

Winding Type Chip Inductor

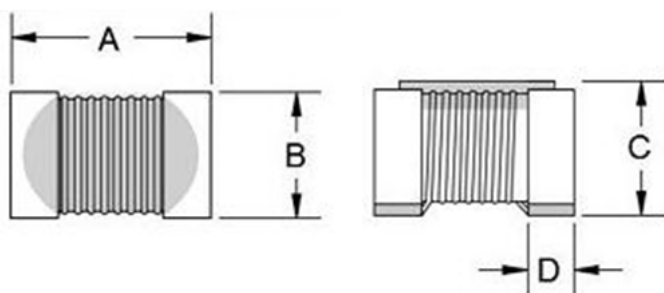
SWF1608PLF-SERIES

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
SWF1608	1.65±0.15	1.05±0.15	1.05±0.15	0.35±0.10

Unit:mm

3. Part Numbering

SWF 1608 P L F - R10 K

A

B

C

D

E

F

G

A: Series

B: Dimension

C: Control S/N

D: Application

E: Lead free type

F: Inductance

G: Inductance Tolerance

L x W

For Signal Use

R10=0.10uH

J=±5%,K=±10%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) max.	IDC (mA) max.
SWF1608PLF-47N□	0.047	K	0.5V/7.9M	12	7.9	1500	0.075	1500
SWF1608PLF-72N□	0.072	K	0.5V/7.9M	12	7.9	1500	0.12	1500
SWF1608PLF-R10□	0.10	K	0.5V/7.9M	12	7.9	1350	0.12	1500
SWF1608PLF-R12□	0.12	K	0.5V/7.9M	12	7.9	1250	0.15	1400
SWF1608PLF-R15□	0.15	K	0.5V/7.9M	15	7.9	1250	0.15	1350
SWF1608PLF-R33□	0.33	K	0.5V/7.9M	15	7.9	750	0.46	900
SWF1608PLF-R39□	0.39	K	0.5V/7.9M	15	7.9	730	0.51	900
SWF1608PLF-R47□	0.47	K	0.5V/7.9M	15	7.9	650	0.62	900
SWF1608PLF-R56□	0.56	K	0.5V/7.9M	15	7.9	550	0.44	750

TAI-TECH Part Number	Inductance (μ H)	Tolerance	Test Frequency (Hz)	Q Typ	Test Frequency (MHz)	SRF (MHz) Min.	DCR (Ω) max.	IDC (mA) max.
SWF1608PLF-R68□	0.68	K	0.5V/7.9M	15	7.9	540	0.52	700
SWF1608PLF-R82□	0.82	K	0.5V/7.9M	15	7.9	435	0.69	650
SWF1608PLF-R91□	0.91	K	0.5V/7.9M	15	7.9	300	0.76	600
SWF1608PLF-1R0□	1.00	K	0.5V/7.9M	15	7.9	170	0.81	550
SWF1608PLF-1R2□	1.20	K	0.5V/7.9M	15	7.9	155	0.87	500
SWF1608PLF-1R5□	1.50	K	0.5V/7.9M	15	7.9	140	1.06	450
SWF1608PLF-1R8□	1.80	K	0.5V/7.9M	15	7.9	125	1.1	400
SWF1608PLF-2R2□	2.20	K	0.5V/7.9M	15	7.9	115	1.2	350
SWF1608PLF-2R7□	2.70	K	0.5V/7.9M	15	7.9	105	1.5	350
SWF1608PLF-3R3□	3.30	K	0.5V/7.9M	15	7.9	95	1.5	300
SWF1608PLF-3R9□	3.90	K	0.5V/7.9M	15	7.9	70	1.6	300
SWF1608PLF-4R7□	4.70	J,K	0.5V/7.9M	15	7.9	65	2.1	280
SWF1608PLF-5R6□	5.60	J,K	0.5V/7.9M	15	7.9	60	2.6	280
SWF1608PLF-6R8□	6.80	J,K	0.5V/7.9M	15	7.9	50	3.1	250
SWF1608PLF-7R8□	7.80	J,K	0.5V/7.9M	15	7.9	42	3.5	250
SWF1608PLF-8R2□	8.20	J,K	0.5V/7.9M	15	7.9	38	3.8	225
SWF1608PLF-100□	10.00	J,K	0.5V/7.9M	12	7.9	36	4.8	200

5. 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±0.15	1.15±0.15	1.05±0.15	0.38 ref	0.35±0.10	1.86	0.80	1.07

