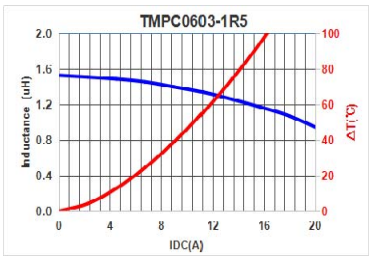


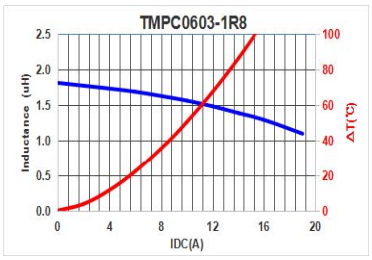

TMPC0603-R82
Inductance (uH)
ΔT(℃)
IDC(A)

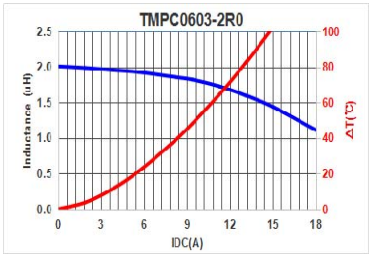

TMPC0603-R90
Inductance (uH)
ΔT(℃)
IDC(A)

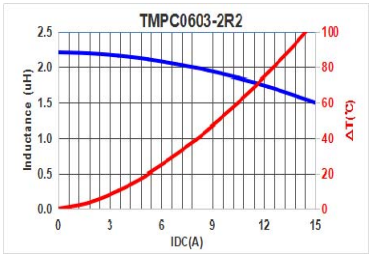

TMPC0603-1R0
Inductance (uH)
ΔT(℃)
IDC(A)

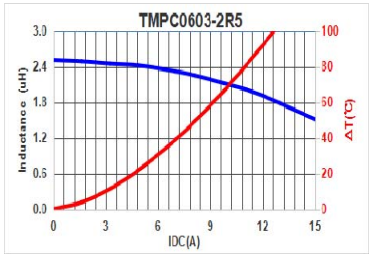

TMPC0603-1R2
Inductance (uH)
ΔT(℃)
IDC(A)

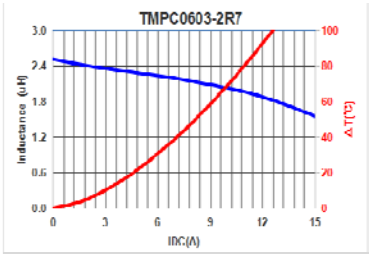

TMPC0603-1R5
Inductance (uH)
ΔT(℃)
IDC(A)

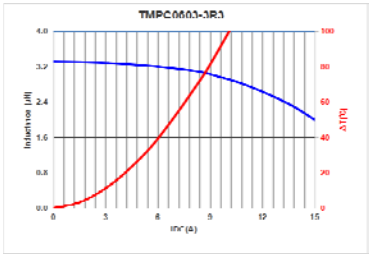

TMPC0603-1R8
Inductance (uH)
ΔT(℃)
IDC(A)

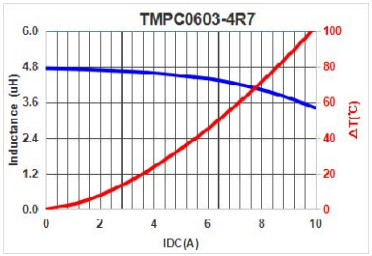

TMPC0603-2R0
Inductance (uH)
ΔT(℃)
IDC(A)

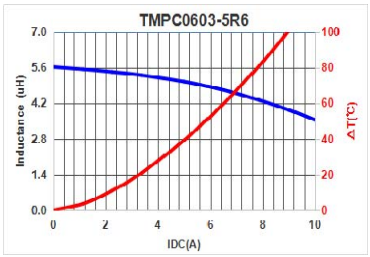

TMPC0603-2R2
Inductance (uH)
ΔT(℃)
IDC(A)

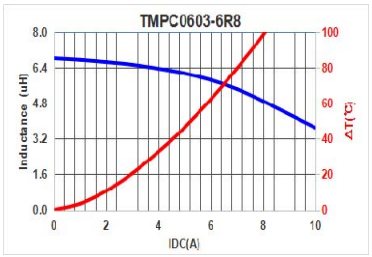

TMPC0603-2R5
Inductance (uH)
ΔT(℃)
IDC(A)

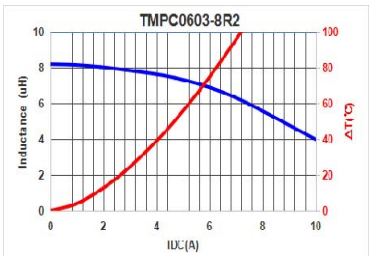

TMPC0603-2R7
Inductance (uH)
ΔT(℃)
IDC(A)

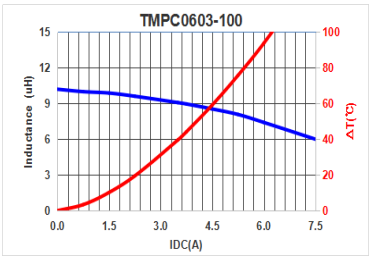


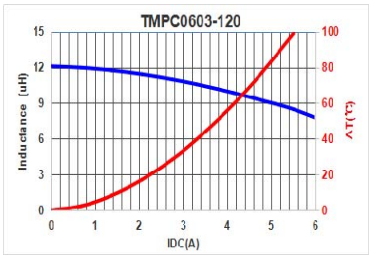

TMPC0603-4R7
Inductance (uH)
ΔT(℃)
IDC(A)

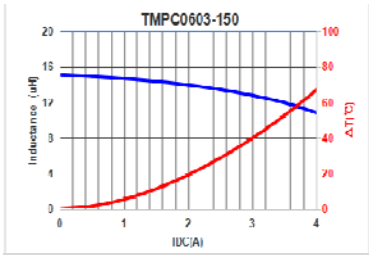

TMPC0603-5R6
Inductance (uH)
ΔT(℃)
IDC(A)

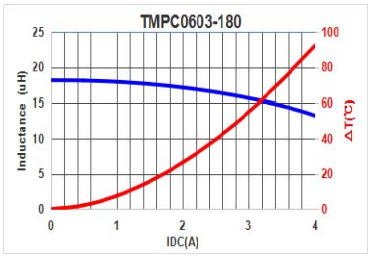

TMPC0603-6R8
Inductance (uH)
ΔT(℃)
IDC(A)

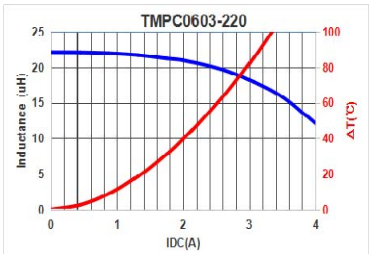

TMPC0603-8R2
Inductance (uH)
ΔT(℃)
IDC(A)

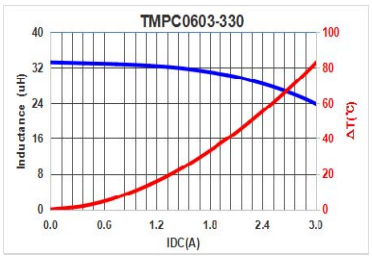

TMPC0603-100
Inductance (uH)
ΔT(℃)
IDC(A)

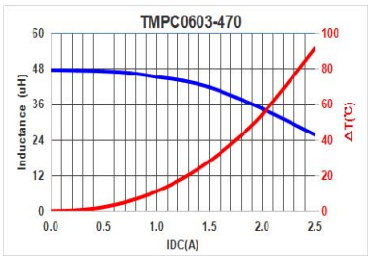

TMPC0603-120
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC0603-150
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC0603-180
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC0603-220
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC0603-330
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC0603-470
Inductance (uH)
ΔT(℃)
IDC(A)

SMD Power Inductor

TMPC0604HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

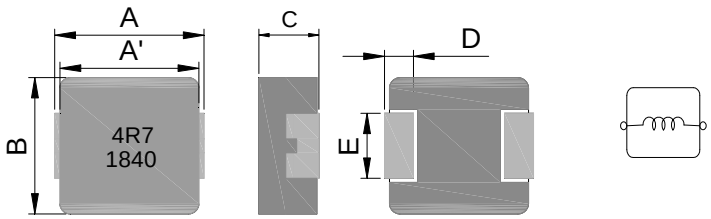
Halogen-free

RoHS

2. Applications

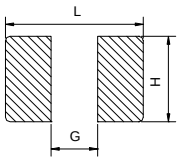
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	A'(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0604HV	7.3±0.3	6.7±0.3	6.6±0.3	3.8±0.2	1.8±0.30	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
8.4	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0604	HV	-	4R7	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder V:vehicle.
D: Inductance — 4R7=4.70uH
E: Inductance Tolerance — M=±20%,Y=±30%
F: 印 D/C — 印字:黑色,4R7 及 D/C 1840(18 年,40 週期)(依實際生產日期而定)

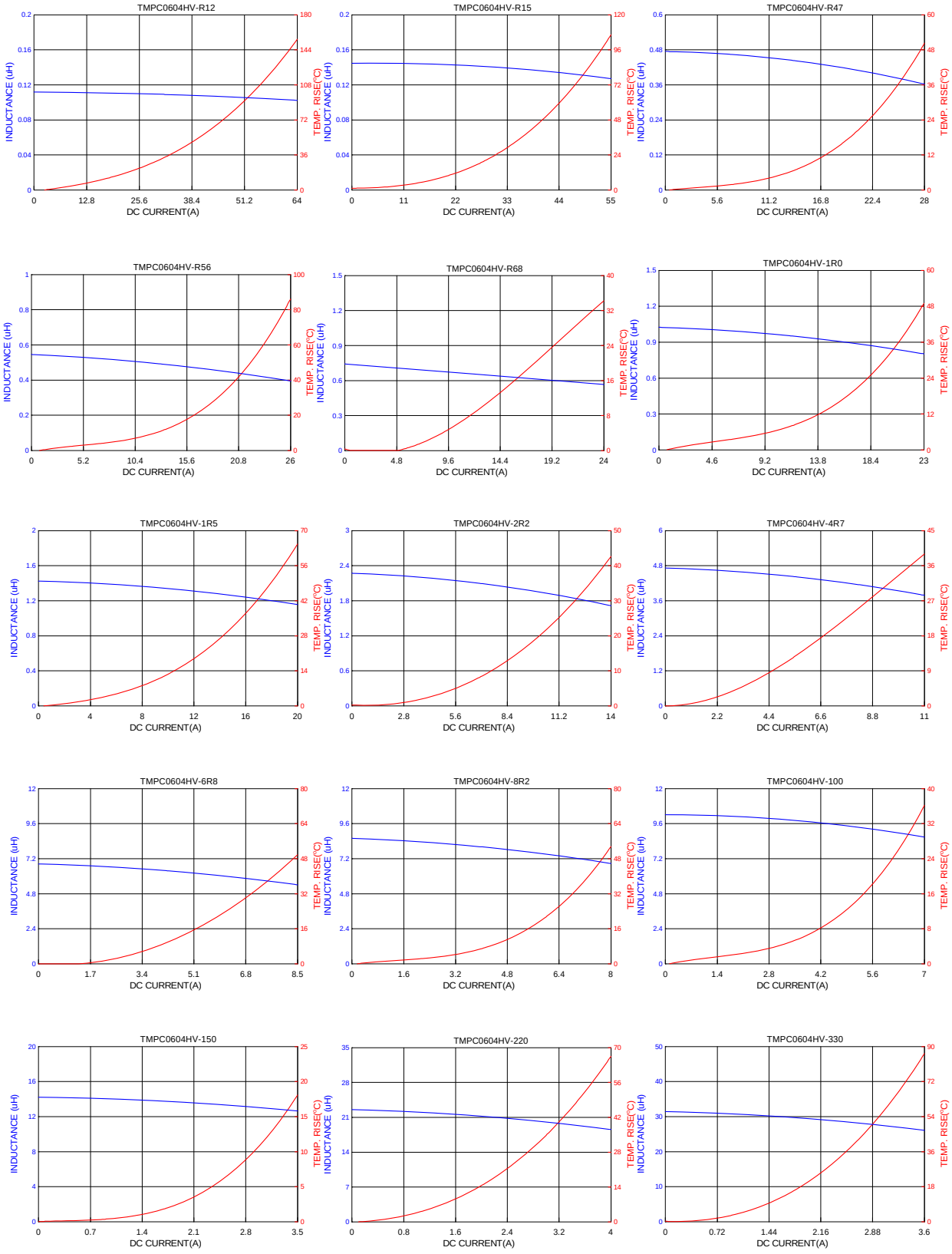
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0604HV-R12YG-D	0.12±30%	32	64	0.7	1.0
TMPC0604HV-R15YG-D	0.15±30%	30	55	0.9	1.2
TMPC0604HV-R47MG-D	0.47	23	28	3	3.4
TMPC0604HV-R56MG-D	0.56	20	26	3.8	4.3
TMPC0604HV-R68MG-D	0.68	16	24	4.1	4.5
TMPC0604HV-1R0MG-D	1.00	14	22	6.8	8.0
TMPC0604HV-1R5MG-D	1.50	12	20	10	12
TMPC0604HV-2R2MG-D	2.20	9	14	11.5	14
TMPC0604HV-4R7MG-D	4.70	6	11	28	32.5
TMPC0604HV-6R8MG-D	6.80	4.5	8.5	44	50
TMPC0604HV-8R2MG-D	8.20	4.5	8	55	64
TMPC0604HV-100MG-D	10.0	4	7	64	72
TMPC0604HV-150MG-D	15.0	3.0	3.5	80	90
TMPC0604HV-220MG-D	22.0	2.5	3.5	120	145
TMPC0604HV-330MG-D	33.0	1.8	3.2	180	210

Note:

1. Test frequency : L : 100KHz /1.0V
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC0605HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

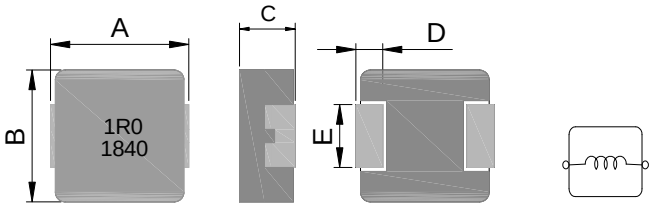
Halogen-free

RoHS

2. Applications

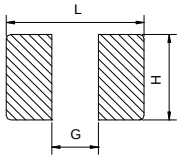
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0605HV	7.3±0.3	6.6±0.3	4.8±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
8.4	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0605	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder. V:Vehicle.
D: Inductance — 1R0=1.0uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色 1R0 及 D/C 1840 (18 年,40 週期)(依實際生產日期而定).

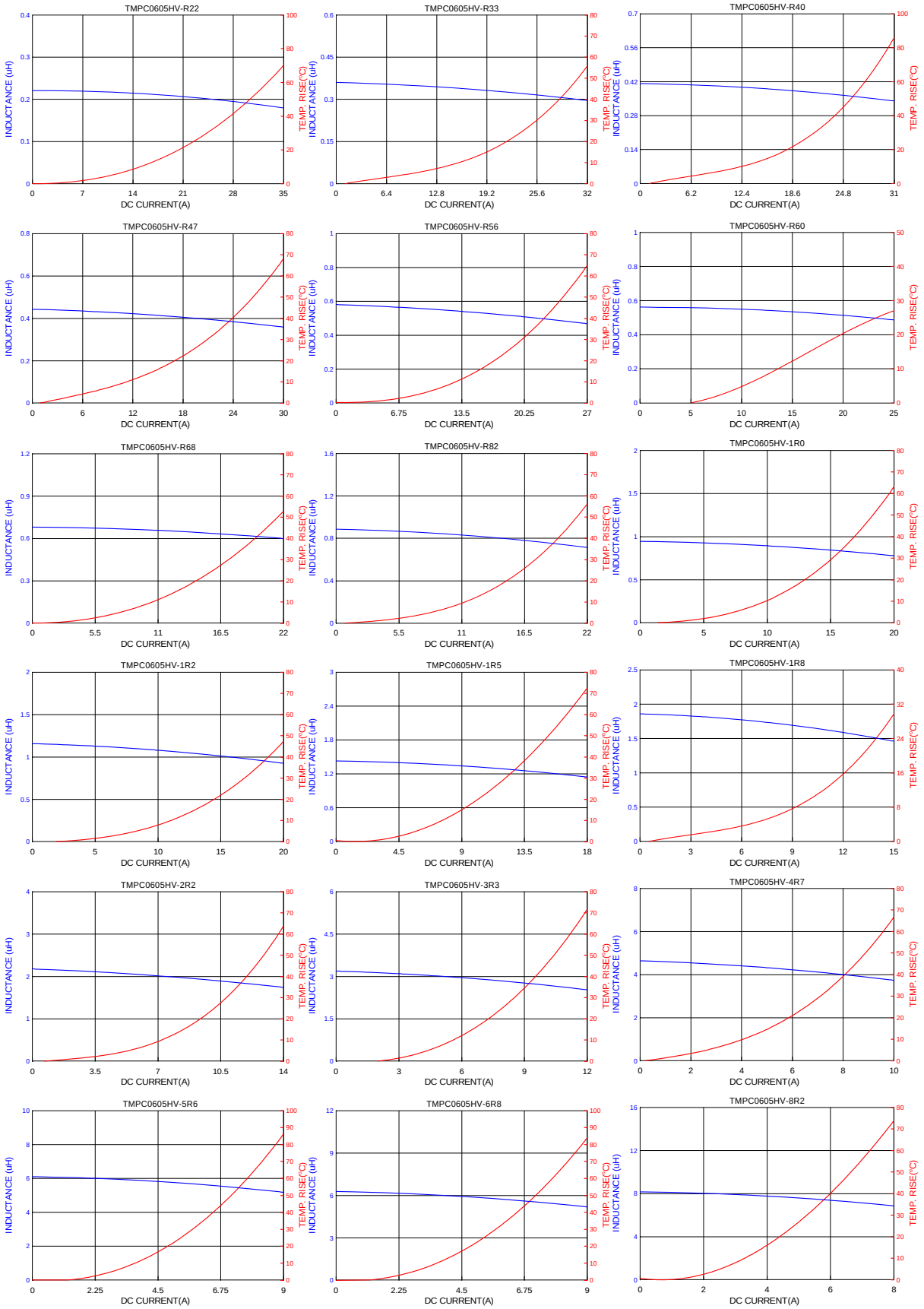
5. Specification

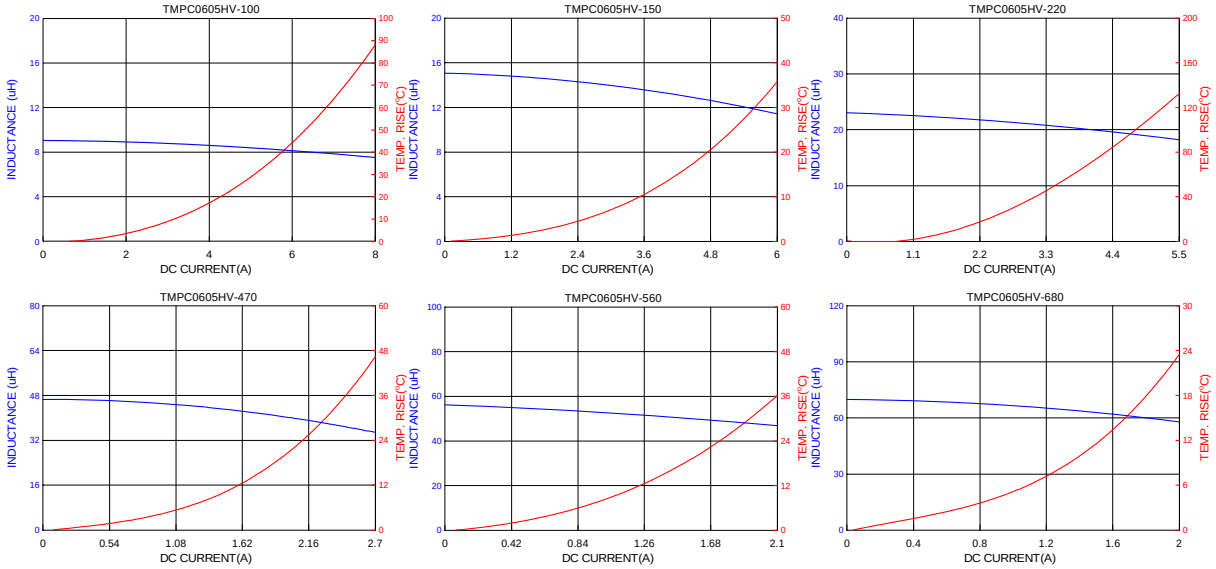
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0605HV-R22MG-D	0.22	25	35	1.6	1.9
TMPC0605HV-R33MG-D	0.33	25	32	2.5	3.0
TMPC0605HV-R40MG-D	0.40	23	31	3.1	3.7
TMPC0605HV-R47MG-D	0.47	22	30	3.5	3.9
TMPC0605HV-R56MG-D	0.56	20	27	3.6	4.2
TMPC0605HV-R60MG-D	0.60	19	25	3.8	4.3
TMPC0605HV-R68MG-D	0.68	18	24	4.0	4.5
TMPC0605HV-R82MG-D	0.82	16.5	22	4.6	4.9
TMPC0605HV-1R0MG-D	1.0	15	20	6.1	6.5
TMPC0605HV-1R2MG-D	1.2	14	18	6.7	7.5
TMPC0605HV-1R5MG-D	1.5	12	16.5	8.6	9.0
TMPC0605HV-1R8MG-D	1.8	12	15	9.5	11.0
TMPC0605HV-2R2MG-D	2.2	10	14	11.2	12.0
TMPC0605HV-3R3MG-D	3.3	8	12	19.0	20.9
TMPC0605HV-4R7MG-D	4.7	6.5	10	28.0	30.8
TMPC0605HV-5R6MG-D	5.6	6	9	43.5	49.0
TMPC0605HV-6R8MG-D	6.8	5.5	8.5	46.0	51.5
TMPC0605HV-8R2MG-D	8.2	5	8	56	63
TMPC0605HV-100MG-D	10.0	4.0	7.5	60	69
TMPC0605HV-150MG-D	15.0	3.5	6.0	81	92
TMPC0605HV-220MG-D	22.0	2.5	5.5	140	170
TMPC0605HV-470MG-D	47.0	1.9	2.7	290	330
TMPC0605HV-560MG-D	56.0	1.6	2.1	342	396
TMPC0605HV-680MG-D	68.0	1.2	2.0	386	445

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC0605HV-100
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0605HV-150
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0605HV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0605HV-470
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0605HV-560
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0605HV-680
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC0612HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

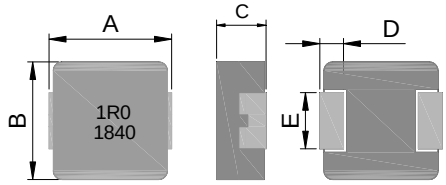
Halogen-free

RoHS

2. Applications

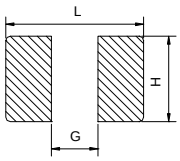
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0612HV	7.0±0.3	6.6±0.3	1.0±0.2	1.8±0.3	2.5±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.7	2.5	3.0

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0612	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension BxC
C: Type Magnetic metal powder V: Vehicle
D: Inductance 1R0=1.00uH
E: Inductance Tolerance M=±20%
F: 印 D/C 印字:黑色 1R0 及 D/C 1840 (18 年,40 週期)(依實際生產日期而定).

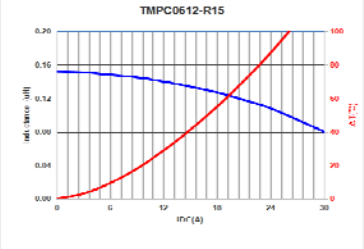
5. Specification

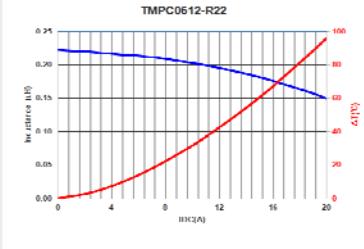
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0612HV-R15YG-D	0.15±30%	14	24	4.9	5.7
TMPC0612HV-R22YG-D	0.22±30%	11	19	6.5	7.5
TMPC0612HV-R33MG-D	0.33	9.5	16	9.0	10
TMPC0612HV-R47MG-D	0.47	8.5	12	13	17
TMPC0612HV-R68MG-D	0.68	7	9	17	19
TMPC0612HV-1R0MG-D	1.00	6	7	27	30
TMPC0612HV-1R2MG-D	1.20	5.0	6.8	31	36
TMPC0612HV-1R5MG-D	1.50	4.5	6.5	35	40
TMPC0612HV-2R2MG-D	2.20	4.0	5.0	53	61
TMPC0612HV-3R3MG-D	3.30	3.2	4.0	90	103
TMPC0612HV-4R7MG-D	4.70	2.5	3.8	130	150
TMPC0612HV-6R8MG-D	6.80	2.1	3.0	172	198
TMPC0612HV-100MG-D	10.0	1.8	2.5	280	290
TMPC0612HV-180MG-D	18.0	1.35	2.0	490	540
TMPC0612HV-220MG-D	22.0	1.2	1.7	540	600

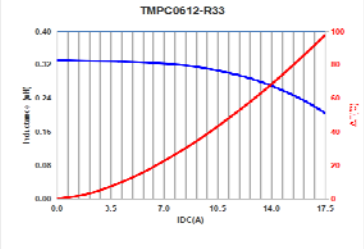
Note:

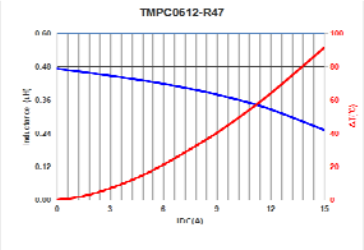
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

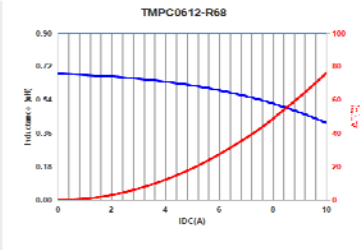
6. Typical Performance Curves

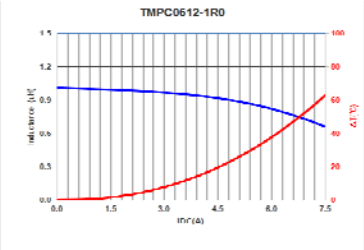


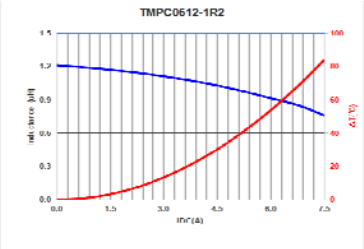


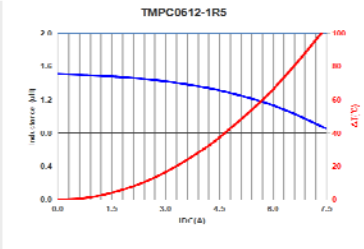


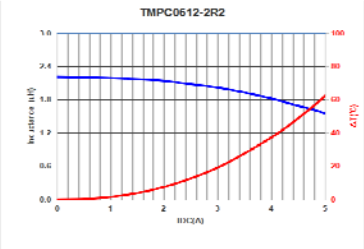


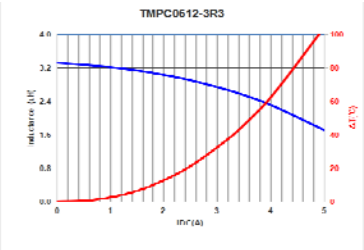


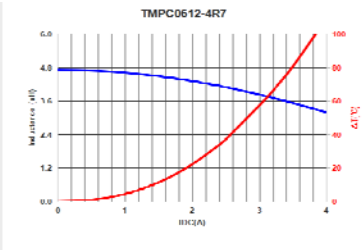


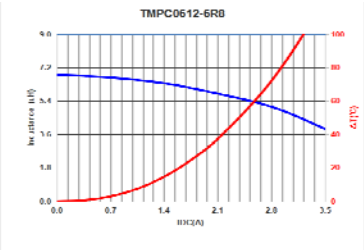


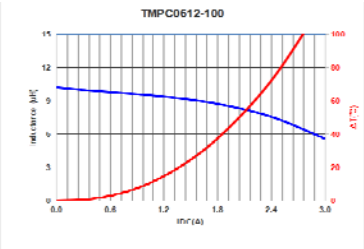


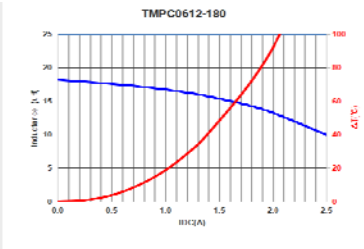


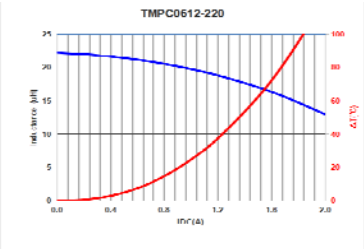












SMD Power Inductor

TMPC0615HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

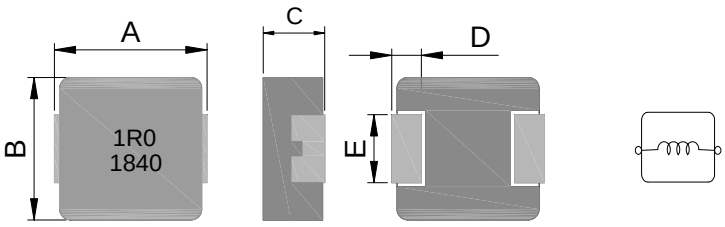
Halogen-free

RoHS

2. Applications

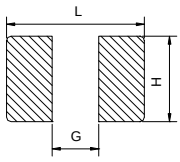
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0615HV	7.0±0.3	6.6±0.3	1.3±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.7	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0615	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension BxC
C: Type Magnetic metal powder V: Vehicle
D: Inductance 1R0=1.0uH
E: Inductance Tolerance M=±20%
F: 印 D/C 印字:黑色 1R0 及 D/C 1840 (18 年,40 週期)(依實際生產日期而定).

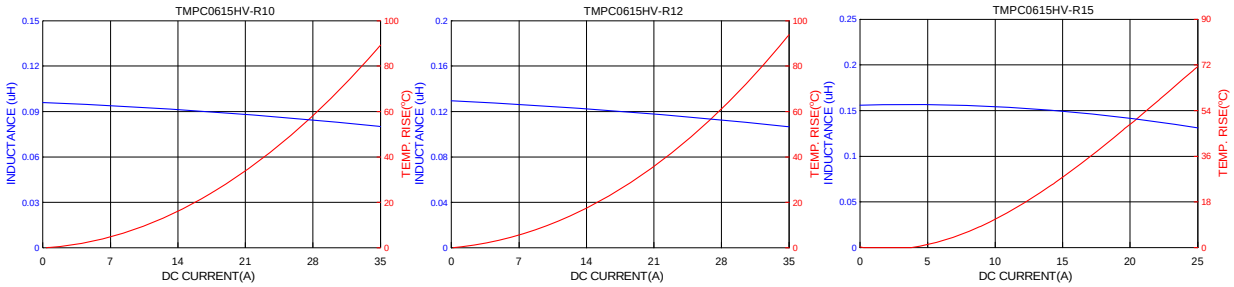
5. Specification

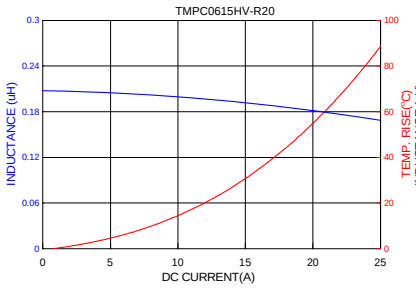
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ.@25℃	DCR (mΩ) Max.@25℃
TMPC0615HV-R10YG-D	0.10±30%	17.5	35	2.5	3.1
TMPC0615HV-R12YG-D	0.12±30%	17	30	3.0	3.6
TMPC0615HV-R15YG-D	0.15±30%	16	25	3.7	4.5
TMPC0615HV-R20YG-D	0.20±30%	14.5	24	3.9	4.6
TMPC0615HV-R22YG-D	0.22±30%	14	22	4.3	5.2
TMPC0615HV-R33MG-D	0.33	11	18	6.6	7.6
TMPC0615HV-R47MG-D	0.47	9.5	16	9.0	10.3
TMPC0615HV-R56MG-D	0.56	9	15.5	12.5	14
TMPC0615HV-R68MG-D	0.68	7.5	15	13.8	15.2
TMPC0615HV-R82MG-D	0.82	7	14	20	24
TMPC0615HV-1R0MG-D	1.00	6.5	12	23	25.8
TMPC0615HV-1R2MG-D	1.20	5.6	10.5	29.0	34
TMPC0615HV-1R5MG-D	1.50	5.0	9.5	37	42.5
TMPC0615HV-2R2MG-D	2.20	4.5	6.5	48	55
TMPC0615HV-3R3MG-D	3.30	4.2	6.0	62	74
TMPC0615HV-4R7MG-D	4.70	3.8	5.0	96	111
TMPC0615HV-5R6MG-D	5.60	3.0	4.5	115	138
TMPC0615HV-6R8MG-D	6.80	2.6	3.5	128	148
TMPC0615HV-8R2MG-D	8.20	2.4	3.2	153	184
TMPC0615HV-100MG-D	10.0	2.3	2.8	180	216
TMPC0615HV-220MG-D	22.0	1.5	2.5	420	504

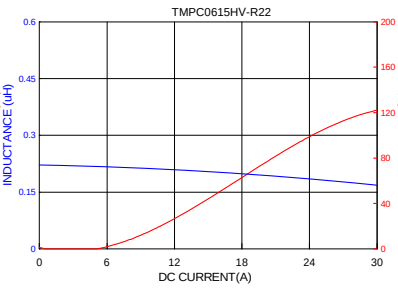
Note:

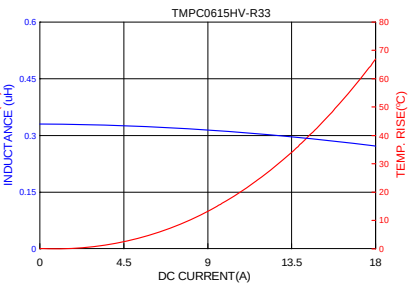
1. Test frequency : L : 100KHz /1.0V
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

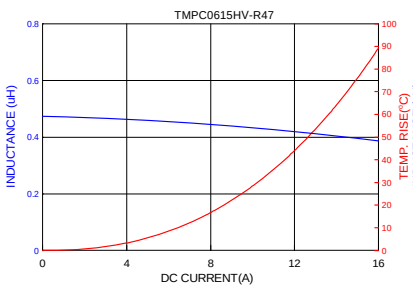
6. Typical Performance Curves

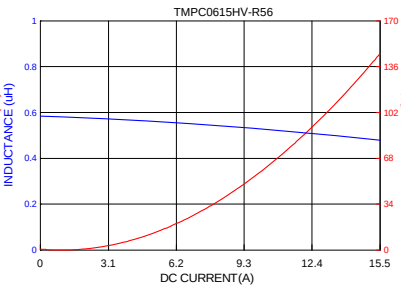


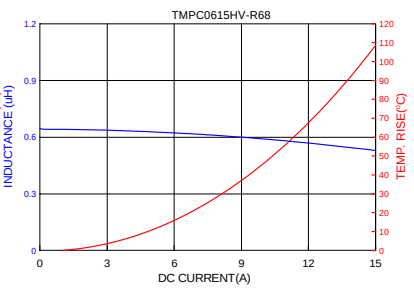


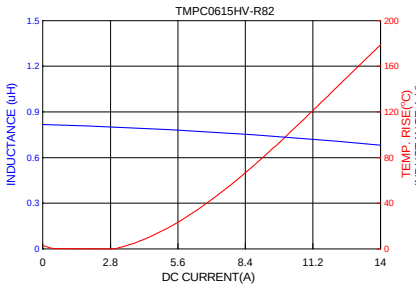


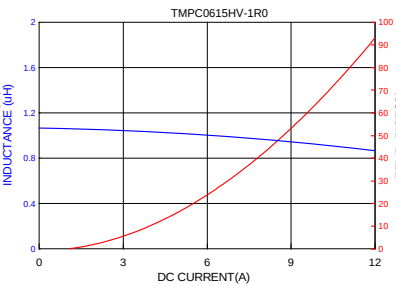


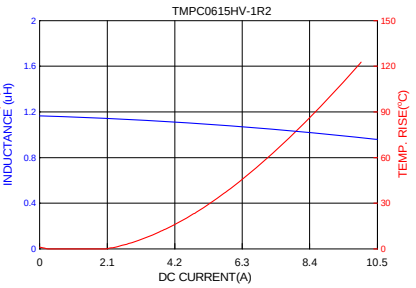


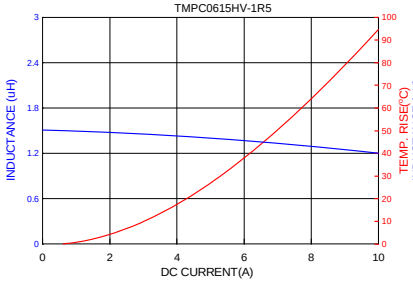


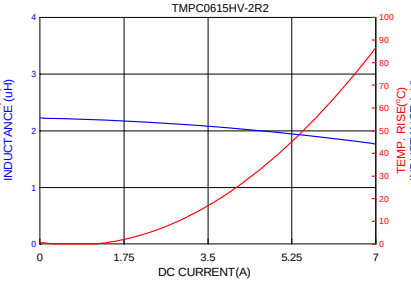


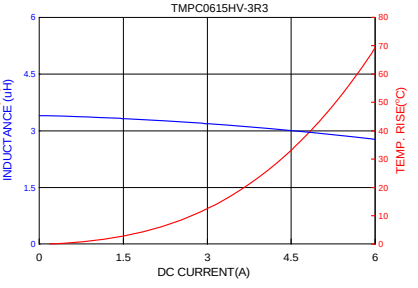


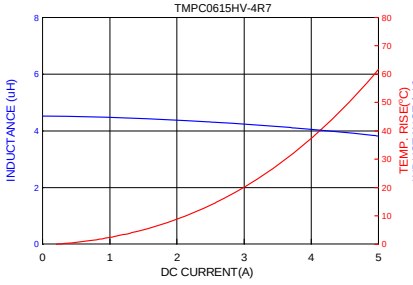


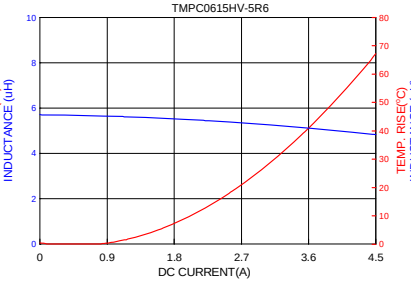


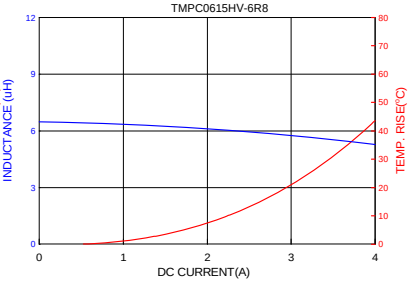


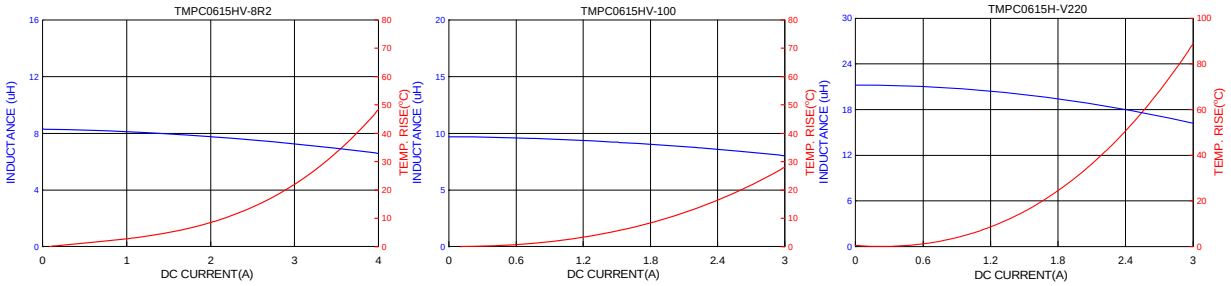











TMPC0615HV-8R2
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0615HV-100
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0615H-V220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC0618HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

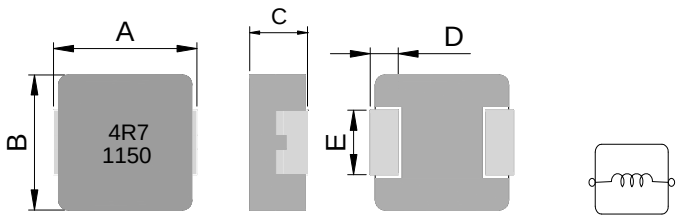
Halogen-free

RoHS

2. Applications

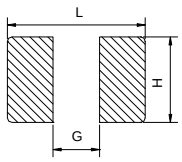
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0618HV	7.0±0.3	6.6±0.3	1.6±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.7	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0618	HV	-	4R7	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl powder V: Vehicle
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — M=±20%
F: D/C — 印字:黑色；4R7 及 D/C 1150 (D/C 前二碼是年份,後二碼是週期,依實際生產週期而定)

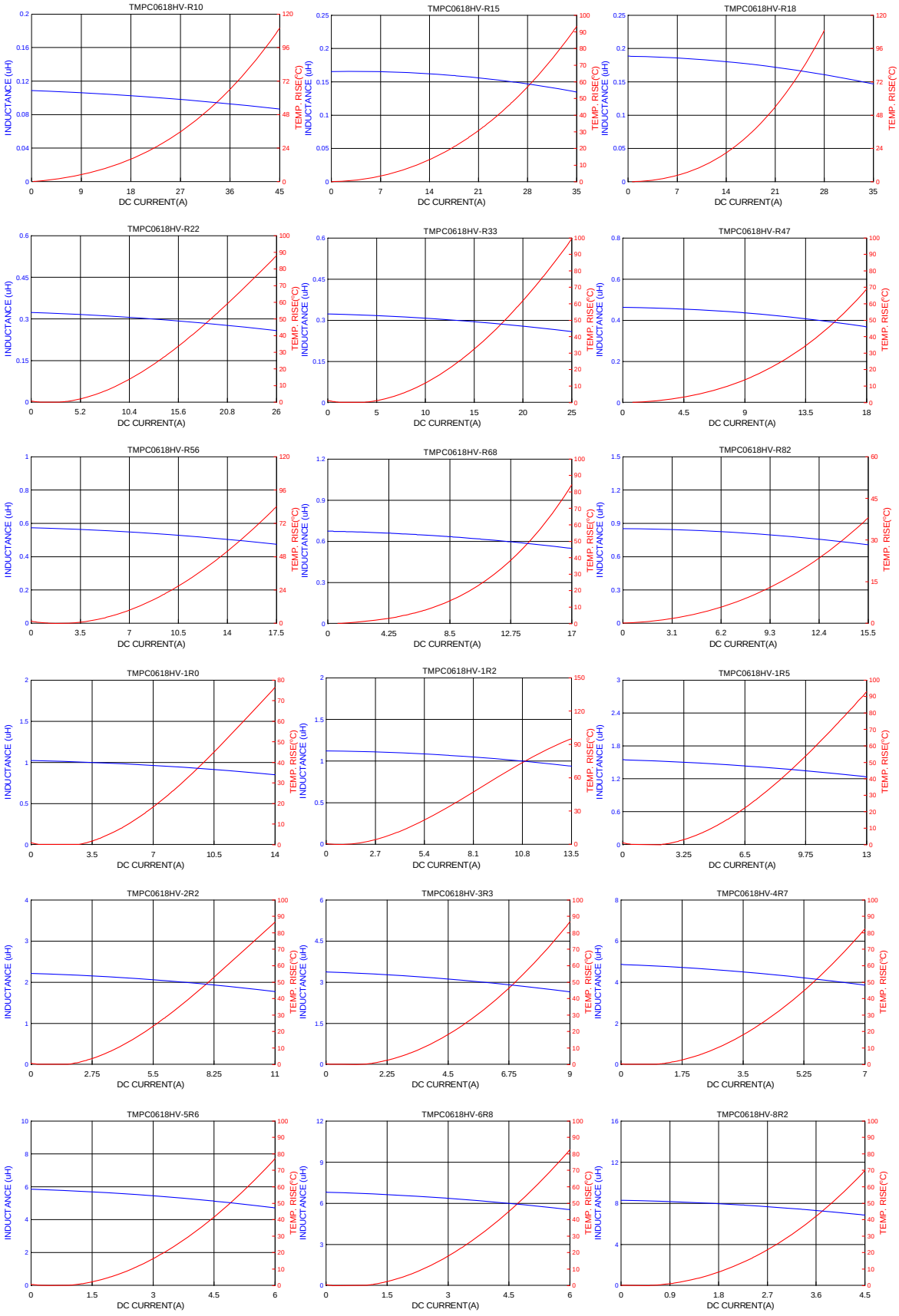
5. Specification

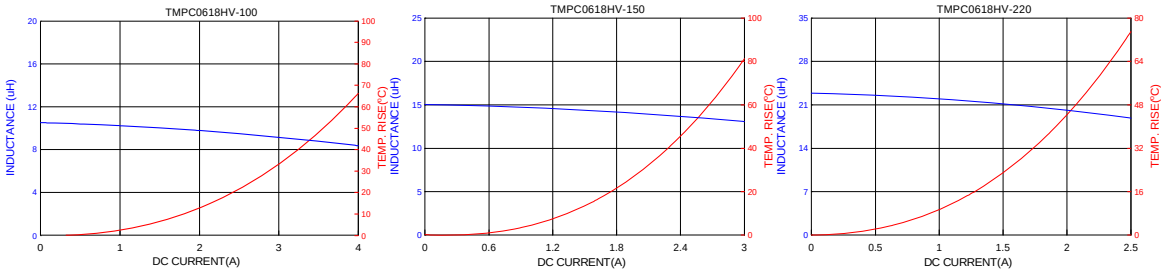
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ.@25℃	DCR (mΩ) Max.@25℃
TMPC0618HV-R10YG-D	0.10±30%	18	45	2.1	2.5
TMPC0618HV-R15YG-D	0.15±30%	18	34	2.2	2.6
TMPC0618HV-R18YG-D	0.18±30%	17	32	2.5	3.0
TMPC0618HV-R22MG-D	0.22	16	26	2.5	3
TMPC0618HV-R33MG-D	0.33	14	22	4.8	5.8
TMPC0618HV-R47MG-D	0.47	12	18	6.4	7.4
TMPC0618HV-R56MG-D	0.56	11	17.5	8.5	10
TMPC0618HV-R68MG-D	0.68	10	17	9.5	11.0
TMPC0618HV-R82MG-D	0.82	8.5	15.5	11.5	14.0
TMPC0618HV-1R0MG-D	1.00	7.0	14	14.5	17.0
TMPC0618HV-1R2MG-D	1.20	6.5	13.5	20	24
TMPC0618HV-1R5MG-D	1.50	6.0	13	21	25.2
TMPC0618HV-2R2MG-D	2.20	6.0	11	31	35
TMPC0618HV-3R3MG-D	3.30	5.0	9.0	40	46
TMPC0618HV-4R7MG-D	4.70	4.0	7.0	68	76
TMPC0618HV-5R6MG-D	5.60	3.5	6.0	78	86
TMPC0618HV-6R8MG-D	6.80	3.0	5.5	93	104
TMPC0618HV-8R2MG-D	8.20	2.6	4.5	123	140
TMPC0618HV-100MG-D	10.0	2.3	3.5	143	160
TMPC0618HV-150MG-D	15.0	2.0	3.0	240	280
TMPC0618HV-220MG-D	22.0	1.8	2.5	300	360
TMPC0618HV-330MG-D	33.0	1.3	2.1	550	650

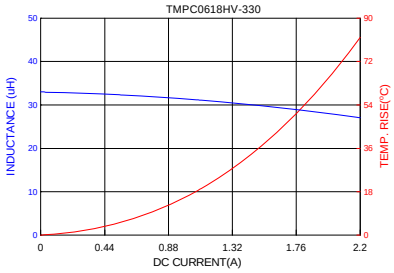
Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC0618HV-100
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0618HV-150
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC0618HV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC0618HV-330
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC0624HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

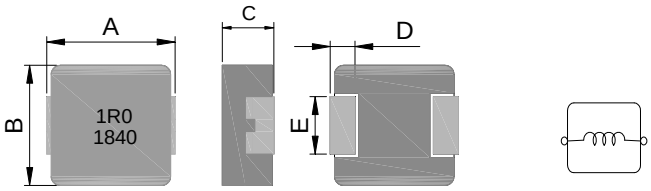
Halogen-free

RoHS

2. Applications

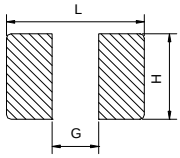
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0624HV	7.0±0.3	6.6±0.3	2.2±0.2	1.8±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
7.7	2.5	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0624	HV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	Carbonyl Powder. V: Vehicle
D: Inductance	1R0=1.00uH
E: Inductance Tolerance	M=±20%,Y=±30%.
F: 印 D/C	印字:黑色. 1R0 及 D/C 1840(18 年,40 週期)(依實際生產日期而定)

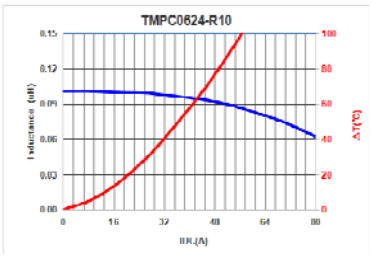
5. Specification

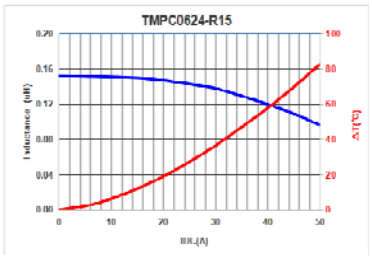
Part Number	Inductance L0 (uH) @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0624HV-R10YG-D	0.10±30%	30	70	1.4	1.7
TMPC0624HV-R15YG-D	0.15±30%	30	45	1.8	2.3
TMPC0624HV-R20MG-D	0.20±20%	23	40	1.9	2.8
TMPC0624HV-R22MG-D	0.22±20%	21	34	2.0	3.2
TMPC0624HV-R33MG-D	0.33±20%	18	30	3.6	4.4
TMPC0624HV-R36MG-D	0.36±20%	17	29	3.8	4.6
TMPC0624HV-R47MG-D	0.47±20%	15	26	4.8	5.1
TMPC0624HV-R56MG-D	0.56±20%	13	24	5.5	6.5
TMPC0624HV-R60MG-D	0.60±20%	13	22	5.7	6.9
TMPC0624HV-R68MG-D	0.68±20%	13	21	6.4	7.2
TMPC0624HV-R82MG-D	0.82±20%	11	17	8.0	9.5
TMPC0624HV-1R0MG-D	1.00±20%	11	16	10.5	13.5
TMPC0624HV-1R5MG-D	1.50±20%	9	15	17	20
TMPC0624HV-2R2MG-D	2.20±20%	7	14	23	28
TMPC0624HV-3R3MG-D	3.30±20%	6	10	34	39
TMPC0624HV-4R7MG-D	4.70±20%	5.5	9	41	50
TMPC0624HV-5R6MG-D	5.60±20%	5	8	56	62
TMPC0624HV-6R8MG-D	6.80±20%	4	7	65	72
TMPC0624HV-8R2MG-D	8.20±20%	3.6	6.0	81	95
TMPC0624HV-100MG-D	10.0±20%	3.2	5.0	92	101
TMPC0624HV-150MG-D	15.0±20%	2.5	3.5	150	180
TMPC0624HV-220MG-D	22.0±20%	1.8	3.0	185	215

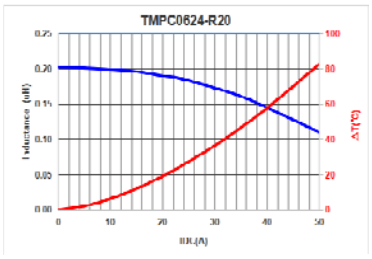
Note:

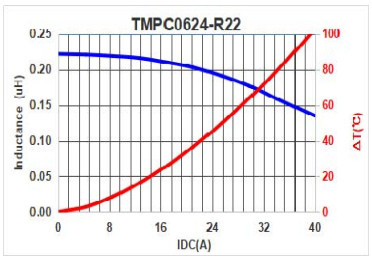
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

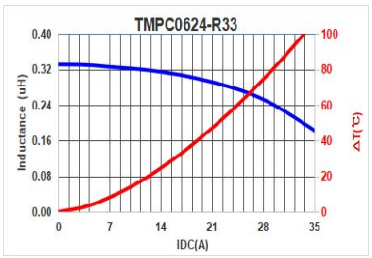
6. Typical Performance Curves

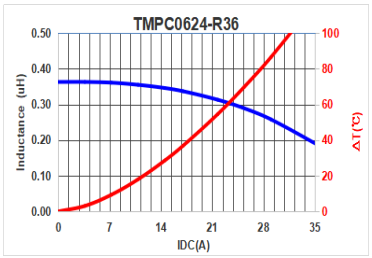


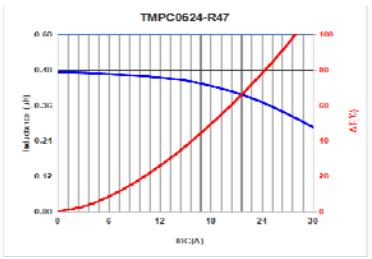


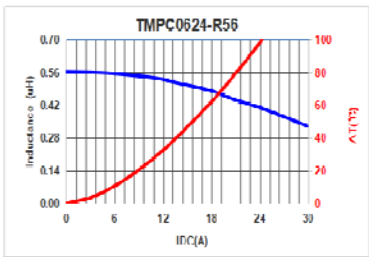


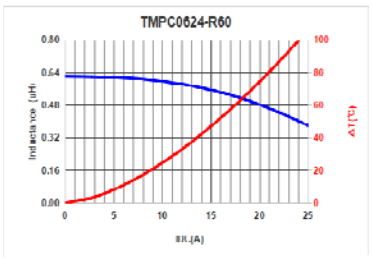


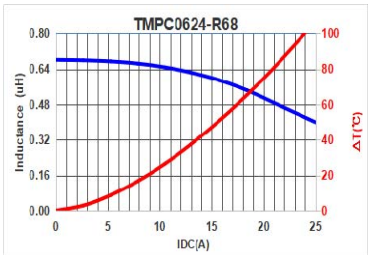


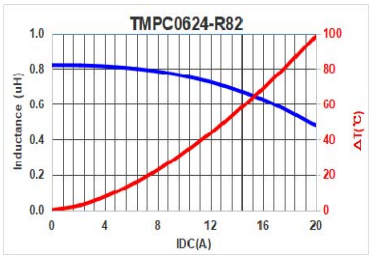


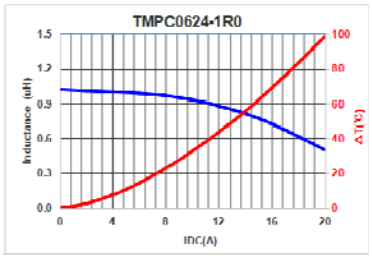


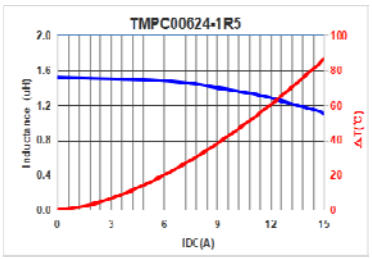


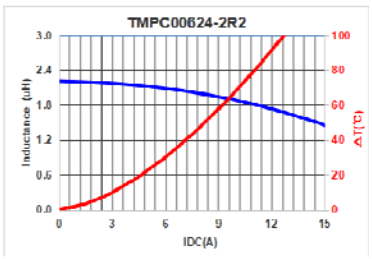


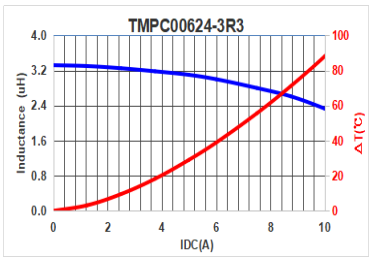


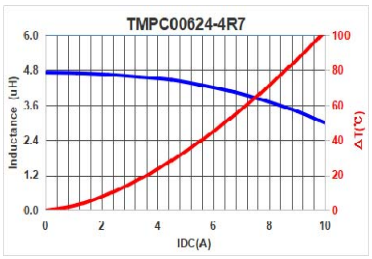


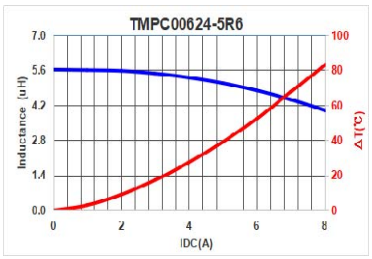


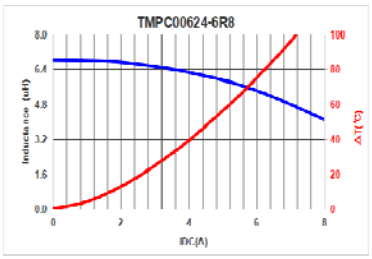


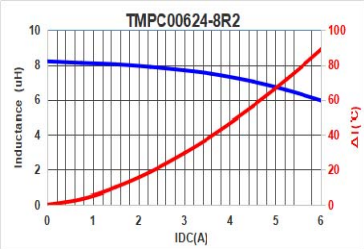


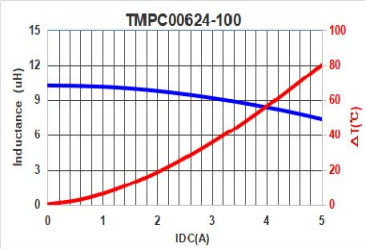


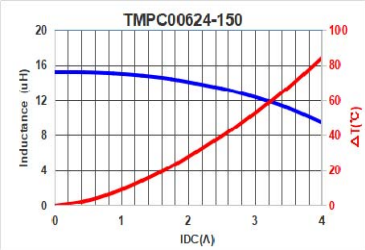


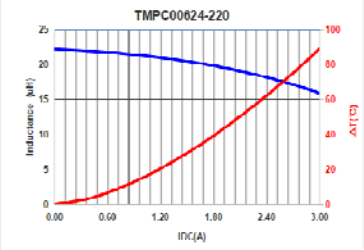





TMPC00624-8R2
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC00624-100
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC00624-150
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC00624-220
Inductance (uH)
ΔT(℃)
IDC(A)

SMD Power Inductor

TMPC0803HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self - temperature rise)

Halogen-free

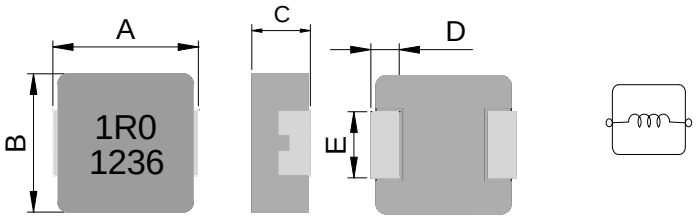
RoHS

2. Applications

Note PC power system，incl. IMVP-6

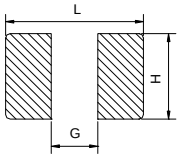
DC/DC converter .

3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0803HPV	9.5±0.3	8.5±0.3	2.8±0.2	1.4±0.3	4.7±0.30

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
10.4	4.5	5.2

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	0803	HPV	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension BxC
C: Type HP:H:Carbonyl Powder,P:PAD broaden.
D: Inductance 1R0=1.00uH
E: Inductance Tolerance M=±20%
F: 印 D/C 印字:黑色.1R0 及 D/C 1236 (12 年,36 週期,依實際生產周期而定)

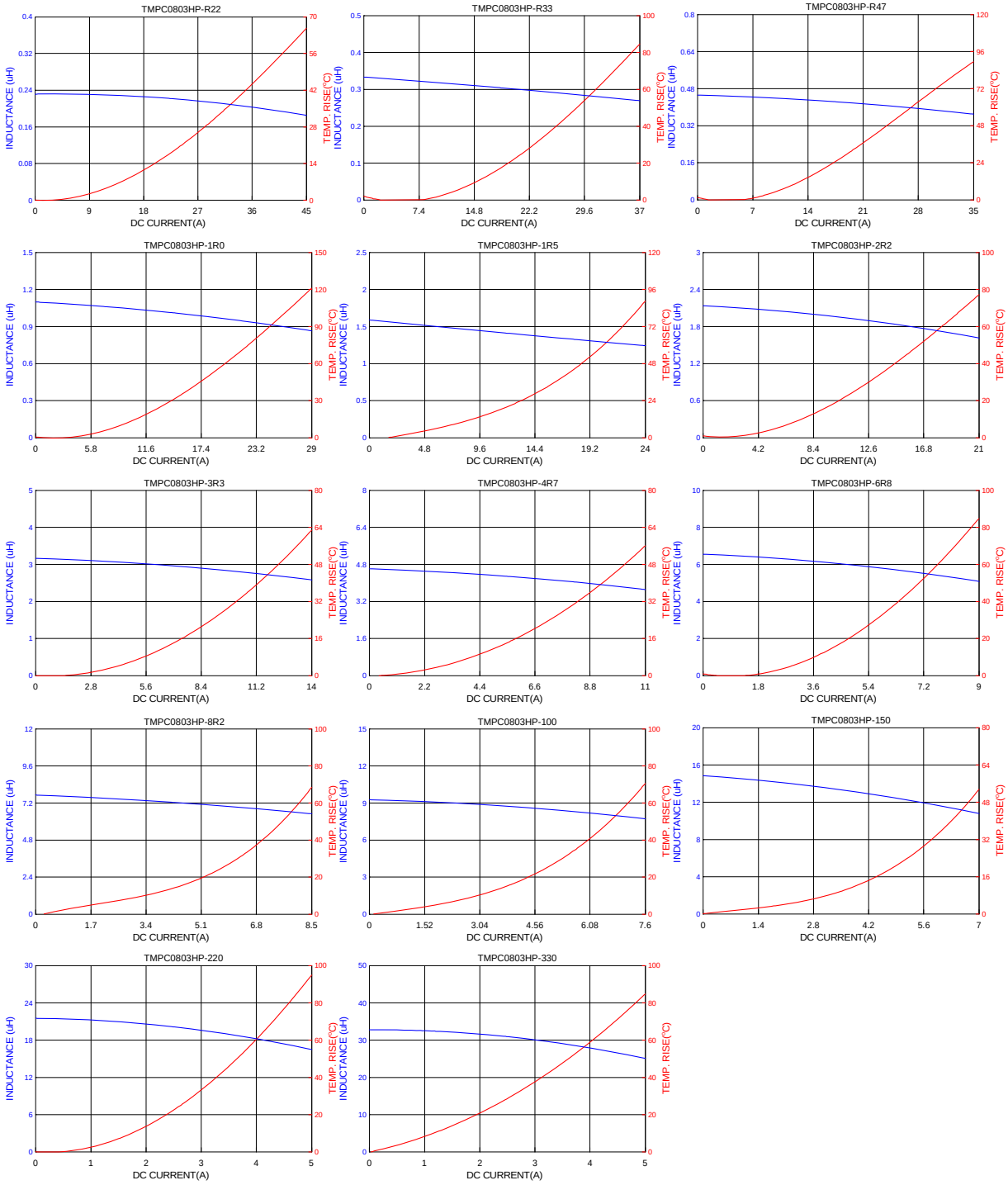
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) typ.	I sat (A) typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC0803HPV-R22MG-D	0.22	30	45	1.46	1.61
TMPC0803HPV-R33MG-D	0.33	25	37	2.3	2.6
TMPC0803HPV-R47MG-D	0.47	21.5	35	3.0	3.4
TMPC0803HPV-1R0MG-D	1.00	14	29	7.0	8.1
TMPC0803HPV-1R5MG-D	1.50	11.5	24	10.2	11.8
TMPC0803HPV-2R2MG-D	2.20	9	21	18	20.5
TMPC0803HPV-3R3MG-D	3.30	8	14	23	27
TMPC0803HPV-4R7MG-D	4.70	7	11	32	37
TMPC0803HPV-6R8MG-D	6.80	5.5	9	46	53
TMPC0803HPV-8R2MG-D	8.20	5	8.5	52	60
TMPC0803HPV-100MG-D	10.0	4.7	8.2	65	75
TMPC0803HPV-150MG-D	15.0	3.8	7	88	102
TMPC0803HPV-220MG-D	22.0	3.0	4.5	145	180
TMPC0803HPV-330MG-D	33.0	2.8	4.0	190	220

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC1004HV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

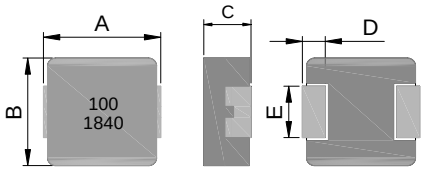
Halogen-free

RoHS

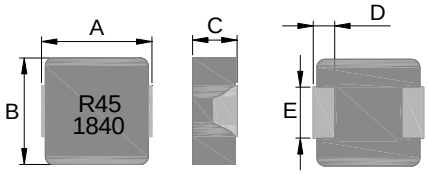
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



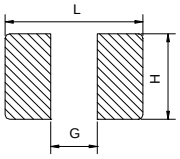
leadframe



non-leadframe

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1004HV	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
13.6	5.4	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1004	HV	-	100	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder,vehicle. V: Vehicle
D: Inductance — 100=10.0uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色.100 及 D/C 1840(18 年,40 週期)(依實際生產日期而定)

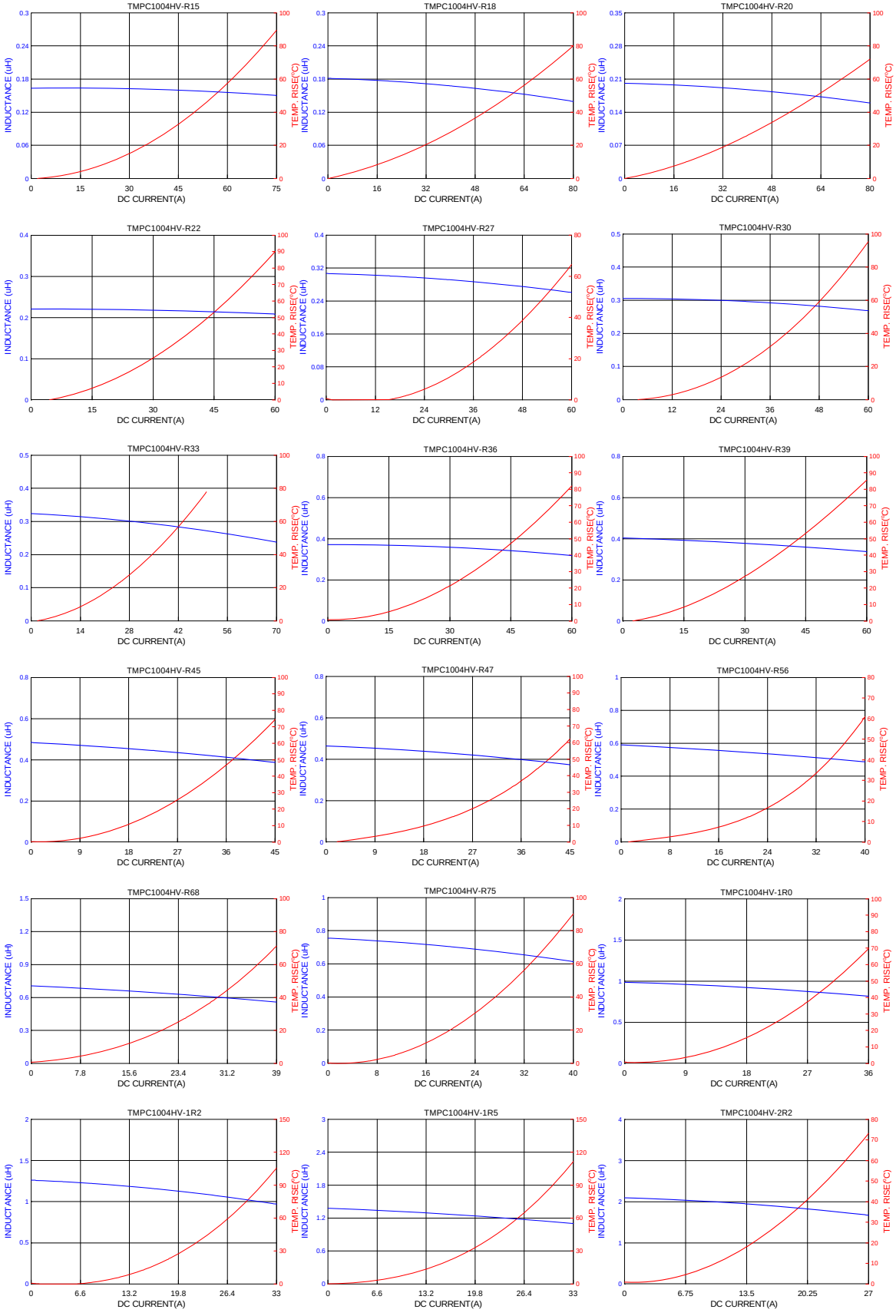
5. Specification

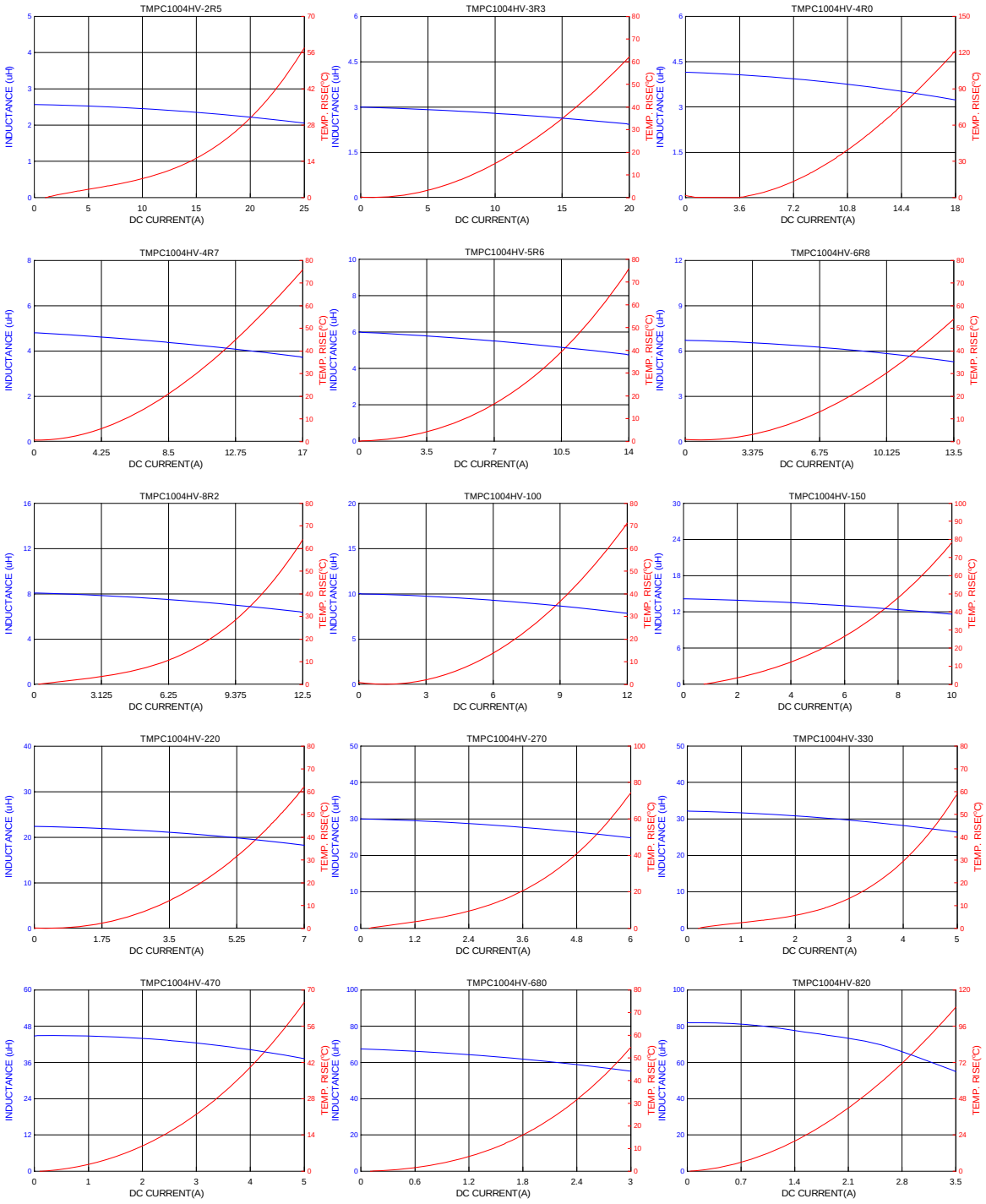
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1004HV-R15YG-D	0.15±30%	43	75	0.5	0.6	non-leadframe
TMPC1004HV-R18YG-D	0.18±30%	38	72	0.54	0.8	non-leadframe
TMPC1004HV-R20YG-D	0.20±30%	35	70	0.66	0.95	non-leadframe
TMPC1004HV-R22MG-D	0.22	35	60	0.8	1.0	non-leadframe
TMPC1004HV-R27MG-D	0.27	33	60	0.82	1.0	non-leadframe
TMPC1004HV-R30MG-D	0.30	32	60	0.94	1.1	non-leadframe
TMPC1004HV-R33MG-D	0.33	31	60	1.00	1.2	non-leadframe
TMPC1004HV-R36MG-D	0.36	31	60	1.05	1.2	non-leadframe
TMPC1004HV-R39MG-D	0.39	30	60	1.1	1.3	non-leadframe
TMPC1004HV-R45MG-D	0.45	29	45	1.3	1.5	non-leadframe
TMPC1004HV-R47MG-D	0.47	28	43	1.3	1.5	non-leadframe
TMPC1004HV-R56MG-D	0.56	25	40	1.6	1.8	non-leadframe
TMPC1004HV-R68MG-D	0.68	22	39	2.4	2.7	non-leadframe
TMPC1004HV-R75MG-D	0.75	22	39	2.4	2.7	non-leadframe
TMPC1004HV-1R0MG-D	1.00	18	36	3.0	3.3	non-leadframe
TMPC1004HV-1R2MG-D	1.20	17	33	3.3	3.8	non-leadframe
TMPC1004HV-1R5MG-D	1.50	16	33	4.0	4.6	non-leadframe
TMPC1004HV-2R2MG-D	2.20	12	27	6.5	7.0	leadframe
TMPC1004HV-2R5MG-D	2.50	11.5	23	7.9	8.7	leadframe
TMPC1004HV-3R3MG-D	3.30	11	20	10.8	11.8	leadframe
TMPC1004HV-4R0MG-D	4.00	10.2	18	13	15	leadframe
TMPC1004HV-4R7MG-D	4.70	10	17	15.0	15.5	leadframe
TMPC1004HV-5R6MG-D	5.60	9.0	14	17	19.3	leadframe
TMPC1004HV-6R8MG-D	6.80	8.5	13.5	17.5	23.3	leadframe
TMPC1004HV-8R2MG-D	8.20	8.0	12.5	20	22.5	leadframe
TMPC1004HV-100MG-D	10.0	7.5	12.0	27.0	30	leadframe
TMPC1004HV-150MG-D	15.0	6.25	10	40	45	leadframe
TMPC1004HV-220MG-D	22.0	5.0	7.0	64	74	leadframe
TMPC1004HV-270MG-D	27.0	4.0	6.0	86	100	leadframe
TMPC1004HV-330MG-D	33.0	3.5	5.0	92	112	leadframe
TMPC1004HV-470MG-D	47.0	3.0	4.5	145	167	leadframe
TMPC1004HV-680MG-D	68.0	2.0	3.0	205	240	leadframe
TMPC1004HV-820MG-D	82.0	1.5	2.5	265	320	leadframe

Note:

1. Test frequency : L/Q : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC1004HV-2R5
TMPC1004HV-3R3
TMPC1004HV-4R0
TMPC1004HV-4R7
TMPC1004HV-5R6
TMPC1004HV-6R8
TMPC1004HV-8R2
TMPC1004HV-100
TMPC1004HV-150
TMPC1004HV-220
TMPC1004HV-270
TMPC1004HV-330
TMPC1004HV-470
TMPC1004HV-680
TMPC1004HV-820
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC1005HV-Series(G)-D

1. Features

1. Carbonyl powder
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

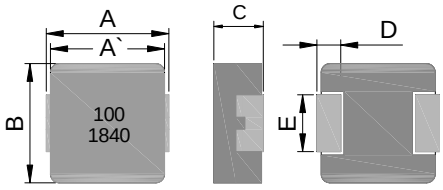
Halogen-free

RoHS

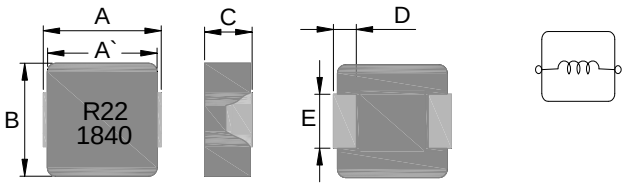
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



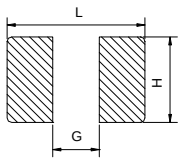
leadframe



non-leadframe

Series	A(mm)	A`(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1005HV	11.0±0.5	10.0±0.3	10.0±0.3	4.8±0.2	2.3±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
13.6	5.4	3.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1005	HV	-	100	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — Carbonyl Powder, V:vehicle.
D: Inductance — 100=10.0uH
E: Inductance Tolerance — M=±20%
F:印 D/C — 印字:黑色.100 及 D/C 1840(18 年,40 週期)(依實際生產日期而定)

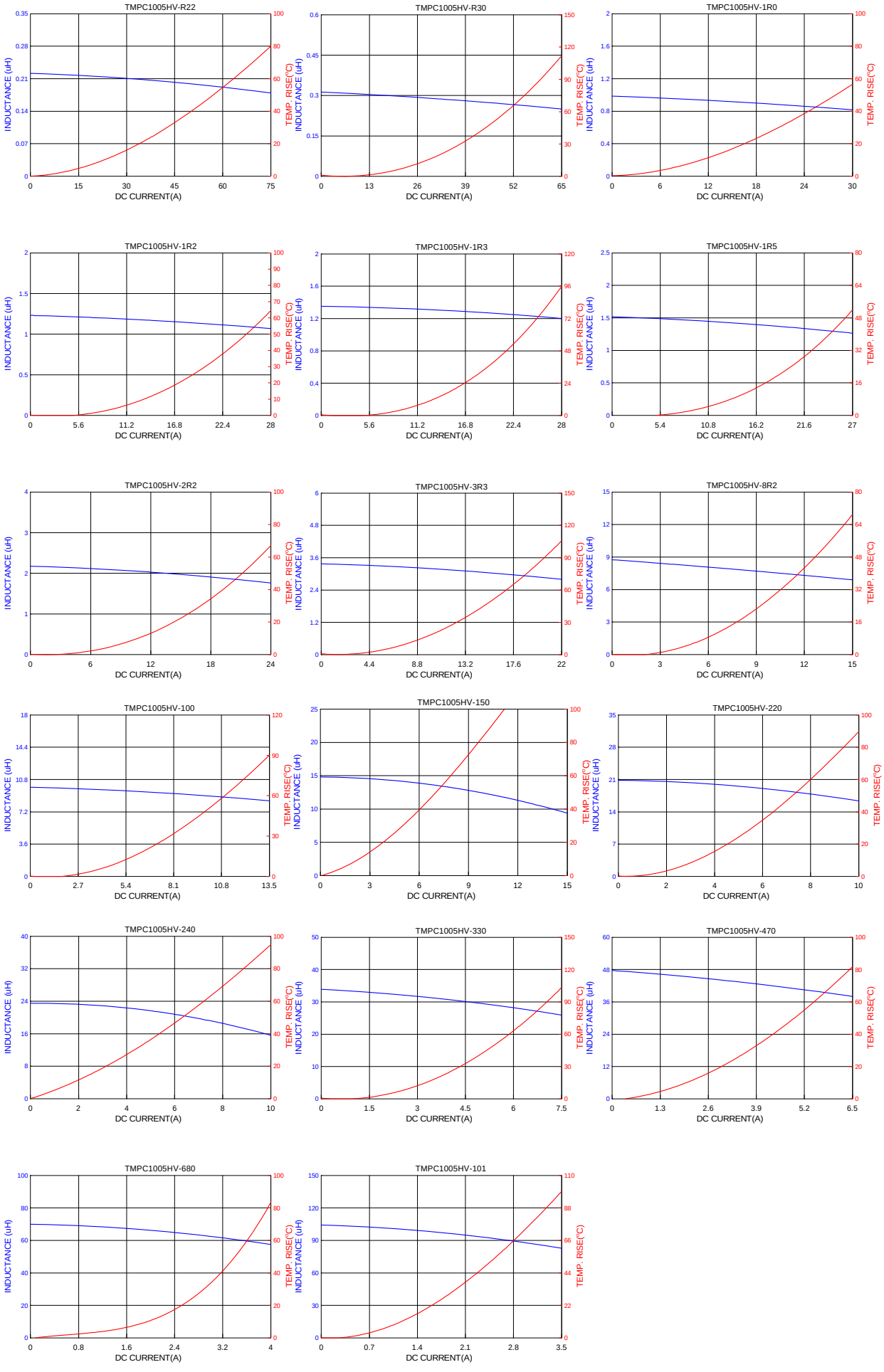
5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1005HV-R22MG-D	0.22	45	70	0.45	0.5	non-leadframe
TMPC1005HV-R30MG-D	0.30	38	65	0.57	0.61	non-leadframe
TMPC1005HV-1R0MG-D	1.00	22	30	2.8	3.5	non-leadframe
TMPC1005HV-1R2MG-D	1.20	20	28	2.9	3.5	non-leadframe
TMPC1005HV-1R3MG-D	1.30	20	28	3.2	3.7	non-leadframe
TMPC1005HV-1R5MG-D	1.50	19	27	3.5	4.1	non-leadframe
TMPC1005HV-2R2MG-D	2.20	16	24	5.4	6.0	leadframe
TMPC1005HV-3R3MG-D	3.30	14	22	9.0	10.4	leadframe
TMPC1005HV-8R2MG-D	8.20	9	14.5	18.5	24	leadframe
TMPC1005HV-100MG-D	10.0	8	13.5	25	29	leadframe
TMPC1005HV-150MG-D	15.0	5.5	9.5	37	45	leadframe
TMPC1005HV-220MG-D	22.0	5	9	50	60	leadframe
TMPC1005HV-240MG-D	24.0	4.6	7.7	59	70.8	leadframe
TMPC1005HV-330MG-D	33.0	4.3	7.5	80	92	leadframe
TMPC1005HV-470MG-D	47.0	3.8	6.5	125	145	leadframe
TMPC1005HV-680MG-D	68.0	2.5	4.0	176	205	leadframe
TMPC1005HV-101MG-D	100	2.0	3.0	315	380	leadframe

Note:

1. Test frequency : L : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t40℃ .
5. Saturation Current (Isat) will cause L0 to drop approximately 20%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves



SMD Power Inductor

TMPC1205HPV-Serise(G)-D

1. Features

1. Magnetic metal powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

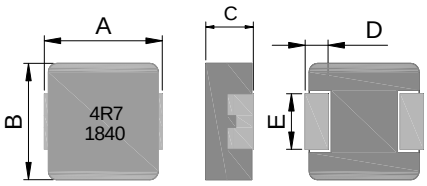
Halogen-free

RoHS

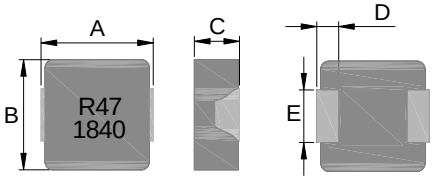
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



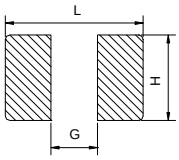
leadframe



non-leadframe

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1205HPV	13.5±0.5	12.5±0.3	4.8±0.2	2.3±0.3	4.7±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
14.2	8.0	5.0

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1205	HPV	-	4R7	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — HPV:H:Magnetic metal powder, P:PAD broaden. V: Vehicle
D: Inductance — 4R7=4.70uH
E: Inductance Tolerance — M=±20%
F: 印 D/C — 印字:黑色.4R7 及 D/C1840 (18 年,40 週期)(依實際生產日期而定)

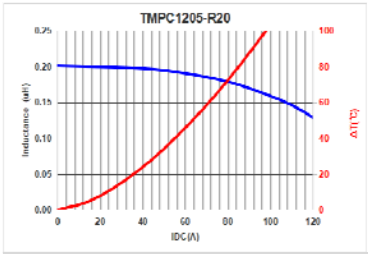
5. Specification

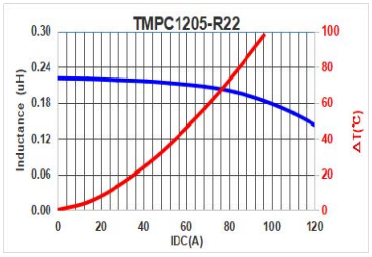
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1205HPV-R20MG-D	0.20	52	110	0.45	0.55	non-leadframe
TMPC1205HPV-R22MG-D	0.22	52	110	0.5	0.7	non-leadframe
TMPC1205HPV-R33MG-D	0.33	42	80	0.7	0.9	non-leadframe
TMPC1205HPV-R36MG-D	0.36	42	75	0.75	0.95	non-leadframe
TMPC1205HPV-R39MG-D	0.39	42	70	0.78	0.95	non-leadframe
TMPC1205HPV-R47MG-D	0.47	38	65	0.86	1.1	non-leadframe
TMPC1205HPV-R50MG-D	0.50	37	60	0.9	1.3	non-leadframe
TMPC1205HPV-R56MG-D	0.56	36	55	1.0	1.5	non-leadframe
TMPC1205HPV-R68MG-D	0.68	34	54	1.4	1.7	non-leadframe
TMPC1205HPV-R82MG-D	0.82	31	52	1.7	2.1	non-leadframe
TMPC1205HPV-1R0MG-D	1.00	29	50	1.85	2.5	non-leadframe
TMPC1205HPV-1R2MG-D	1.20	28	49	2.5	3	non-leadframe
TMPC1205HPV-1R5MG-D	1.50	27	48	2.8	3.3	non-leadframe
TMPC1205HPV-1R8MG-D	1.80	21	40	4.0	4.9	leadframe
TMPC1205HPV-2R2MG-D	2.20	20	32	4.2	5.5	leadframe
TMPC1205HPV-2R7MG-D	2.70	17	32	4.7	6.7	leadframe
TMPC1205HPV-3R3MG-D	3.30	15	32	6.8	9.2	leadframe
TMPC1205HPV-4R7MG-D	4.70	12	27	11.4	15.0	leadframe
TMPC1205HPV-5R6MG-D	5.60	11.5	22	12.3	16.5	leadframe
TMPC1205HPV-6R0MG-D	6.00	11.5	21.5	13	16.5	leadframe
TMPC1205HPV-6R8MG-D	6.80	11	21	14.5	18.5	leadframe
TMPC1205HPV-8R2MG-D	8.20	9.5	18	16.8	22.5	leadframe
TMPC1205HPV-100MG-D	10.0	9.0	16	21.4	25.5	leadframe
TMPC1205HPV-150MG-D	15.0	8.2	13	32	38	leadframe
TMPC1205HPV-180MG-D	18.0	7.5	11	40	45	leadframe
TMPC1205HPV-220MG-D	22.0	6.5	10	50	58	leadframe
TMPC1205HPV-330MG-D	33.0	5.0	8	73	88	leadframe

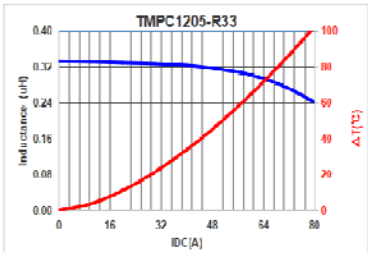
Note:

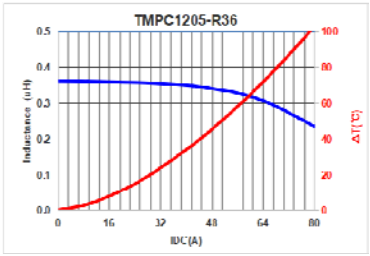
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

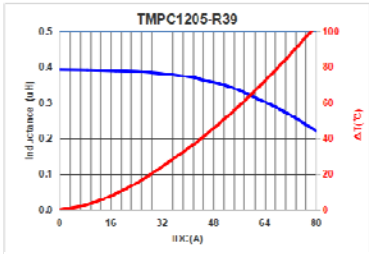
6. Typical Performance Curves

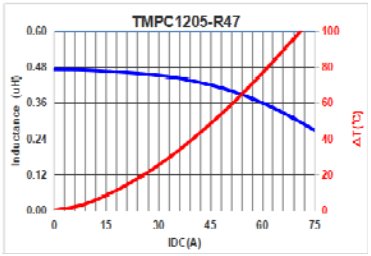


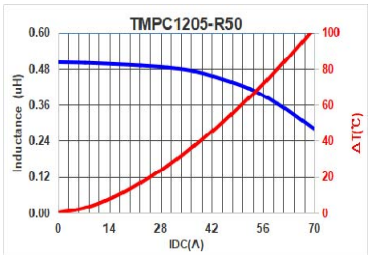


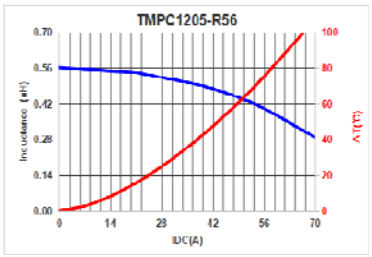


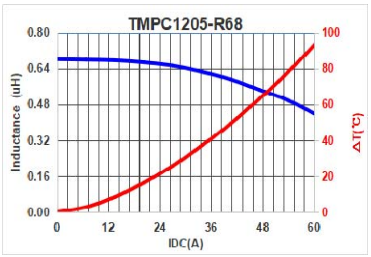


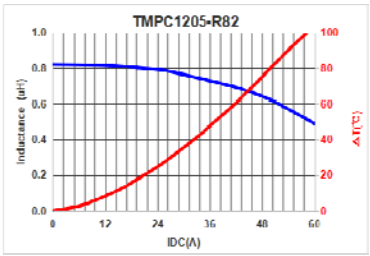


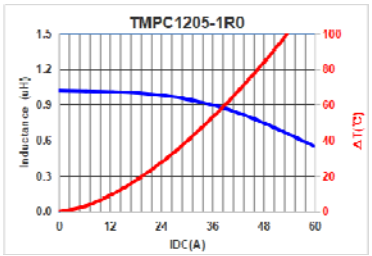


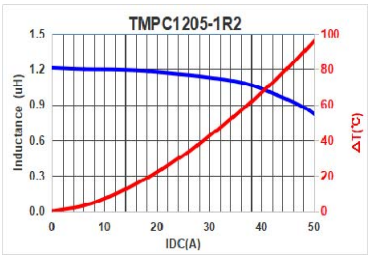


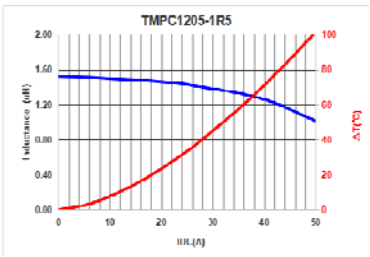


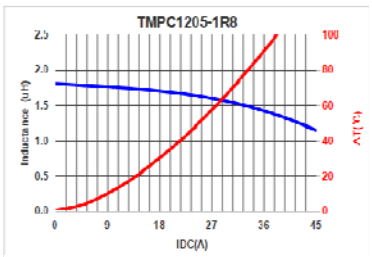


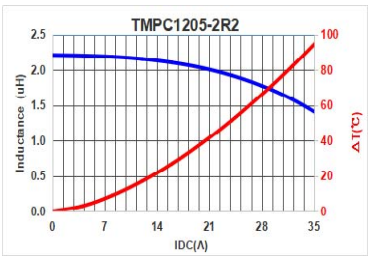


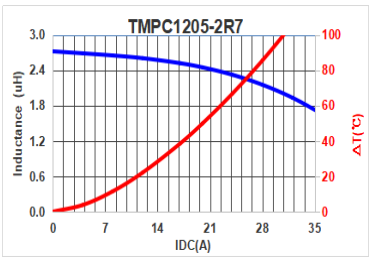


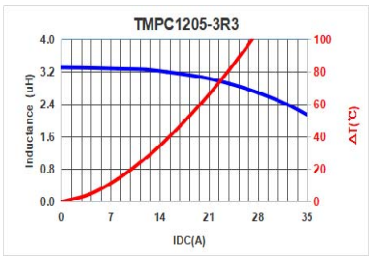


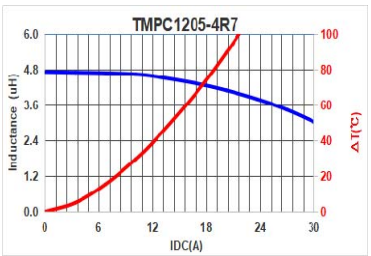


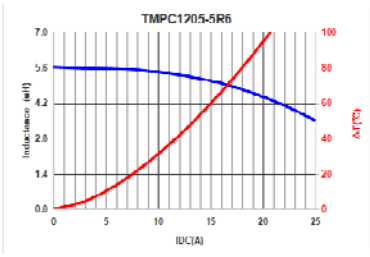


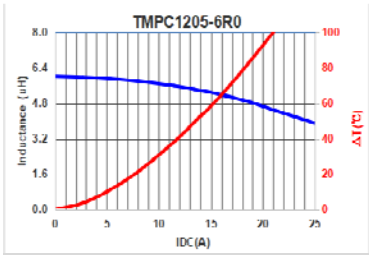


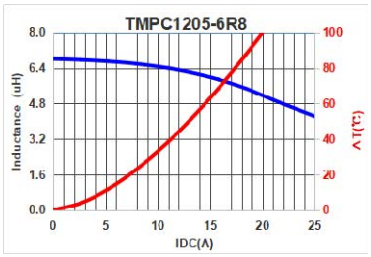


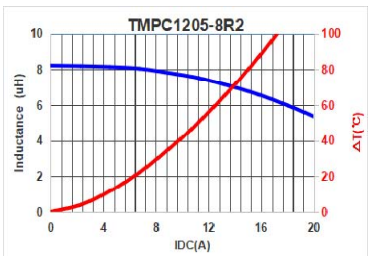


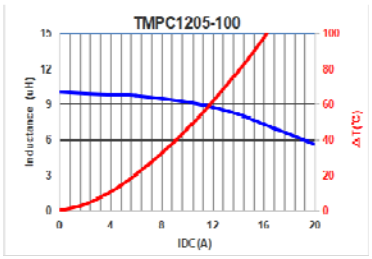


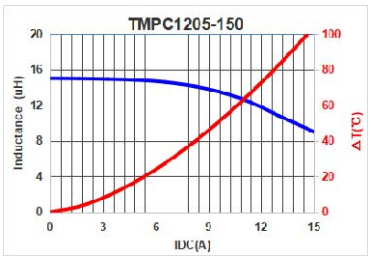

TMPC1205-5R6
Inductance (uH)
ΔT(℃)
IDC(A)

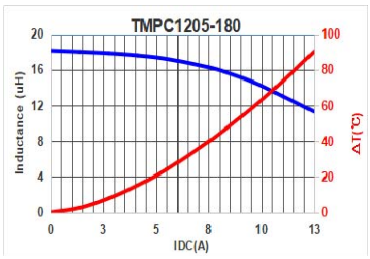

TMPC1205-6R0
Inductance (uH)
ΔT(℃)
IDC(A)

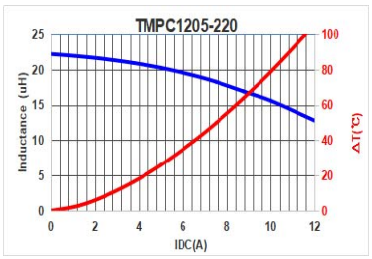

TMPC1205-6R8
Inductance (uH)
ΔT(℃)
IDC(A)

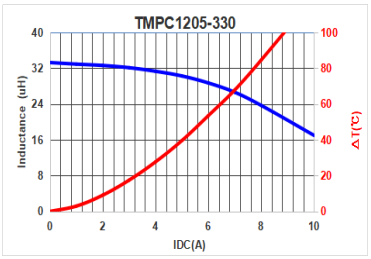

TMPC1205-8R2
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1205-100
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1205-150
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1205-180
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1205-220
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1205-330
Inductance (uH)
ΔT(℃)
IDC(A)

SMD Power Inductor

TMPC1206HPV-Series(G)-D

1. Features

1. Magnetic metal powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200
8. Operating temperature: -55~+125℃(Including self-temperature rise)

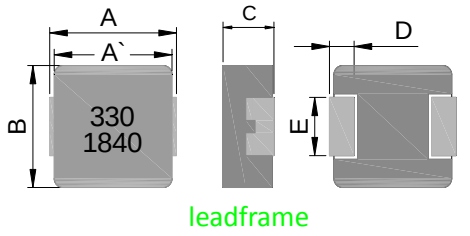
Halogen-free

RoHS

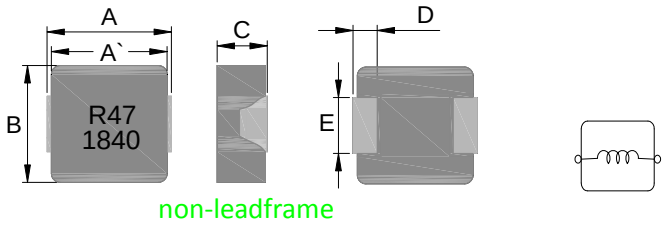
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



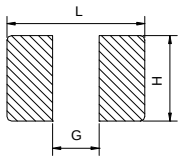
leadframe



non-leadframe

Series	A(mm)	A'(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1206HP	13.5±0.5	12.5±0.3	12.5±0.3	5.7±0.3	2.3±0.3	4.7±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
14.2	8.0	5.0

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1206	HPV	-	330	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	HP:H: Carbonyl Powder,P:PAD broaden. V: Vehicle.
D: Inductance	330=33uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色.330 及 D/C 1840 (18 年,40 週期,依實際生產周期而定)

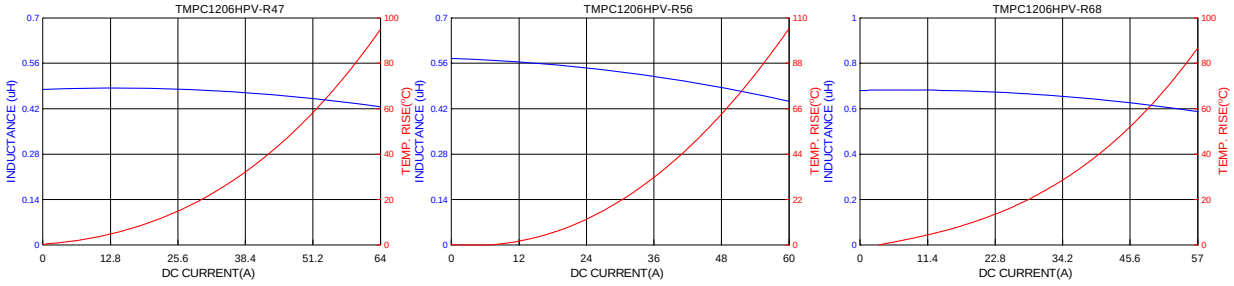
5. Specification

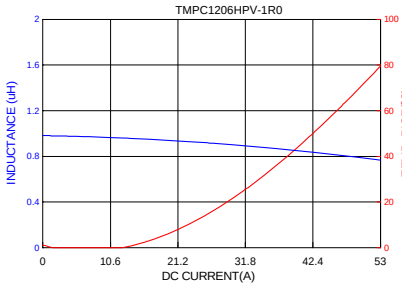
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat 1 (A) Typ.	I sat 2 (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1206HPV-R47MG-D	0.47	38	60	64	0.92	1.3	non-leadframe
TMPC1206HPV-R56MG-D	0.56	35	56	60	1.15	1.5	non-leadframe
TMPC1206HPV-R68MG-D	0.68	33	53	57	1.33	1.7	non-leadframe
TMPC1206HPV-1R0MG-D	1.00	29	45	53	1.8	2.4	non-leadframe
TMPC1206HPV-1R2MG-D	1.20	28	44	51	2.1	2.8	non-leadframe
TMPC1206HPV-1R5MG-D	1.50	26	43	50	2.7	3.2	non-leadframe
TMPC1206HPV-1R9MG-D	1.90	22	36	44	3.7	4.3	leadframe
TMPC1206HPV-2R2MG-D	2.20	21	34	43	4.0	4.7	leadframe
TMPC1206HPV-2R7MG-D	2.70	19	31	40	4.6	5.4	leadframe
TMPC1206HPV-3R3MG-D	3.30	17	28	35	5.8	7.1	leadframe
TMPC1206HPV-4R7MG-D	4.70	16	25	30	9.5	11.5	leadframe
TMPC1206HPV-5R6MG-D	5.60	15.5	22	28	10.8	12.6	leadframe
TMPC1206HPV-6R8MG-D	6.80	15	19	25	12	13.8	leadframe
TMPC1206HPV-8R2MG-D	8.20	11	17	23	13.6	16	leadframe
TMPC1206HPV-100MG-D	10.0	11	15.5	21	18	20.7	leadframe
TMPC1206HPV-120MG-D	12.0	9.5	13.5	18	20	23	leadframe
TMPC1206HPV-150MG-D	15.0	9.0	13	16	25	29	leadframe
TMPC1206HPV-180MG-D	18.0	8.5	12	15	30	35	leadframe
TMPC1206HPV-220MG-D	22.0	8.0	11	14	34	39.5	leadframe
TMPC1206HPV-270MG-D	27.0	7.0	9.0	13	49	56	leadframe
TMPC1206HPV-330MG-D	33.0	6.0	8.0	12.0	65	75	leadframe
TMPC1206HPV-470MG-D	47.0	5.5	7.0	11.0	80	90	leadframe
TMPC1206HPV-560MG-D	56.0	5.3	6.5	10	101	118	leadframe
TMPC1206HPV-680MG-D	68.0	5.0	6.0	9.0	120	140	leadframe
.TMPC1206HPV-820MG-D	82.0	4.5	5.5	8.5	138	161	leadframe
TMPC1206HPV-101MG-D	100	4.0	5.0	8.0	180	200	leadframe
TMPC1206HPV-121MG-D	120	3.5	4.5	7.0	210	235	leadframe
TMPC1206HPV-151MG-D	150	3.0	4.0	6.0	300	350	leadframe

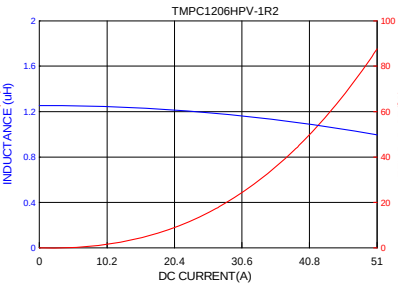
Note:

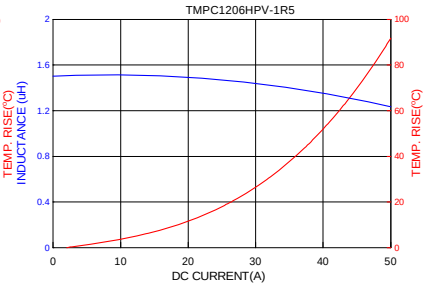
1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40℃.
5. Saturation Current (Isat 1) will cause L0 to drop approximately 20%.
   Saturation Current (Isat 2) will cause L0 to drop approximately 30%
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

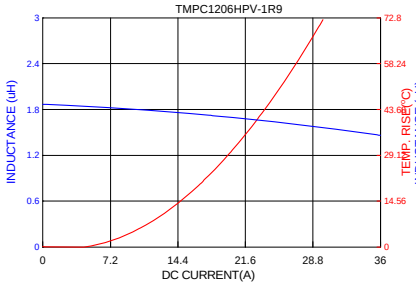
6. Typical Performance Curves

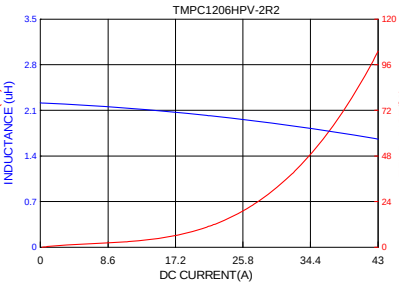


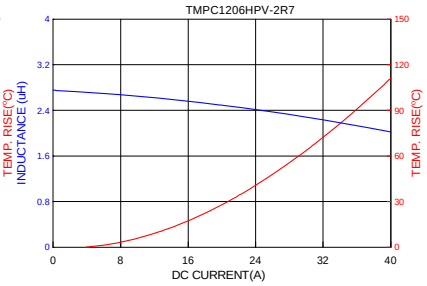


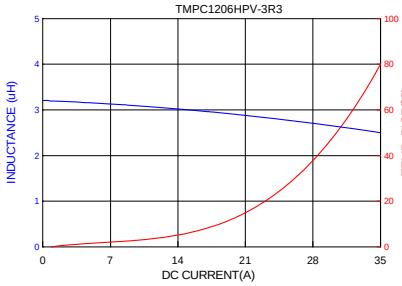


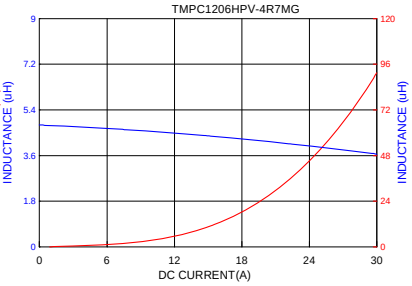


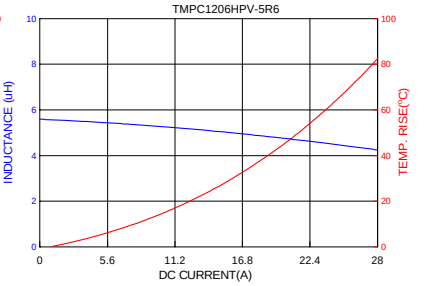


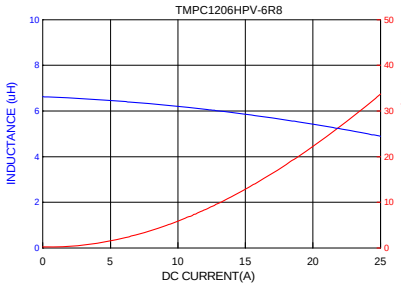


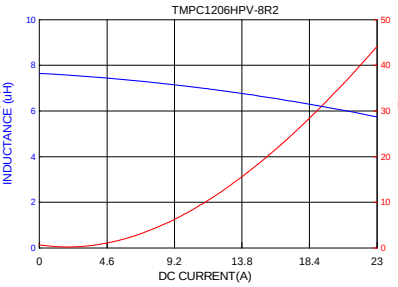


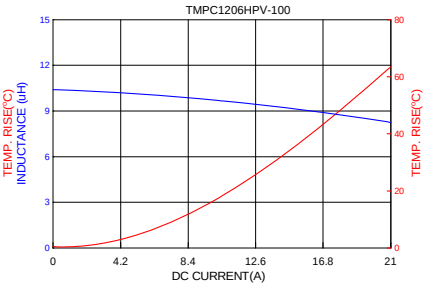


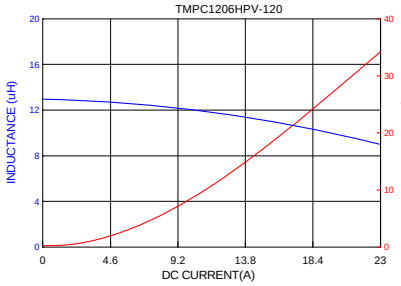


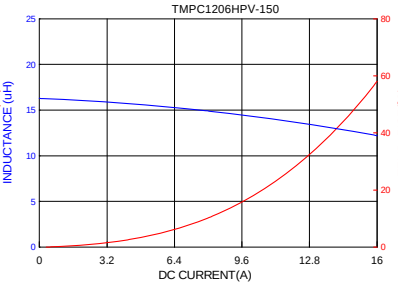


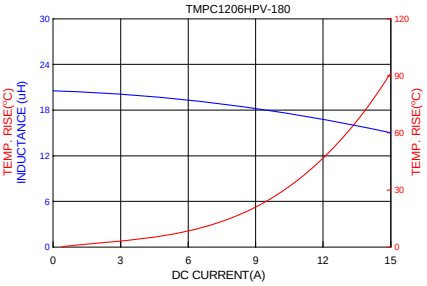


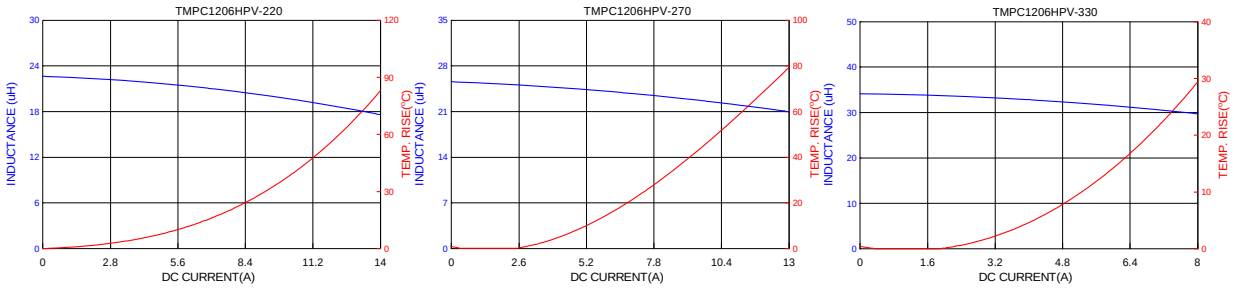


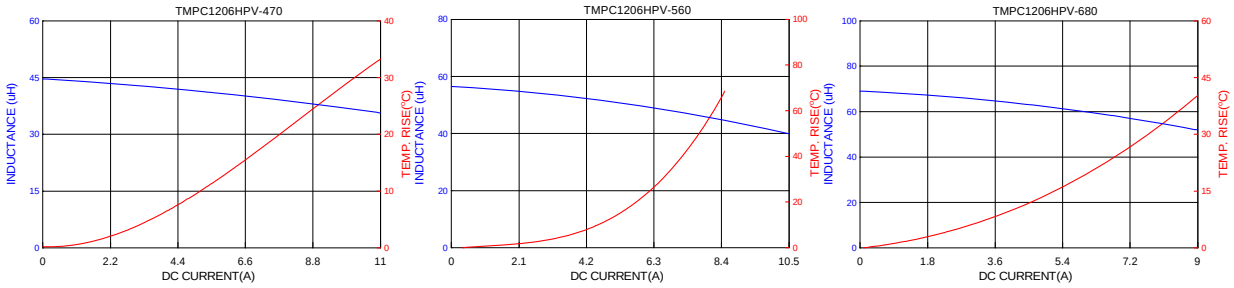


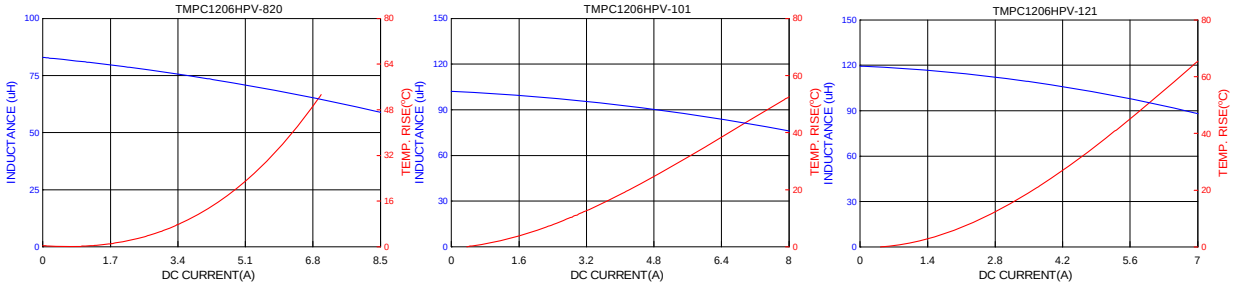


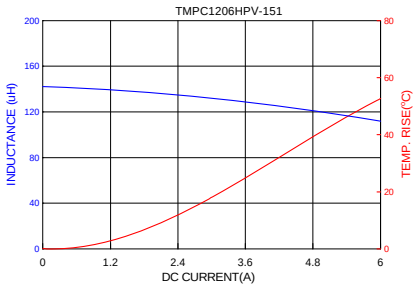





TMPC1206HPV-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-270
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-330
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1206HPV-470
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-560
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-680
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1206HPV-820
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-101
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
TMPC1206HPV-121
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1206HPV-151
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

SMD Power Inductor

TMPC1235HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

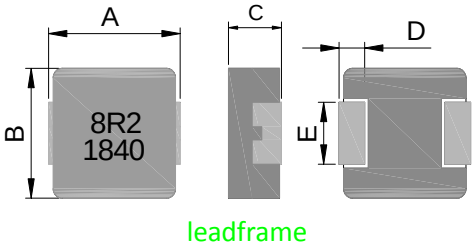
Halogen-free

RoHS

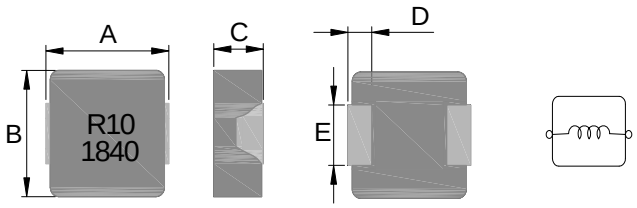
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



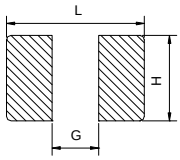
leadframe



non-leadframe

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1235HPV	13.5±0.5	12.5±0.3	3.3±0.2	2.3±0.3	4.7±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
14.2	8.0	5.0

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1235	HPV	-	8R2	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	HPV:H:Carbonyl Powder,P:PAD broaden. V: vehicle.
D: Inductance	8R2=8.20uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色.8R2 及 D/C 1840 (18 年,40 週期)(依實際生產日期而定)

5. Specification

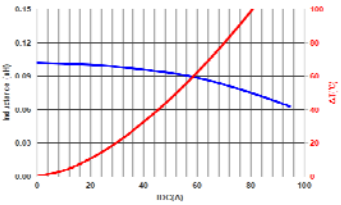
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1235HPV-R10YG-D	0.10±30%	43	84	0.36	0.43	non-leadframe
TMPC1235HPV-R15YG-D	0.15±30%	41	75	0.4	0.48	non-leadframe
TMPC1235HPV-R22MG-D	0.22	38.5	65	0.7	0.81	non-leadframe
TMPC1235HPV-R33MG-D	0.33	36.5	62	0.85	1.0	non-leadframe
TMPC1235HPV-R36MG-D	0.36	36	60	0.87	1.1	non-leadframe
TMPC1235HPV-R45MG-D	0.45	33	58	1.05	1.5	non-leadframe
TMPC1235HPV-R47MG-D	0.47	32	55	1.2	1.8	non-leadframe
TMPC1235HPV-R56MG-D	0.56	30	53	1.3	1.9	non-leadframe
TMPC1235HPV-R60MG-D	0.60	29	51	1.5	2.2	non-leadframe
TMPC1235HPV-R68MG-D	0.68	28	49	1.9	2.5	non-leadframe
TMPC1235HPV-R82MG-D	0.82	25	44	2.2	3.0	leadframe
TMPC1235HPV-1R0MG-D	1.00	24	40	2.7	3.5	leadframe
TMPC1235HPV-1R2MG-D	1.20	21	37	4.0	5.0	leadframe
TMPC1235HPV-1R5MG-D	1.50	19	35	4.8	5.5	leadframe
TMPC1235HPV-1R8MG-D	1.80	17	30	5.2	7.0	leadframe
TMPC1235HPV-2R2MG-D	2.20	16	29	6.3	8.0	leadframe
TMPC1235HPV-3R3MG-D	3.30	12	27	11	13.5	leadframe
TMPC1235HPV-4R7MG-D	4.70	10	24	15.3	18.5	leadframe
TMPC1235HPV-5R6MG-D	5.60	9.5	19	18	22	leadframe
TMPC1235HPV-6R8MG-D	6.80	9	18	20	24	leadframe
TMPC1235HPV-8R2MG-D	8.20	8.5	16	23	28	leadframe
TMPC1235HPV-100MG-D	10.0	7	14	29	34	leadframe
TMPC1235HPV-330MG-D	33.0	3.5	6.0	132	160	leadframe

Note:

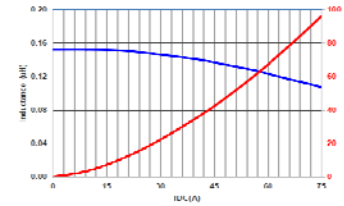
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves

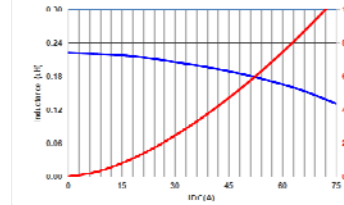
TMPC1235-R10



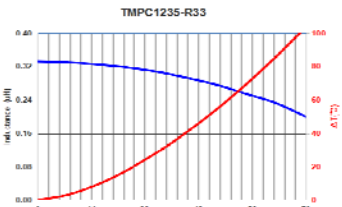
TMPC1235-R15



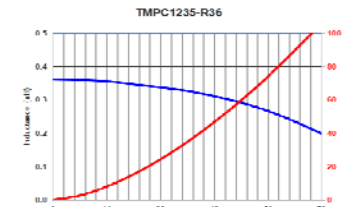
TMPC1235-R22



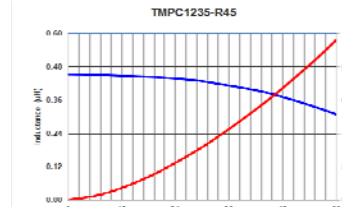
TMPC1235-R33



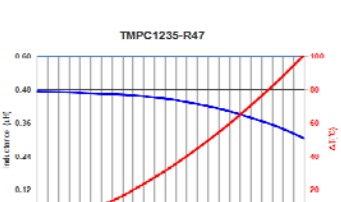
TMPC1235-R36



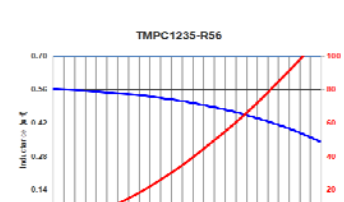
TMPC1235-R45



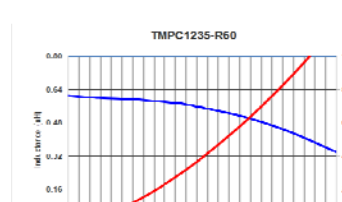
TMPC1235-R47



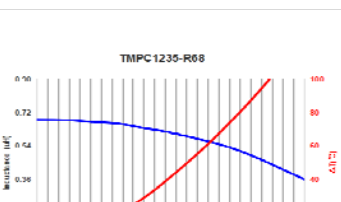
TMPC1235-R56



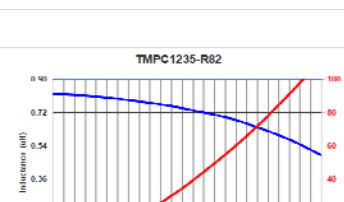
TMPC1235-R60



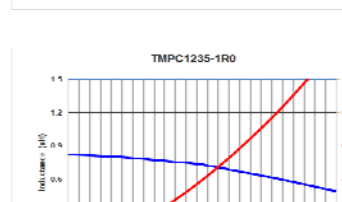
TMPC1235-R68



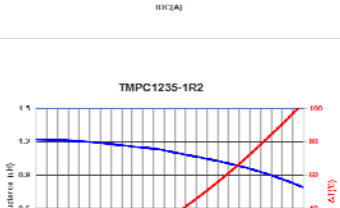
TMPC1235-R82



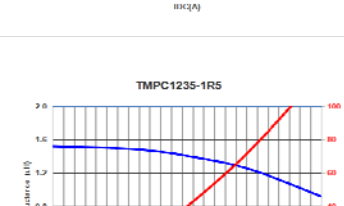
TMPC1235-1R0



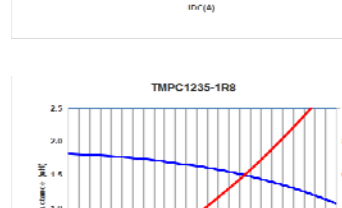
TMPC1235-1R2



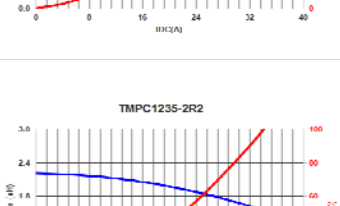
TMPC1235-1R5



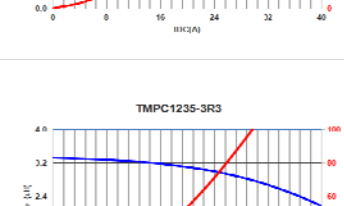
TMPC1235-1R8



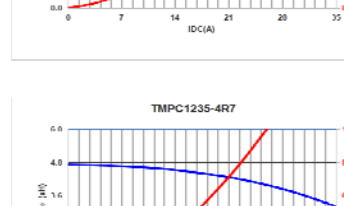
TMPC1235-2R2

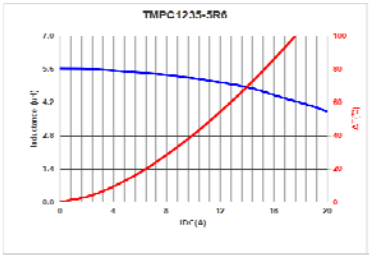


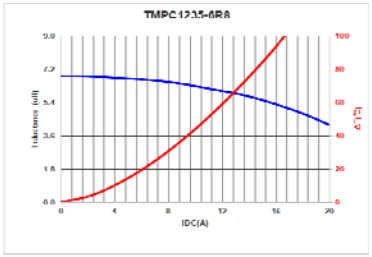
TMPC1235-3R3

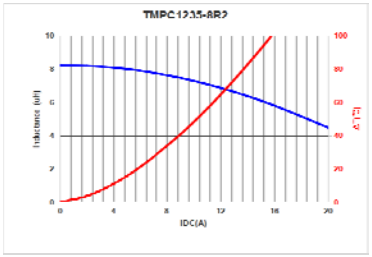


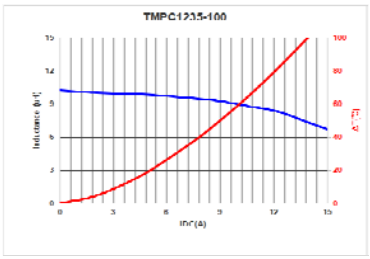
TMPC1235-4R7

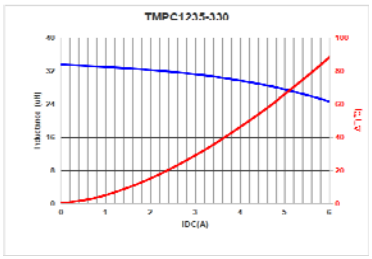



TMPC1235-5R6
IDC(A)


TMPC1235-6R8
IDC(A)


TMPC1235-8R2
IDC(A)


TMPC1235-100
IDC(A)


TMPC1235-330
IDC(A)

SMD Power Inductor

TMPC1265HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

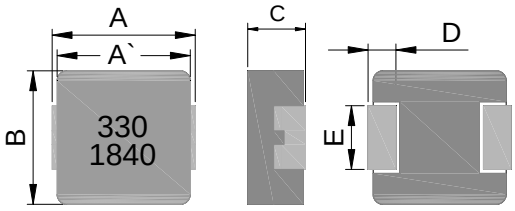
Halogen-free

RoHS

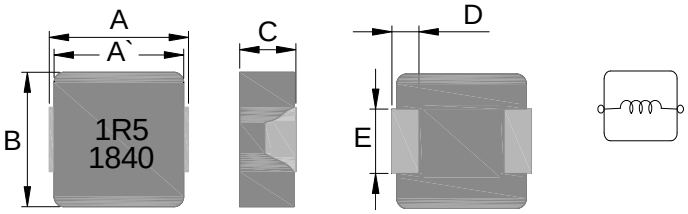
2. Applications

Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions

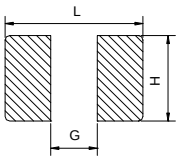


leadframe



non-leadframe

Recommend PC Board Pattern



Series	A(mm)	A'(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1265HPV	13.5±0.5	12.5±0.3	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3

L(mm)	G(mm)	H(mm)
14.2	8.0	5.0

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering

TMPC	1265	HPV	-	330	MG	-	D
A	B	C		D	E		F

A: Series
B: Dimension — BxC
C: Type — HP:H:Carbonyl Powder,P:PAD broaden. V: vehicle.
D: Inductance — 330=33.0uH
E: Inductance Tolerance — M=±20%.
F: 印 D/C — 印字:黑色.330 及 D/C 1840 (18 年,40 週期)(依實際生產日期而定)

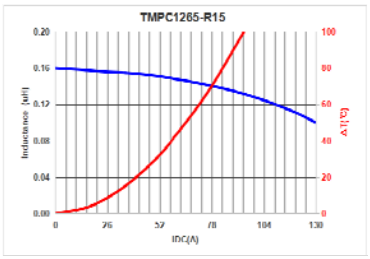
5. Specification

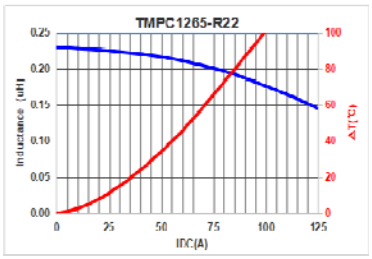
Part Number	Inductance L0 (uH)±20%	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃	Type
TMPC1265HPV-R15MG-D	0.15	55	118	0.49	0.60	non-leadframe
TMPC1265HPV-R22MG-D	0.22	53	112	0.47	0.60	non-leadframe
TMPC1265HPV-R30MG-D	0.30	48	72	0.6	0.72	non-leadframe
TMPC1265HPV-R33MG-D	0.33	46	68	0.65	0.8	non-leadframe
TMPC1265HPV-R36MG-D	0.36	45	66	0.7	0.9	non-leadframe
TMPC1265HPV-R40MG-D	0.40	44	64	0.7	1.0	non-leadframe
TMPC1265HPV-R47MG-D	0.47	41	63	0.9	1.2	non-leadframe
TMPC1265HPV-R50MG-D	0.50	40	60	0.92	1.25	non-leadframe
TMPC1265HPV-R56MG-D	0.56	37	58	1.05	1.2	non-leadframe
TMPC1265HPV-R68MG-D	0.68	35	55	1.25	1.5	non-leadframe
TMPC1265HPV-R82MG-D	0.82	33	50	1.5	1.9	non-leadframe
TMPC1265HPV-1R0MG-D	1.00	30	48	1.7	2.3	non-leadframe
TMPC1265HPV-1R5MG-D	1.50	27	45	2.5	3.0	non-leadframe
TMPC1265HPV-1R8MG-D	1.80	24	40	3.6	4.0	leadframe
TMPC1265HPV-2R2MG-D	2.20	22	37	3.8	4.2	leadframe
TMPC1265HPV-3R3MG-D	3.30	18	30	5.7	6.8	leadframe
TMPC1265HPV-4R7MG-D	4.70	13.5	28	7.0	8.4	leadframe
TMPC1265HPV-5R6MG-D	5.60	12.5	23	8.5	10	leadframe
TMPC1265HPV-6R8MG-D	6.80	11.5	18	9.5	11.5	leadframe
TMPC1265HPV-8R2MG-D	8.20	10.5	16	12	15.5	leadframe
TMPC1265HPV-100MG-D	10.0	10.0	15.5	13.2	16.5	leadframe
TMPC1265HPV-120MG-D	12.0	9.5	14	16	20	leadframe
TMPC1265HPV-130MG-D	13.0	9	13	21	24	leadframe
TMPC1265HPV-150MG-D	15.0	9	12.5	23.2	28	leadframe
TMPC1265HPV-220MG-D	22.0	9	12	32.5	37	leadframe
TMPC1265HPV-330MG-D	33.0	8	11	48	58	leadframe
TMPC1265HPV-470MG-D	47.0	6.5	9.5	76	90	leadframe
TMPC1265HPV-680MG-D	68.0	4.8	7.8	110	130	leadframe
TMPC1265HPV-101MG-D	100	4.2	5.5	145	165	leadframe

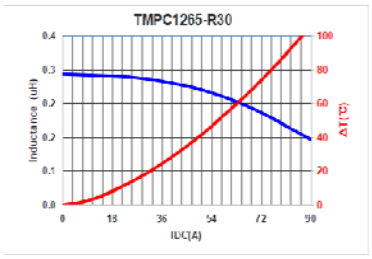
Note:

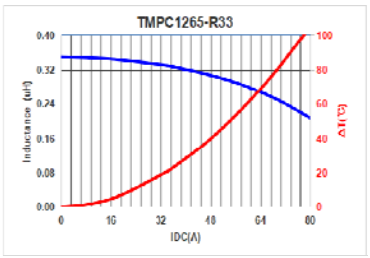
1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument(or equ) : L: HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

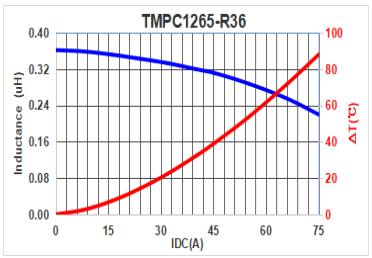
6. Typical Performance Curves

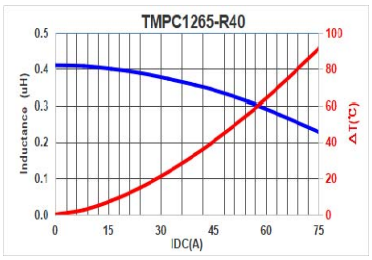


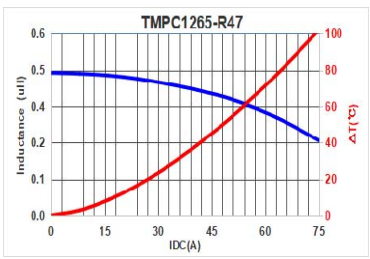


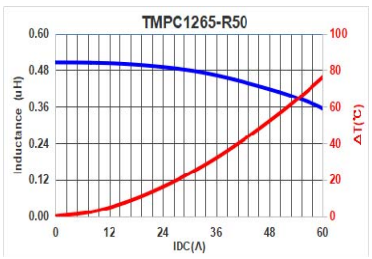


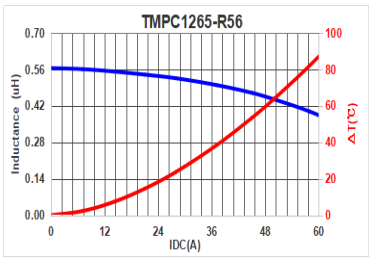


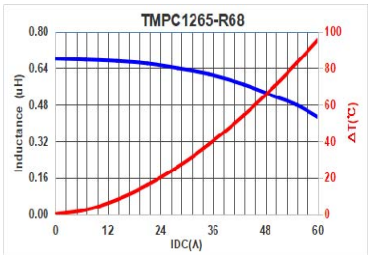


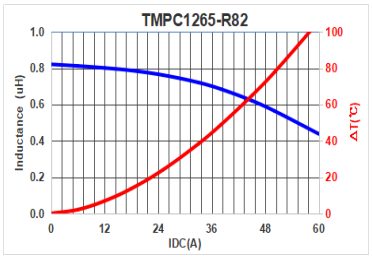


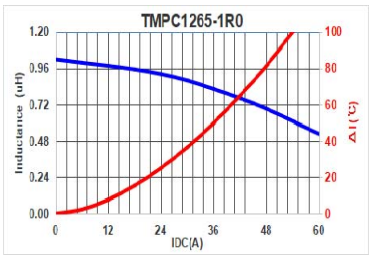


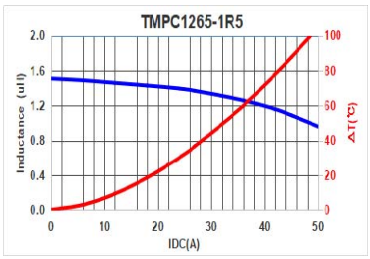


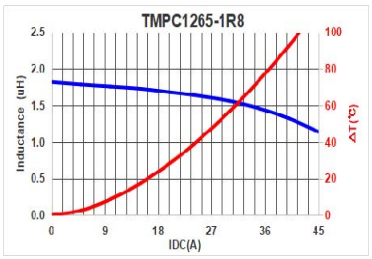


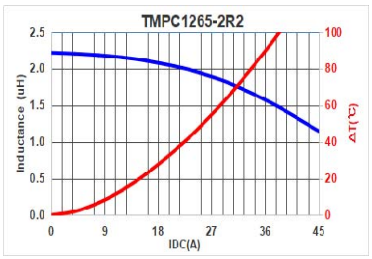


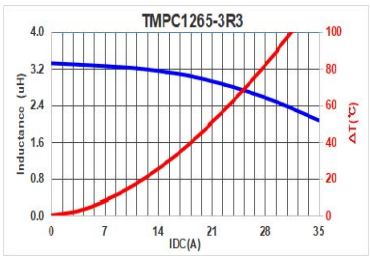


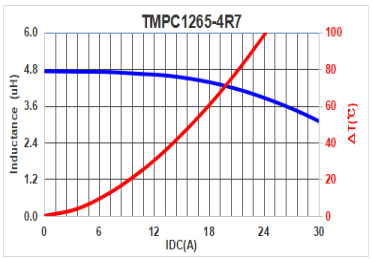


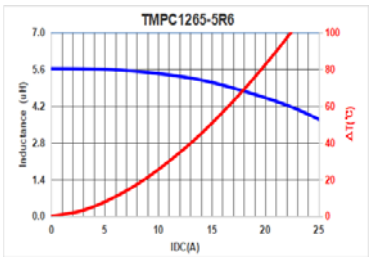


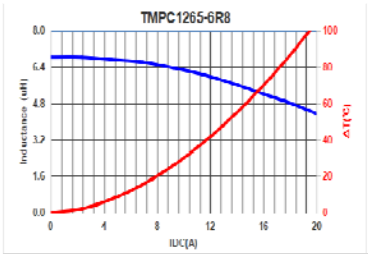


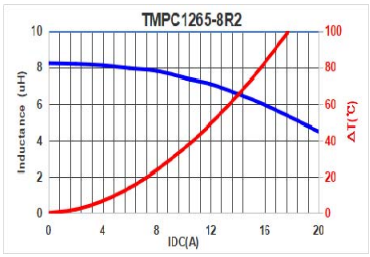


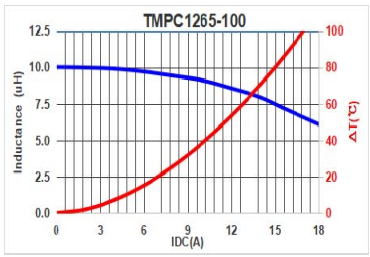


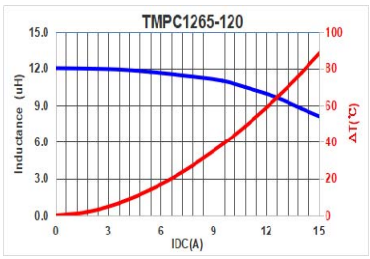


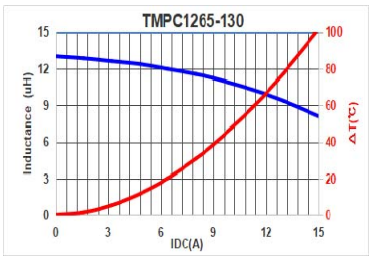


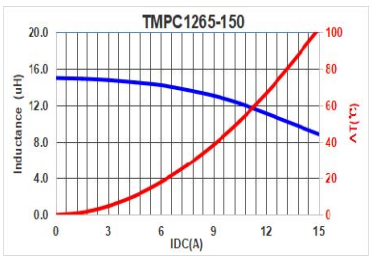

TMPC1265-6R8
Inductance (uH)
ΔT(℃)
IDC(A)

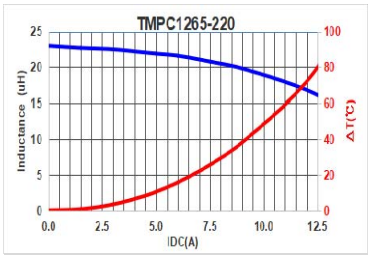

TMPC1265-8R2
Inductance (uH)
ΔT(℃)
IDC(A)

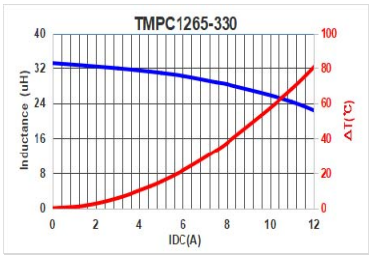

TMPC1265-100
Inductance (uH)
ΔT(℃)
IDC(A)

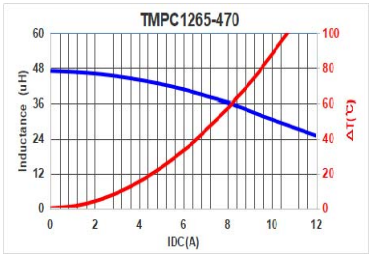

TMPC1265-120
Inductance (uH)
ΔT(℃)
IDC(A)

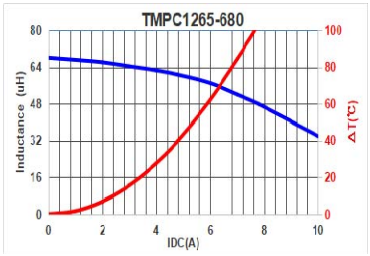

TMPC1265-130
Inductance (uH)
ΔT(℃)
IDC(A)

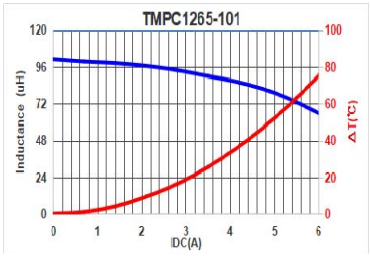

TMPC1265-150
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1265-220
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1265-330
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1265-470
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1265-680
Inductance (uH)
ΔT(℃)
IDC(A)


TMPC1265-101
Inductance (uH)
ΔT(℃)
IDC(A)

SMD Power Inductor

TMPC1707HPV-Series(G)-D

1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. High reliability -Reliability test complied to AEC-Q200.
8. Operating temperature: -55~+125℃(Including self-temperature rise)

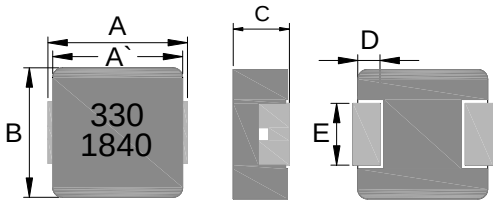
Halogen-free

RoHS

2. Applications

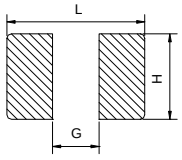
Note PC power system，incl. IMVP-6
DC/DC converter .

3. Dimensions



Series	A(mm)	A'(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1707HPV	17.6±0.4	16.9±0.3	16.9±0.3	6.7±0.3	2.1±0.3	11.9±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
18.5	12.2	12.5

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.17mm and above.

4. Part Numbering

TMPC	1707	HPV	-	330	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	HP:H:Carbonyl Powder,P:PAD broaden. V: Vehicle.
D: Inductance	330=33.0uH
E: Inductance Tolerance	M=±20%
F: 印 D/C	印字:黑色. 330 及 D/C 1840(18 年,40 週期,依實際生產周期而定)

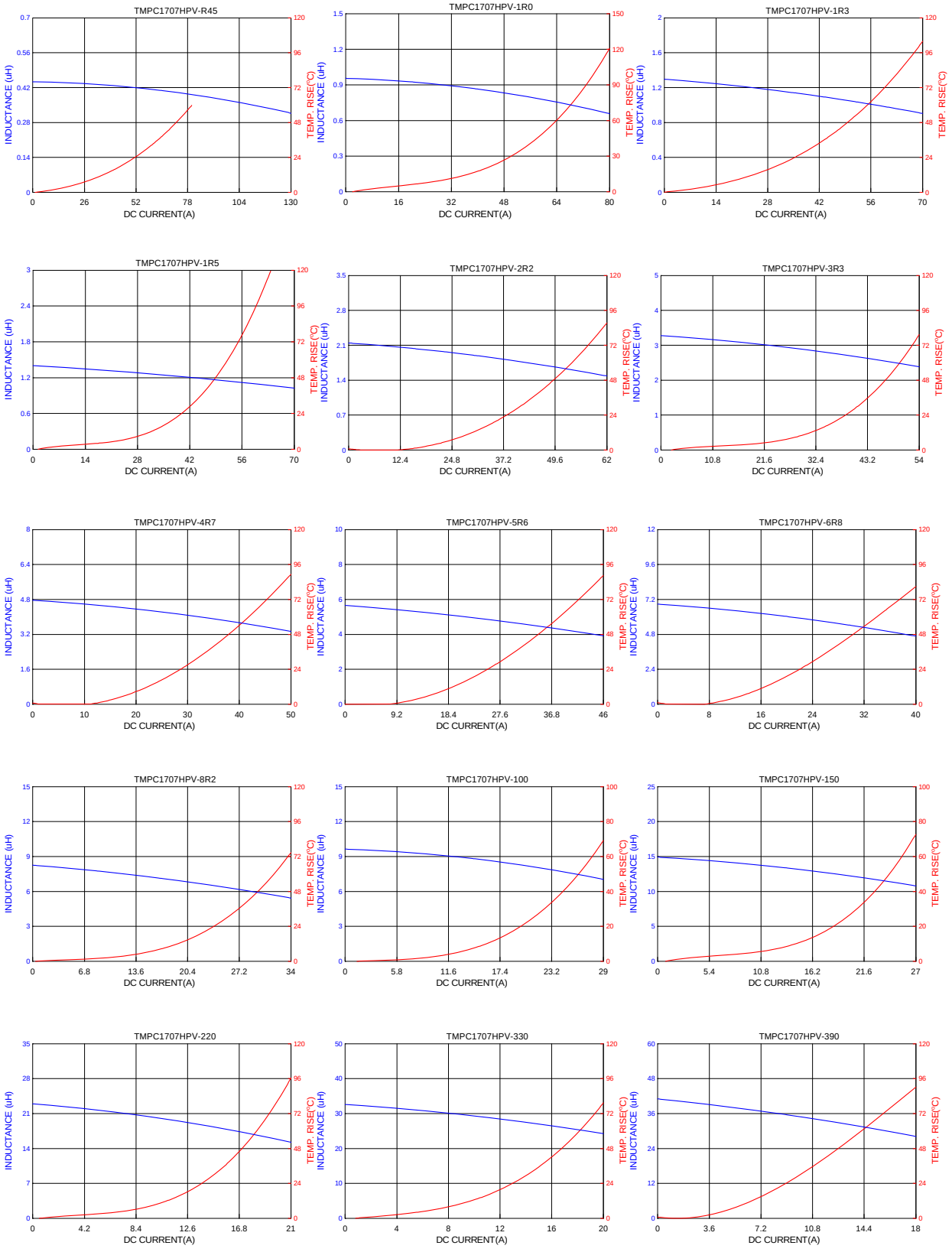
5. Specification

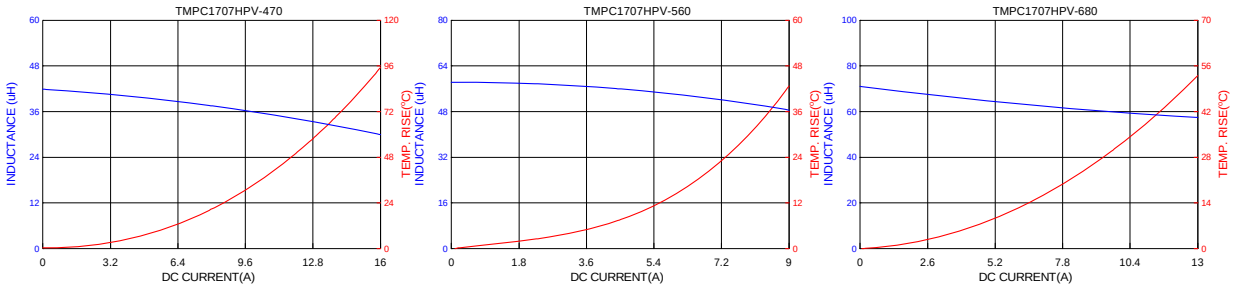
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat 1(A) Typ.	I sat2 (A) Typ.	DCR (mΩ) Typ. @25℃	DCR (mΩ) Max. @25℃
TMPC1707HPV-R45MG-D	0.45	62	85	125	0.8	0.96
TMPC1707HPV-1R0MG-D	1.00	52	60	70	1.6	2.0
TMPC1707HPV-1R3MG-D	1.30	49	54	67	1.7	2.3
TMPC1707HPV-1R5MG-D	1.50	47	52	65	2.0	2.5
TMPC1707HPV-2R2MG-D	2.20	43.5	47	62	2.4	2.7
TMPC1707HPV-3R3MG-D	3.30	28	45	54	3.5	3.9
TMPC1707HPV-4R7MG-D	4.70	25	41	50	4.8	5.5
TMPC1707HPV-5R6MG-D	5.60	21	40	45	5.8	7.05
TMPC1707HPV-6R8MG-D	6.80	19	32	39	8.4	9.2
TMPC1707HPV-8R2MG-D	8.20	18	25	31	9.6	10.8
TMPC1707HPV-100MG-D	10.0	16.5	24	29	11.8	13.0
TMPC1707HPV-150MG-D	15.0	12.5	23	27	17.8	20.5
TMPC1707HPV-220MG-D	22.0	12	18	23	25.1	26.5
TMPC1707HPV-330MG-D	33.0	10.7	15	20	38.0	44.0
TMPC1707HPV-390MG-D	39.0	9.2	11	18	40.0	48.0
TMPC1707HPV-470MG-D	47.0	8.7	9.5	16	48.0	55.0
TMPC1707HPV-560MG-D	56.0	7.8	9.0	15	54.0	62.0
TMPC1707HPV-680MG-D	68.0	7.0	8.0	13	68.0	80.0
TMPC1707HPV-101MG-D	100	5.3	6.5	12	102.0	118.0

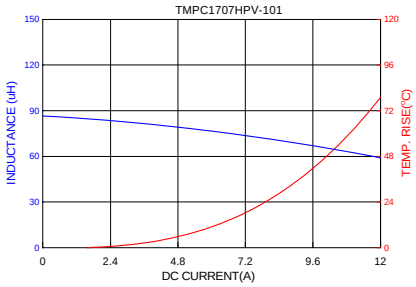
Note:

1. Test frequency : L/Q: 100KHz /1.0V.
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ∆t of 40℃
5. Saturation Current (Isat1) will cause L0 to drop approximately 20%
   Saturation Current (Isat2) will cause L0 to drop approximately 30%
6. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves




TMPC1707HPV-470
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
12
24
36
48
60
0
24
48
72
96
120
0
3.2
6.4
9.6
12.8
16
TMPC1707HPV-560
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
16
32
48
64
80
0
12
24
36
48
60
0
1.8
3.6
5.4
7.2
9
TMPC1707HPV-680
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
20
40
60
80
100
0
14
28
42
56
70
0
2.6
5.2
7.8
10.4
13


TMPC1707HPV-101
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)
0
30
60
90
120
150
0
24
48
72
96
120
0
2.4
4.8
7.2
9.6
12