

Winding Type Chip Inductor

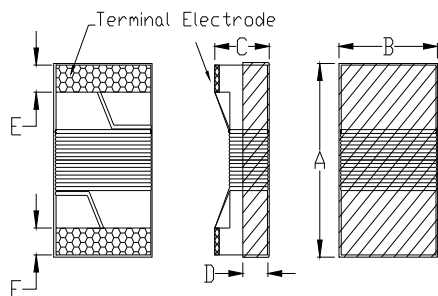
SWF1608LF-SERIES

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 Signal Use.
5. 100% Lead (Pb) & Halogen-Free and RoHS compliant.
6. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimensions



Size	A	B	C	D	E
SWF1608	1.65±0.15	1.15±0.15	1.05±0.15	0.38 ref.	0.35±0.10

Unit:mm

3. Part Numbering

SWF	1608	L	F	-	R10	K
A	B	C	D		E	F

A: Series

B: Dimension

C: Application

D: Lead free type

E: Inductance

F: Inductance Tolerance

L x W

For Signal Use

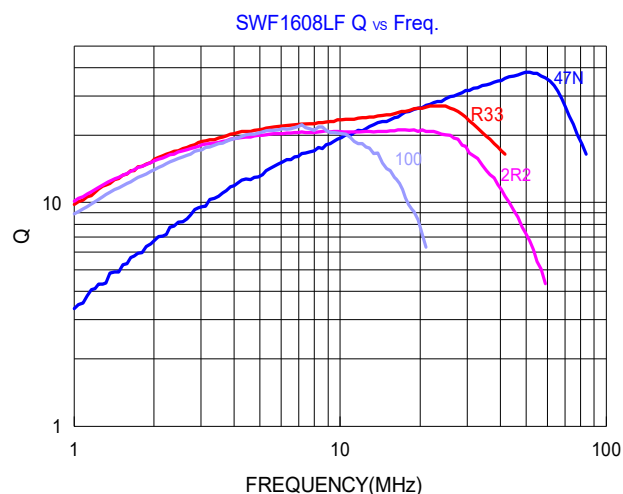
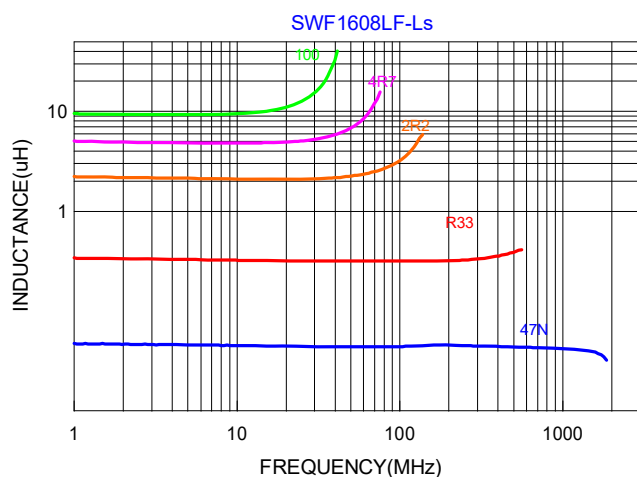
R10=0.1uH

J=±5%,K=±10%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	IDC (mA) max.
SWF1608LF-47N□	0.047	K	0.5V/7.9M	17	7.9	1700	0.075	1500
SWF1608LF-72N□	0.072	K	0.5V/7.9M	17	7.9	1700	0.12	1500
SWF1608LF-R10□	0.10	K	0.5V/7.9M	17	7.9	1500	0.12	1500
SWF1608LF-R12□	0.12	K	0.5V/7.9M	17	7.9	1350	0.15	1500
SWF1608LF-R15□	0.15	K	0.5V/7.9M	17	7.9	1350	0.15	1450
SWF1608LF-R18□	0.18	K	0.5V/7.9M	17	7.9	1150	0.15	1400
SWF1608LF-R33□	0.33	K	0.5V/7.9M	17	7.9	850	0.46	900
SWF1608LF-R39□	0.39	K	0.5V/7.9M	17	7.9	810	0.51	1100
SWF1608LF-R47□	0.47	K	0.5V/7.9M	17	7.9	720	0.62	1050
SWF1608LF-R56□	0.56	K	0.5V/7.9M	17	7.9	600	0.44	850
SWF1608LF-R68□	0.68	K	0.5V/7.9M	17	7.9	600	0.52	850
SWF1608LF-R82□	0.82	K	0.5V/7.9M	17	7.9	480	0.69	750
SWF1608LF-R91□	0.91	K	0.5V/7.9M	17	7.9	330	0.76	670
SWF1608LF-1R0□	1.00	K	0.5V/7.9M	17	7.9	310	0.81	600

TAI-TECH Part Number	Inductance (μ H)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) typ.	DCR (Ω) max.	IDC (mA) max.
SWF1608LF-1R2□	1.2	K	0.5V/7.9M	17	7.9	270	0.87	550
SWF1608LF-1R5□	1.5	K	0.5V/7.9M	17	7.9	270	1.06	540
SWF1608LF-1R8□	1.8	K	0.5V/7.9M	17	7.9	230	1.10	520
SWF1608LF-2R2□	2.2	K	0.5V/7.9M	17	7.9	130	1.20	500
SWF1608LF-2R7□	2.7	K	0.5V/7.9M	17	7.9	105	1.50	480
SWF1608LF-3R3□	3.3	K	0.5V/7.9M	17	7.9	84	1.50	440
SWF1608LF-3R9□	3.9	K	0.5V/7.9M	17	7.9	80	1.60	430
SWF1608LF-4R7□	4.7	J,K	0.5V/7.9M	18	7.9	69	2.10	420
SWF1608LF-5R6□	5.6	J,K	0.5V/7.9M	18	7.9	65	2.60	350
SWF1608LF-6R8□	6.8	J,K	0.5V/7.9M	19	7.9	55	3.10	330
SWF1608LF-7R8□	7.8	J,K	0.5V/7.9M	17	7.9	47	3.50	320
SWF1608LF-8R2□	8.2	J,K	0.5V/7.9M	17	7.9	42	3.80	300
SWF1608LF-100□	10	J,K	0.5V/7.9M	19	7.9	40	4.80	270



6. Recommended PC Board Pattern

Chip size							Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
SWF	1608	1.65 $\pm$ 0.15	1.15 $\pm$ 0.15	1.05 $\pm$ 0.15	0.38 ref	0.35 $\pm$ 0.10	1.86	0.80	1.07

