

Winding Type Chip Inductor

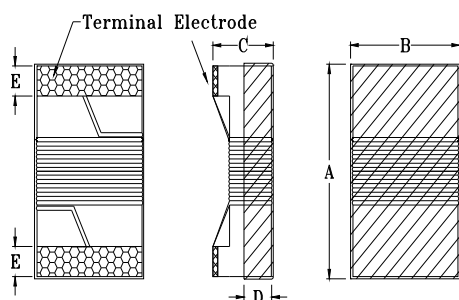
SWF21FC-SERIES

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
SWF21FC	2.40 max.	1.60 max.	1.40 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering

SWF	21	FC	-	R47	K	A
A	B	C		D	E	F

A: Series

B: Dimension

L x W

C: Lead free type

D: Inductance

R47=0.47 uH

E: Inductance Tolerance

K=±10%,M=±20%

F: Control S/N

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.
SWF21FC-R47□A	0.47	K,M	0.5V/7.96M	10	7.96	750	0.20	720
SWF21FC-R56□A	0.56	K,M	0.5V/7.96M	10	7.96	730	0.21	665
SWF21FC-R68□A	0.68	K,M	0.5V/7.96M	10	7.96	670	0.28	565
SWF21FC-R82□A	0.82	K,M	0.5V/7.96M	10	7.96	650	0.31	545
SWF21FC-1R0□A	1.00	K,M	0.5V/7.96M	10	7.96	615	0.34	525
SWF21FC-1R2□A	1.20	K,M	0.5V/7.96M	10	7.96	550	0.39	473
SWF21FC-1R5□A	1.50	K,M	0.5V/7.96M	10	7.96	520	0.45	300
SWF21FC--1R8□A	1.80	K,M	0.5V/7.96M	10	7.96	500	0.48	230
SWF21FC-2R2□A	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.
SWF21FC-2R7□A	2.70	K,M	0.5V/7.96M	10	7.96	410	0.74	140
SWF21FC-3R3□A	3.30	K,M	0.5V/7.96M	10	7.96	385	0.81	95
SWF21FC-3R9□A	3.90	K,M	0.5V/7.96M	10	7.96	372	0.88	57
SWF21FC-4R7□A	4.70	K,M	0.5V/7.96M	10	7.96	345	0.99	51
SWF21FC-5R6□A	5.60	K,M	0.5V/7.96M	10	7.96	335	1.06	44
SWF21FC-6R8□A	6.80	K,M	0.5V/7.96M	10	7.96	315	1.21	39
SWF21FC-8R2□A	8.20	K,M	0.5V/7.96M	10	7.96	295	1.33	33
SWF21FC-100□A	10.0	K,M	0.5V/2.52M	10	2.52	260	1.79	30
SWF21FC-120□A	12.0	K,M	0.5V/2.52M	10	2.52	250	1.98	27
SWF21FC-150□A	15.0	K,M	0.5V/2.52M	10	2.52	215	2.68	22
SWF21FC-180□A	18.0	K,M	0.5V/2.52M	10	2.52	195	3.12	20
SWF21FC-220□A	22.0	K,M	0.5V/2.52M	10	2.52	180	3.48	18
SWF21FC-270□A	27.0	K,M	0.5V/2.52M	10	2.52	170	3.84	16
SWF21FC-330□A	33.0	K,M	0.5V/2.52M	10	2.52	145	4.34	15

5. Recommended PC Board Patte

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	21FC	2.40max	1.60max	1.40max	0.51 ref.	0.44±0.1	2.80	1.20	1.78

