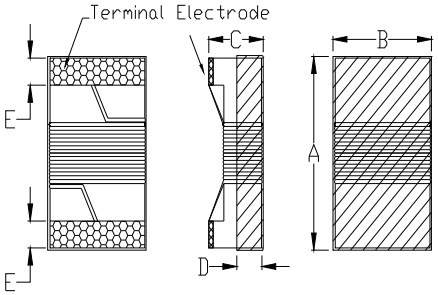
Winding Type Chip Inductor

SWF1608CV-SERIES

1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability comply with AEC-Q200
7. Operating temperature -55~+125℃(Including self - temperature rise)

2. Dimensions



Size	A	B	C	D	E
SWF1608	1.80 max.	1.20 max.	1.20 max.	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering

SWF	1608	C	V	-	47N	K
A	B	C	D		E	F

A: Series
B: Dimension L x W
C: Application DC Power Line
D: Category Code V=Vehicle
E: Inductance 47N=0.047 uH
F: Inductance Tolerance K=±10%; M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	SRF (MHz) min.	DCR (Ω) max.	Rated Current (mA) max.
SWF1608CV-47N□	0.047	K,M	0.5V/7.96M	10	7.96	1500	0.075	1400
SWF1608CV-R10□	0.10	K,M	0.5V/7.96M	10	7.96	1150	0.13	1400
SWF1608CV-R12□	0.12	K,M	0.5V/7.96M	10	7.96	1100	0.15	1400
SWF1608CV-R15□	0.15	K,M	0.5V/7.96M	10	7.96	1050	0.15	1300
SWF1608CV-R18□	0.18	K,M	0.5V/7.96M	10	7.96	950	0.15	1300
SWF1608CV-R22□	0.22	K,M	0.5V/7.96M	10	7.96	800	0.15	950
SWF1608CV-R24□	0.24	K,M	0.5V/7.96M	10	7.96	800	0.31	620
SWF1608CV-R27□	0.27	K,M	0.5V/7.96M	10	7.96	775	0.20	710
SWF1608CV-R33□	0.33	K,M	0.5V/7.96M	10	7.96	725	0.35	620
SWF1608CV-R39□	0.39	K,M	0.5V/7.96M	10	7.96	620	0.39	600
SWF1608CV-R47□	0.47	K,M	0.5V/7.96M	10	7.96	540	0.43	570
SWF1608CV-R56□	0.56	K,M	0.5V/7.96M	10	7.96	525	0.47	550
SWF1608CV-R68□	0.68	K,M	0.5V/7.96M	10	7.96	460	0.52	470
SWF1608CV-R82□	0.82	K,M	0.5V/7.96M	10	7.96	410	0.69	400
SWF1608CV-1R0□	1.0	K,M	0.5V/7.96M	10	7.96	190	0.81	400
SWF1608CV-1R2□	1.2	K,M	0.5V/7.96M	10	7.96	160	0.87	370

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	SRF (MHz) min.	DCR (Ω) max.	Rated Current (mA) max.
SWF1608CV-1R5☐	1.5	K,M	0.5V/7.96M	10	7.96	100	0.96	350
SWF1608CV-1R8☐	1.8	K,M	0.5V/7.96M	10	7.96	80	1.10	350
SWF1608CV-2R2☐	2.2	K,M	0.5V/7.96M	10	7.96	68	1.20	320
SWF1608CV-3R3☐	3.3	K,M	0.5V/7.96M	10	7.96	42	1.50	280
SWF1608CV-3R9☐	3.9	K,M	0.5V/7.96M	10	7.96	40	1.50	280
SWF1608CV-4R7☐	4.7	K,M	0.5V/7.96M	10	7.96	34	2.10	260
SWF1608CV-5R6☐	5.6	K,M	0.5V/7.96M	10	7.96	32	2.60	240
SWF1608CV-6R8☐	6.8	K,M	0.5V/7.96M	10	7.96	31	3.10	200
SWF1608CV-8R2☐	8.2	K,M	0.5V/7.96M	10	7.96	26	4.40	190
SWF1608CV-100☐	10.0	K,M	0.5V/2.52M	10	2.52	25	4.80	180

Winding Type Chip Inductor

SWF1608LV-47NJ

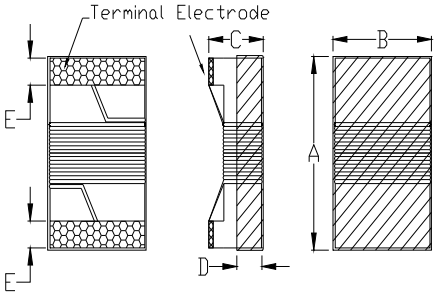
1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability tests comply with AEC-Q200
7. Operating Temperature-40~+125℃(Including self - temperature rise)

Halogen-free

RoHS

2. Dimensions



Size	A	B	C	D	E
SWF1608	1.80±0.15	1.20±0.15	1.15±0.15	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering

SWF	1608	L	V	-	R10	J
A	B	C	D		E	F

A: Series
B: Dimension L x W
C: Application
D: Category Code V=Vehicle
E: Inductance R10=100nH
F: Inductance Tolerance J=±5%

4. Specification

TAI-TECH Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	Rated Current (mA) max.
SWF1608LV-R10□	100	J,K	0.5V/7.9M	17	7.9	1650	0.13	1500
SWF1608LV-R18□	180	J,K	0.5V/7.9M	17	7.9	1150	0.15	1400
SWF1608LV-R22□	220	J,K	0.5V/7.9M	17	7.9	1050	0.16	1350
SWF1608LV-R33□	330	J,K	0.5V/7.9M	17	7.9	850	0.46	1200
SWF1608LV-R39□	390	J,K	0.5V/7.9M	17	7.9	810	0.51	1200
SWF1608LV-R47□	470	J,K	0.5V/7.9M	17	7.9	720	0.62	1200
SWF1608LV-R56□	560	J,K	0.5V/7.9M	17	7.9	600	0.44	850
SWF1608LV-R82□	820	J,K	0.5V/7.9M	17	7.9	480	0.69	750
SWF1608LV-R91□	910	J,K	0.5V/7.9M	17	7.9	330	0.76	670
SWF1608LV-1R5□	1500	J,K	0.5V/7.9M	17	7.9	600	0.78	540
SWF1608LV-R91□	910	J,K	0.5V/7.9M	17	7.9	330	0.76	670
SWF1608LV-1R5□	1500	J,K	0.5V/7.9M	17	7.9	270	0.78	540
SWF1608LV-1R8□	1800	J,K	0.5V/7.9M	17	7.9	230	1.10	540
SWF1608LV-2R2□	2200	J,K	0.5V/7.9M	17	7.9	140	1.20	510

TAI-TECH

TAI-TECH Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	Rated Current (mA) max.
SWF1608LV-2R7□	2700	J,K	0.5V/7.9M	17	7.9	105	1.5	480
SWF1608LV-3R3□	3300	J,K	0.5V/7.9M	17	7.9	84	1.5	440
SWF1608LV-3R9□	3900	J,K	0.5V/7.9M	17	7.9	80	1.6	440
SWF1608LV-4R7□	4700	J,K	0.5V/7.9M	18	7.9	69	2.1	420
SWF1608LV-5R6□	5600	J,K	0.5V/7.9M	18	7.9	65	2.6	400
SWF1608LV-6R8□	6800	J,K	0.5V/7.9M	19	7.9	55	3.1	400
SWF1608LV-100□	10000	J,K	0.5V/7.9M	19	7.9	40	4.8	300

Winding Type Chip Inductor

SWF2012CV-SERIES

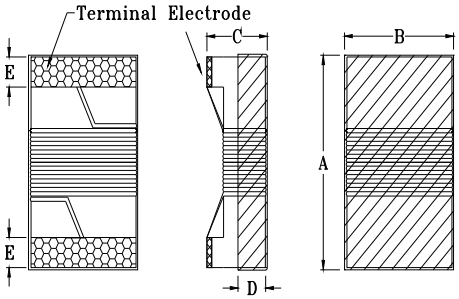
1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability test meet AEC-Q200
7. Operating temperature -55~+125℃(Including self - temperature rise)

Halogen-free

RoHS

2. Dimensions



Size	A	B	C	D	E
SWF2012	2.40 max.	1.60 max.	1.40 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering

SWF	2012	C	V	-	R47	M
A	B	C	D		E	F

A: Series
B: Dimension L x W
C: Lead free type
D: Category Code V=Vehicle
E: Inductance R47=0.47 uH
F: Inductance Tolerance K=±10%,M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWF2012CV-R47□	0.47	K,M	0.5V/7.96M	10	7.96	750	0.20	720
SWF2012CV-R56□	0.56	K,M	0.5V/7.96M	10	7.96	730	0.21	665
SWF2012CV-R68□	0.68	K,M	0.5V/7.96M	10	7.96	670	0.28	565
SWF2012CV-R82□	0.82	K,M	0.5V/7.96M	10	7.96	650	0.31	545
SWF2012CV-1R0□	1.00	K,M	0.5V/7.96M	10	7.96	615	0.34	525
SWF2012CV-1R2□	1.20	K,M	0.5V/7.96M	10	7.96	550	0.39	473
SWF2012CV-1R5□	1.50	K,M	0.5V/7.96M	10	7.96	520	0.45	300
SWF2012CV-1R8□	1.80	K,M	0.5V/7.96M	10	7.96	500	0.48	230
SWF2012CV-2R2□	2.20	K,M	0.5V/7.96M	10	7.96	420	0.67	215

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWF2012CV-2R7☐	2.70	K,M	0.5V/7.96M	10	7.96	410	0.74	140
SWF2012CV-3R3☐	3.30	K,M	0.5V/7.96M	10	7.96	385	0.81	95
SWF2012CV-3R9☐	3.90	K,M	0.5V/7.96M	10	7.96	372	0.88	57
SWF2012CV-4R7☐	4.70	K,M	0.5V/7.96M	10	7.96	345	0.99	51
SWF2012CV-5R6☐	5.60	K,M	0.5V/7.96M	10	7.96	335	1.06	44
SWF2012CV-6R8☐	6.80	K,M	0.5V/7.96M	10	7.96	315	1.21	39
SWF2012CV-8R2☐	8.20	K,M	0.5V/7.96M	10	7.96	295	1.33	33
SWF2012CV-100☐	10.0	K,M	0.5V/2.52M	10	2.52	260	1.79	30
SWF2012CV-120☐	12.0	K,M	0.5V/2.52M	10	2.52	250	1.98	27
SWF2012CV-150☐	15.0	K,M	0.5V/2.52M	10	2.52	215	2.68	22
SWF2012CV-180☐	18.0	K,M	0.5V/2.52M	10	2.52	195	3.12	20
SWF2012CV-220☐	22.0	K,M	0.5V/2.52M	10	2.52	180	3.48	18
SWF2012CV-270☐	27.0	K,M	0.5V/2.52M	10	2.52	170	3.84	16
SWF2012CV-330☐	33.0	K,M	0.5V/2.52M	10	2.52	145	4.34	15

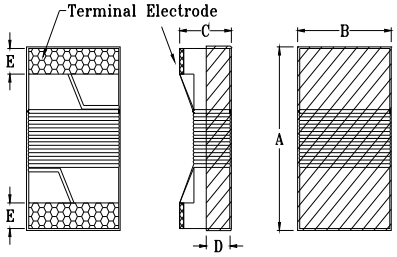
Winding Type Chip Inductor

SWF2520CV-SERIES

1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability test meet AEC-Q200
7. Operating temperature -55~+125℃(Including self - temperature rise)

2. Dimensions



Size	A	B	C	D	E
SWF2520	2.90 max.	2.50 max.	2.10 max.	1.20 ref.	0.55±0.1

Unit:mm

3. Part Numbering

SWF	2520	C	V	-	1R0	M
A	B	C	D		E	F

A: Series
B: Dimension L x W
C: Application DC Power Line
D: Category Code V=Vehicle
E: Inductance 1R0=1.00 uH
F: Inductance Tolerance K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWF2520CV-1R0□	1.00	K,M	0.5V/7.96M	12	7.96	1000	0.13	345
SWF2520CV-1R5□	1.50	K,M	0.5V/7.96M	12	7.96	850	0.17	100
SWF2520CV-2R2□	2.20	K,M	0.5V/7.96M	12	7.96	775	0.21	78
SWF2520CV-3R3□	3.30	K,M	0.5V/7.96M	12	7.96	715	0.26	48
SWF2520CV-4R7□	4.70	K,M	0.5V/7.96M	12	7.96	505	0.52	46
SWF2520CV-6R8□	6.80	K,M	0.5V/7.96M	12	7.96	432	0.72	33
SWF2520CV-8R2□	8.20	K,M	0.5V/2.52M	12	2.52	410	0.76	30
SWF2520CV-100□	10.0	K,M	0.5V/2.52M	12	2.52	392	0.86	28
SWF2520CV-150□	15.0	K,M	0.5V/2.52M	12	2.52	342	1.09	21
SWF2520CV-220□	22.0	K,M	0.5V/2.52M	12	2.52	260	1.96	18
SWF2520CV-330□	33.0	K,M	0.5V/2.52M	12	2.52	236	2.47	15

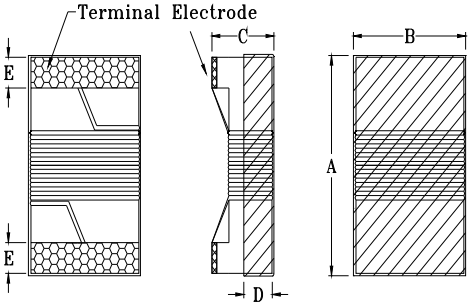
Winding Type Chip Inductor

SWF3225CV-SERIES

1. Features

1. Ferrite core wire wound construction.
2. High Reliability due to wire wound type construction.
3. Small footprint as well as low profile.
4. Application for DC power line.
5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
6. High reliability -Reliability test meet AEC-Q200
7. Operating temperature -55~+125℃(Including self - temperature rise)

2. Dimension



Size	A	B	C	D	E
SWF3225	3.60 max.	2.80 max.	2.60 max.	0.80 ref.	0.55±0.1

Unit:mm

3. Part Numbering

SWF	3225	C	V	-	1R0	M
A	B	C	D		E	F

A: Series	
B: Dimension	L x W
C: Application	DC Power Line
D: Category Code	V=Vehicle
E: Inductance	1R0=1.0uH
F: Inductance Tolerance	M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWF3225CV-1R0□	1.00	K,M	0.5V/7.96M	10	7.96	1200	0.12	290
SWF3225CV-1R5□	1.50	K,M	0.5V/7.96M	10	7.96	1000	0.13	260
SWF3225CV-2R2□	2.20	K,M	0.5V/7.96M	10	7.96	880	0.17	190
SWF3225CV-3R3□	3.30	K,M	0.5V/7.96M	10	7.96	775	0.22	64
SWF3225CV-4R7□	4.70	K,M	0.5V/7.96M	10	7.96	710	0.26	54
SWF3225CV-6R8□	6.80	K,M	0.5V/7.96M	10	7.96	660	0.30	34
SWF3225CV-100□	10.0	K,M	0.5V/2.52M	10	2.52	570	0.39	25
SWF3225CV-150□	15.0	K,M	0.5V/2.52M	10	2.52	440	0.66	17
SWF3225CV-220□	22.0	K,M	0.5V/2.52M	10	2.52	400	0.82	16

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWF3225CV-330□	33.0	K,M	0.5V/2.52M	10	2.52	285	1.50	12
SWF3225CV-390□	39.0	K,M	0.5V/2.52M	10	2.52	270	1.66	12
SWF3225CV-470□	47.0	K,M	0.5V/2.52M	10	2.52	260	1.90	10
SWF3225CV-680□	68.0	K,M	0.5V/2.52M	10	2.52	235	2.29	9.0
SWF3225CV-101□	100	K,M	0.5V/1M	10	1.00	190	3.48	7.0
SWF3225CV-151□	150	K,M	0.5V/1M	10	1.00	140	6.55	5.0
SWF3225CV-221□	220	K,M	0.5V/1M	10	1.00	115	8.23	4.0
SWF3225CV-331□	330	K,M	0.5V/1M	10	1.00	98	13.7	2.8
SWF3225CV-471□	470	K,M	0.5V/1M	10	1.00	86	18.1	2.6
SWF3225CV-681□	680	K,M	0.5V/1M	10	1.00	76	22.0	2.3