

Winding Type Chip Inductor

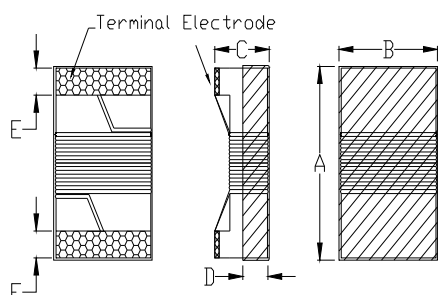
SWF1608CF-SERIES

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. Operating temperature -40~+125°C (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±0.10

Unit:mm

3. Part Numbering

SWF	1608	C	F	-	47N	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

DC Power Line

47N=0.047 uH

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.
SWF1608CF-47N□	0.047	K,M	0.5V/7.96M	10	7.96	1500	0.075	1400
SWF1608CF-R10□	0.10	K,M	0.5V/7.96M	10	7.96	1150	0.13	1400
SWF1608CF-R12□	0.12	K,M	0.5V/7.96M	10	7.96	1100	0.15	1400
SWF1608CF-R15□	0.15	K,M	0.5V/7.96M	10	7.96	1050	0.15	1300
SWF1608CF-R18□	0.18	K,M	0.5V/7.96M	10	7.96	950	0.15	1300
SWF1608CF-R22□	0.22	K,M	0.5V/7.96M	10	7.96	800	0.15	950
SWF1608CF-R24□	0.24	K,M	0.5V/7.96M	10	7.96	800	0.31	620
SWF1608CF-R27□	0.27	K,M	0.5V/7.96M	10	7.96	775	0.20	710
SWF1608CF-R33□	0.33	K,M	0.5V/7.96M	10	7.96	725	0.35	620
SWF1608CF-R39□	0.39	K,M	0.5V/7.96M	10	7.96	620	0.39	600
SWF1608CF-R47□	0.47	K,M	0.5V/7.96M	10	7.96	540	0.43	570
SWF1608CF-R56□	0.56	K,M	0.5V/7.96M	10	7.96	525	0.47	550
SWF1608CF-R68□	0.68	K,M	0.5V/7.96M	10	7.96	460	0.52	470
SWF1608CF-R82□	0.82	K,M	0.5V/7.96M	10	7.96	410	0.69	400
SWF1608CF-1R0□	1.0	K,M	0.5V/7.96M	10	7.96	190	0.81	400
SWF1608CF-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.
SWF1608CF-1R5□	1.5	K,M	0.5V/7.96M	10	7.96	100	0.96	350
SWF1608CF-1R8□	1.8	K,M	0.5V/7.96M	10	7.96	80	1.10	350
SWF1608CF-2R2□	2.2	K,M	0.5V/7.96M	10	7.96	68	1.20	320
SWF1608CF-3R3□	3.3	K,M	0.5V/7.96M	10	7.96	42	1.50	280
SWF1608CF-3R9□	3.9	K,M	0.5V/7.96M	10	7.96	40	1.50	280
SWF1608CF-4R7□	4.7	K,M	0.5V/7.96M	10	7.96	34	2.10	260
SWF1608CF-5R6□	5.6	K,M	0.5V/7.96M	10	7.96	32	2.60	240
SWF1608CF-6R8□	6.8	K,M	0.5V/7.96M	10	7.96	31	3.10	200
SWF1608CF-8R2□	8.2	K,M	0.5V/7.96M	10	7.96	26	4.40	190
SWF1608CF-100□	10.0	K,M	0.5V/2.52M	10	2.52	25	4.80	180

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	1.80max	1.20max	1.20max	0.38 ref	0.35±0.1	1.92	0.92	1.02

