

Winding Type Chip Inductor

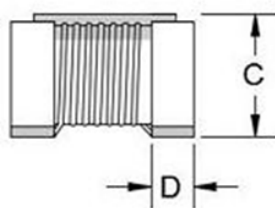
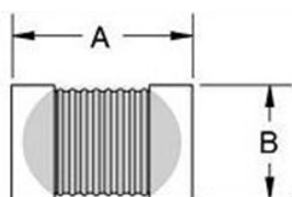
SWF2012PLF-SERIES

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
SWF2012	2.20±0.30	1.40±0.20	1.25±0.10	0.50±0.1

Unit:mm

3. Part Numbering

SWF	2012	P	L	F	-	R47	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

R47=0.47 uH

J=±5% , K=±10%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q typ.	IDC (mA) max.	DCR (Ω) max.	SRF (MHz) typ.
SWF2012PLF-78N□	0.078	K	0.5V/7.9M	19	2000	0.06	1440
SWF2012PLF-90N□	0.090	K	0.5V/7.9M	19	2000	0.07	1200
SWF2012PLF-R11□	0.11	K	0.5V/7.9M	19	2000	0.07	1200
SWF2012PLF-R47□	0.47	K	0.5V/7.9M	19	800	0.40	480
SWF2012PLF-R56□	0.56	K	0.5V/7.9M	30	800	0.40	480
SWF2012PLF-R68□	0.68	K	0.5V/7.9M	20	800	0.40	480
SWF2012PLF-R91□	0.91	K	0.5V/7.9M	20	700	0.69	400
SWF2012PLF-1R0□	1.0	K	0.5V/7.9M	20	700	0.69	400
SWF2012PLF-1R2□	1.20	K	0.5V/7.9M	20	700	0.83	330

TAI-TECH Part Number	Inductance (μ H)	Tolerance	Test Frequency (Hz)	Q typ.	IDC (mA) max.	DCR (Ω) max.	SRF (MHz) typ.
SWF2012PLF-1R5□	1.50	K	0.5V/7.9M	20	700	0.83	330
SWF2012PLF-1R8□	1.80	K	0.5V/7.9M	20	650	1.00	300
SWF2012PLF-2R2□	2.20	K	0.5V/7.9M	20	650	1.10	250
SWF2012PLF-2R7□	2.70	K	0.5V/7.9M	23	650	1.25	200
SWF2012PLF-3R3□	3.30	K	0.5V/7.9M	23	650	1.45	160
SWF2012PLF-3R9□	3.90	K	0.5V/7.9M	23	600	1.50	90
SWF2012PLF-4R7□	4.70	J,K	0.5V/7.9M	20	530	1.60	70
SWF2012PLF-5R6□	5.60	J,K	0.5V/7.9M	20	500	1.70	65
SWF2012PLF-6R8□	6.80	J,K	0.5V/7.9M	20	470	1.95	45
SWF2012PLF-8R2□	8.20	J,K	0.5V/2.5M	16	450	2.10	45
SWF2012PLF-100□	10.0	J,K	0.5V/2.5M	16	400	2.40	40
SWF2012PLF-120□	12.0	J,K	0.5V/2.5M	16	360	3.20	38
SWF2012PLF-150□	15.0	J,K	0.5V/2.5M	16	350	3.55	30
SWF2012PLF-180□	18.0	J,K	0.5V/2.5M	16	300	4.90	25
SWF2012PLF-220□	22.0	J,K	0.5V/2.5M	16	270	5.45	20
SWF2012PLF-270□	27.0	J,K	0.5V/2.5M	16	240	7.80	19
SWF2012PLF-330□	33.0	J,K	0.5V/2.5M	16	210	9.50	16
SWF2012PLF-470□	47.0	J,K	0.5V/2.5M	16	180	14.50	15

5. Recommended PC Board Pattern

Chip size						Land Patterns For Reflow Soldering		
Series	Type	A(mm)	B(mm)	C(mm)	D(mm)	L(mm)	G(mm)	H(mm)
SWF	2012	2.20±0.30	1.40±0.20	1.25±0.10	0.50±0.1	2.8	1.2	1.78

