SMD Type Power Inductor

FPI0302BM-SERIES

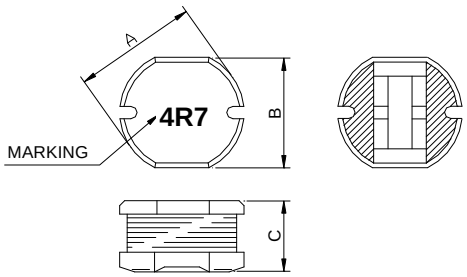
1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

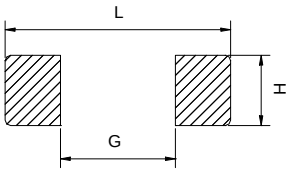
Halogen-free

Pb-free

2. Dimension



Recommended Land pattern



Size	A(mm)	B(mm)	C(mm)
FPI 0302	3.50±0.3	3.00±0.3	2.10±0.3

L(mm)	G(mm)	H(mm)
3.7	1.1	3.3

3. Part Numbering

FPI	0302	BM	-	4R7	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0302BM-1R0M	1.0	± 20%	1V/7.96M	0.04	1.50
FPI 0302BM-1R4M	1.4	± 20%	1V/7.96M	0.05	1.50
FPI 0302BM-1R8M	1.8	± 20%	1V/7.96M	0.06	0.80
FPI 0302BM-2R2M	2.2	± 20%	1V/7.96M	0.08	0.75
FPI 0302BM-2R7M	2.7	± 20%	1V/7.96M	0.10	0.75
FPI 0302BM-3R3M	3.3	± 20%	1V/7.96M	0.15	0.60
FPI 0302BM-3R9M	3.9	± 20%	1V/7.96M	0.20	0.50
FPI 0302BM-4R7M	4.7	± 20%	1V/7.96M	0.20	0.50
FPI 0302BM-5R6M	5.6	± 20%	1V/7.96M	0.23	0.45
FPI 0302BM-6R8M	6.8	± 20%	1V/7.96M	0.25	0.40
FPI 0302BM-8R2M	8.2	± 20%	1V/7.96M	0.30	0.40
FPI 0302BM-100M	10	± 20%	1V/2.52M	0.35	0.35
FPI 0302BM-120M	12	± 20%	1V/2.52M	0.40	0.35
FPI 0302BM-150M	15	± 20%	1V/2.52M	0.50	0.30
FPI 0302BM-180M	18	± 20%	1V/2.52M	0.55	0.30
FPI 0302BM-220M	22	± 20%	1V/2.52M	0.60	0.30
FPI 0302BM-270M	27	± 20%	1V/2.52M	0.70	0.30
FPI 0302BM-330M	33	± 20%	1V/2.52M	1.00	0.25
FPI 0302BM-390M	39	± 20%	1V/2.52M	1.20	0.25
FPI 0302BM-470M	47	± 20%	1V/2.52M	1.50	0.20
FPI 0302BM-560M	56	± 20%	1V/2.52M	1.80	0.20
FPI 0302BM-680M	68	± 20%	1V/2.52M	2.00	0.18
FPI 0302BM-820M	82	± 20%	1V/2.52M	2.50	0.16
FPI 0302BM-101M	100	± 20%	1V/1K	3.00	0.15
FPI 0302BM-121M	120	± 20%	1V/1K	3.50	0.14
FPI 0302BM-151M	150	± 20%	1V/1K	4.00	0.13
FPI 0302BM-181M	180	± 20%	1V/1K	5.00	0.12
FPI 0302BM-221M	220	± 20%	1V/1K	5.50	0.10
FPI 0302BM-271M	270	± 20%	1V/1K	6.00	0.10
FPI 0302BM-331M	330	± 20%	1V/1K	7.00	0.10
FPI 0302BM-391M	390	± 20%	1V/1K	8.00	0.10
FPI 0302BM-471M	470	± 20%	1V/1K	12.00	0.09

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）

SMD Type Power Inductor

FPI0403BM-SERIES

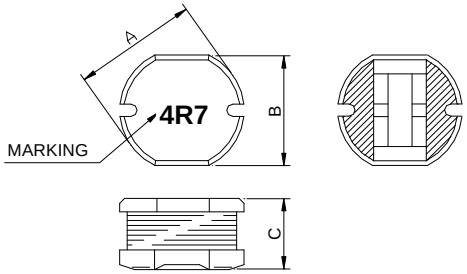
1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

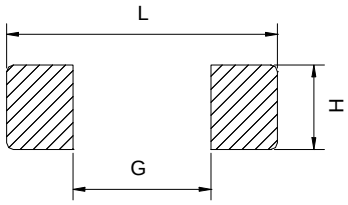
Halogen-free

Pb-free

2. Dimension



Recommended Land pattern



Size	A(mm)	B(mm)	C(mm)
FPI 0403	4.50±0.3	4.00±0.3	3.20±0.3

L(mm)	G(mm)	H(mm)
5.0	1.5	4.5

3. Part Numbering

FPI	0403	BM	-	4R7	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0403BM-1R0M	1.0	± 20%	1V/7.96M	0.03	4.00
FPI 0403BM-1R4M	1.4	± 20%	1V/7.96M	0.04	3.50
FPI 0403BM-1R8M	1.8	± 20%	1V/7.96M	0.05	3.00
FPI 0403BM-2R2M	2.2	± 20%	1V/7.96M	0.06	2.60
FPI 0403BM-2R7M	2.7	± 20%	1V/7.96M	0.06	2.20
FPI 0403BM-3R3M	3.3	± 20%	1V/7.96M	0.07	2.00
FPI 0403BM-3R9M	3.9	± 20%	1V/7.96M	0.07	2.00
FPI 0403BM-4R7M	4.7	± 20%	1V/7.96M	0.08	1.90
FPI 0403BM-5R6M	5.6	± 20%	1V/7.96M	0.12	1.80
FPI 0403BM-6R8M	6.8	± 20%	1V/7.96M	0.14	1.60
FPI 0403BM-8R2M	8.2	± 20%	1V/7.96M	0.15	1.40
FPI 0403BM-100M	10	± 20%	1V/2.52M	0.19	1.10
FPI 0403BM-120M	12	± 20%	1V/2.52M	0.21	1.10
FPI 0403BM-150M	15	± 20%	1V/2.52M	0.25	1.00
FPI 0403BM-180M	18	± 20%	1V/2.52M	0.30	1.00
FPI 0403BM-220M	22	± 20%	1V/2.52M	0.35	1.00
FPI 0403BM-270M	27	± 20%	1V/2.52M	0.45	0.75
FPI 0403BM-330M	33	± 20%	1V/2.52M	0.60	0.70
FPI 0403BM-390M	39	± 20%	1V/2.52M	0.70	0.65
FPI 0403BM-470M	47	± 20%	1V/2.52M	0.80	0.60
FPI 0403BM-560M	56	± 20%	1V/2.52M	0.85	0.55
FPI 0403BM-680M	68	± 20%	1V/2.52M	1.00	0.50
FPI 0403BM-820M	82	± 20%	1V/2.52M	1.10	0.46
FPI 0403BM-101M	100	± 20%	1V/1K	1.20	0.22
FPI 0403BM-121M	120	± 20%	1V/1K	1.60	0.20
FPI 0403BM-151M	150	± 20%	1V/1K	2.00	0.20
FPI 0403BM-181M	180	± 20%	1V/1K	3.00	0.20
FPI 0403BM-221M	220	± 20%	1V/1K	3.00	0.20
FPI 0403BM-271M	270	± 20%	1V/1K	4.00	0.16
FPI 0403BM-331M	330	± 20%	1V/1K	4.00	0.14
FPI 0403BM-391M	390	± 20%	1V/1K	5.00	0.12
FPI 0403BM-471M	470	± 20%	1V/1K	6.00	0.12
FPI 0403BM-561M	560	± 20%	1V/1K	7.00	0.10

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）

SMD Type Power Inductor

FPI0503BM-SERIES

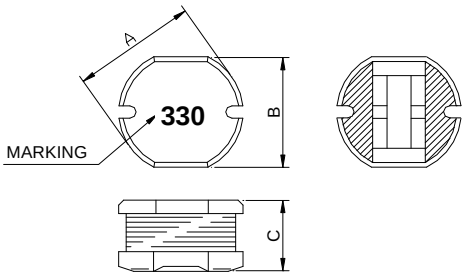
1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

Pb-free

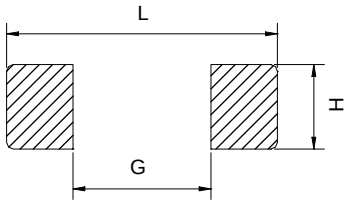
2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0503BM	5.80±0.3	5.20±0.3	3.00±0.3

Unit: mm

Recommended Land pattern



L(mm)	G(mm)	H(mm)
6.0	1.7	5.5

3. Part Numbering

FPI	0503	BM	-	330	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 330=33.0uH
E: Inductance Tolerance — M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)		DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
	Tolerance	Test Frequency (Hz)			
FPI0503BM-1R5M	1.50±20%	1V/100K	37	4.10	4.10
FPI0503BM-1R8M	1.80±20%	1V/7.96M	50	4.00	2.80
FPI0503BM-4R7M	4.70±20%	1V/7.96M	130	1.30	1.30
FPI0503BM-6R8M	6.80±20%	1V/7.96M	71.2	1.87	1.87
FPI0503BM-8R2M	8.20±20%	1V/7.96M	100	2.00	2.00
FPI0503BM-100M	10.0±20%	1V/2.52M	200	1.90	1.90
FPI0503BM-330M	33.0±20%	1V/2.52M	450	1.40	1.40

Note:
Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃
Based on temperature rise （△T：40℃ typ.）

SMD Type Power Inductor

FPI0504BM-SERIES

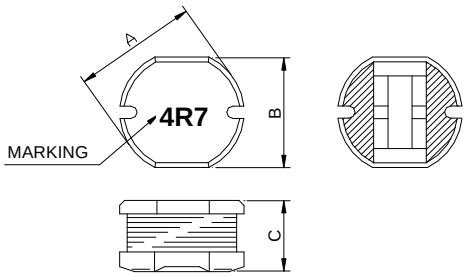
1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

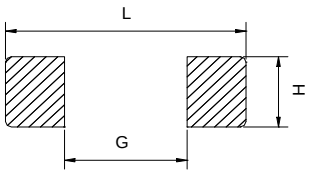
Pb-free

2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0504	5.80±0.3	5.20±0.3	4.50±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
6.0	1.7	5.5

3. Part Numbering

FPI	0504	BM	-	4R7	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0504BM-1R0M	1.0	± 20%	1V/7.96M	0.018	3.50
FPI 0504BM-1R4M	1.4	± 20%	1V/7.96M	0.020	3.50
FPI 0504BM-1R8M	1.8	± 20%	1V/7.96M	0.025	3.00
FPI 0504BM-2R2M	2.2	± 20%	1V/7.96M	0.030	2.80
FPI 0504BM-2R7M	2.7	± 20%	1V/7.96M	0.035	2.60
FPI 0504BM-3R3M	3.3	± 20%	1V/7.96M	0.040	2.50
FPI 0504BM-3R9M	3.9	± 20%	1V/7.96M	0.050	2.30
FPI 0504BM-4R7M	4.7	± 20%	1V/7.96M	0.060	2.60
FPI 0504BM-5R6M	5.6	± 20%	1V/7.96M	0.070	2.40
FPI 0504BM-6R8M	6.8	± 20%	1V/7.96M	0.080	2.20
FPI 0504BM-8R2M	8.2	± 20%	1V/7.96M	0.080	2.00
FPI 0504BM-100M	10	± 20%	1V/2.52M	0.090	1.80
FPI 0504BM-120M	12	± 20%	1V/2.52M	0.100	1.60
FPI 0504BM-150M	15	± 20%	1V/2.52M	0.120	1.50
FPI 0504BM-180M	18	± 20%	1V/2.52M	0.150	1.40
FPI 0504BM-220M	22	± 20%	1V/2.52M	0.180	1.30
FPI 0504BM-270M	27	± 20%	1V/2.52M	0.220	1.20
FPI 0504BM-330M	33	± 20%	1V/2.52M	0.260	1.00
FPI 0504BM-390M	39	± 20%	1V/2.52M	0.300	0.90
FPI 0504BM-470M	47	± 20%	1V/2.52M	0.350	0.85
FPI 0504BM-560M	56	± 20%	1V/2.52M	0.400	0.80
FPI 0504BM-680M	68	± 20%	1V/2.52M	0.450	0.70
FPI 0504BM-820M	82	± 20%	1V/2.52M	0.500	0.70
FPI 0504BM-101M	100	± 20%	1V/1K	0.700	0.60
FPI 0504BM-121M	120	± 20%	1V/1K	0.750	0.60
FPI 0504BM-151M	150	± 20%	1V/1K	0.900	0.55
FPI 0504BM-181M	180	± 20%	1V/1K	1.100	0.50
FPI 0504BM-221M	220	± 20%	1V/1K	1.200	0.40
FPI 0504BM-271M	270	± 20%	1V/1K	1.500	0.25
FPI 0504BM-331M	330	± 20%	1V/1K	3.000	0.22
FPI 0504BM-391M	390	± 20%	1V/1K	3.500	0.20
FPI 0504BM-471M	470	± 20%	1V/1K	4.000	0.19
FPI 0504BM-561M	560	± 20%	1V/1K	4.000	0.18
FPI 0504BM-681M	680	± 20%	1V/1K	4.500	0.15

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）

SMD Type Power Inductor

FPI0703BM-SERIES

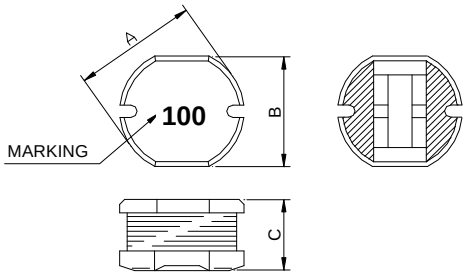
1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

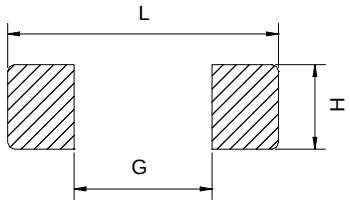
Pb-free

2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0703	7.80±0.3	7.00±0.3	3.50±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
8.0	2.0	7.5

3. Part NumberingTAI-TECH

FPI	0703	BM	-	100	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 100=10uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0703BM-100M	10	± 20%	1V/2.52M	0.0803	1.44
FPI 0703BM-120M	12	± 20%	1V/2.52M	0.0897	1.39
FPI 0703BM-150M	15	± 20%	1V/2.52M	0.1040	1.24
FPI 0703BM-180M	18	± 20%	1V/2.52M	0.1110	1.12
FPI 0703BM-220M	22	± 20%	1V/2.52M	0.1290	1.07
FPI 0703BM-270M	27	± 20%	1V/2.52M	0.1530	0.97
FPI 0703BM-330M	33	± 20%	1V/2.52M	0.1700	0.85
FPI 0703BM-390M	39	± 20%	1V/2.52M	0.2170	0.74
FPI 0703BM-470M	47	± 20%	1V/2.52M	0.2520	0.68
FPI 0703BM-560K	56	± 10%	1V/2.52M	0.2820	0.64
FPI 0703BM-680K	68	± 10%	1V/2.52M	0.3320	0.59
FPI 0703BM-820K	82	± 10%	1V/2.52M	0.4060	0.54
FPI 0703BM-101K	100	± 10%	1V/1K	0.4810	0.51
FPI 0703BM-121K	120	± 10%	1V/1K	0.5360	0.49
FPI 0703BM-151K	150	± 10%	1V/1K	0.7550	0.40
FPI 0703BM-181K	180	± 10%	1V/1K	1.0220	0.36
FPI 0703BM-221K	220	± 10%	1V/1K	1.2000	0.31
FPI 0703BM-271K	270	± 10%	1V/1K	1.3060	0.29
FPI 0703BM-331K	330	± 10%	1V/1K	1.4950	0.28

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）

SMD Type Power Inductor

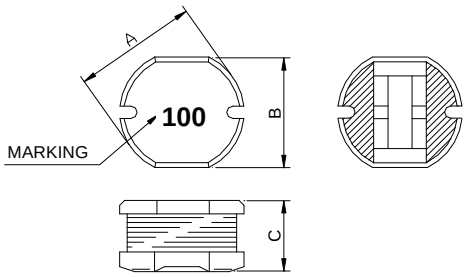
FPI0705BM-SERIES

1. Features

1.Excellent solderability and high heat resistance.
2.Excellent terminal strength construction.
3.Packed in embossed carrier tape and can be used by automatic mounting machine.
4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

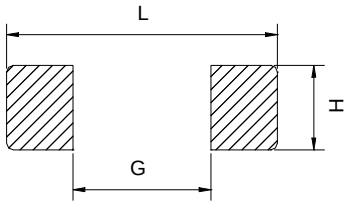
Halogen-free Pb-free

2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0705	7.80±0.3	7.00±0.3	5.00±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
8.0	2.0	7.5

3. Part Numbering

FPI	0705	BM	-	100	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 100=10uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0705BM-3R3M	3.30	± 20%	1V/7.96M	0.03	4.60
FPI 0705BM-4R7M	4.70	± 20%	1V/7.96M	0.04	4.20
FPI 0705BM-100M	10.0	± 20%	1V/2.52M	0.07	2.30
FPI 0705BM-120M	12.0	± 20%	1V/2.52M	0.08	2.00
FPI 0705BM-150M	15.0	± 20%	1V/2.52M	0.09	1.80
FPI 0705BM-180M	18.0	± 20%	1V/2.52M	0.10	1.60
FPI 0705BM-220M	22.0	± 20%	1V/2.52M	0.11	1.50
FPI 0705BM-270M	27.0	± 20%	1V/2.52M	0.12	1.30
FPI 0705BM-330M	33.0	± 20%	1V/2.52M	0.13	1.20
FPI 0705BM-390M	39.0	± 20%	1V/2.52M	0.16	1.10
FPI 0705BM-470K	47.0	± 10%	1V/2.52M	0.18	1.10
FPI 0705BM-560K	56.0	± 10%	1V/2.52M	0.24	0.94
FPI 0705BM-680K	68.0	± 10%	1V/2.52M	0.28	0.85
FPI 0705BM-820K	82.0	± 10%	1V/2.52M	0.37	0.78
FPI 0705BM-101K	100	± 10%	1V/1K	0.43	0.72
FPI 0705BM-121K	120	± 10%	1V/1K	0.47	0.66
FPI 0705BM-151K	150	± 10%	1V/1K	0.64	0.58
FPI 0705BM-181K	180	± 10%	1V/1K	0.71	0.51
FPI 0705BM-221K	220	± 10%	1V/1K	0.96	0.49
FPI 0705BM-271K	270	± 10%	1V/1K	1.11	0.42
FPI 0705BM-331K	330	± 10%	1V/1K	1.26	0.40
FPI 0705BM-391K	390	± 10%	1V/1K	1.77	0.36
FPI 0705BM-471K	470	± 10%	1V/1K	1.96	0.34

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）