Winding Type Chip Inductor

SWC18FC-SERIES

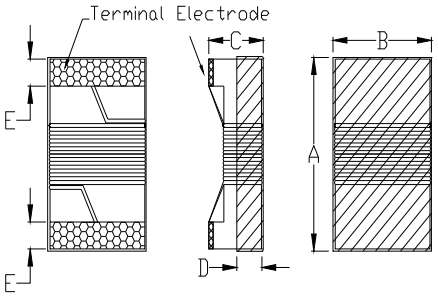
1. Features

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℃ (Including self - temperature rise)

Halogen-free

RoHS

2. Dimensions



Size	A	B	C	D	E
SWC18FC	1.80 max.	1.20 max.	1.20 max.	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering

SWC	18	FC	-	47N	K	A
A	B	C		D	E	F

A: Series
B: Dimension L x W
C: Lead free type
D: Inductance 47N=0.047 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)	SRF (MHz) min.	DCR (Ω) max.	Rated Current (mA) max.
SWC18FC-47N□A	0.047	K,M	0.5V/7.96M	10	7.96	1500	0.075	1400
SWC18FC-R10□A	0.10	K,M	0.5V/7.96M	10	7.96	1150	0.13	1400
SWC18FC-R12□A	0.12	K,M	0.5V/7.96M	10	7.96	1100	0.15	1400
SWC18FC-R15□A	0.15	K,M	0.5V/7.96M	10	7.96	1050	0.15	1300
SWC18FC-R18□A	0.18	K,M	0.5V/7.96M	10	7.96	950	0.15	1300
SWC18FC-R22□A	0.22	K,M	0.5V/7.96M	10	7.96	800	0.15	950
SWC18FC-R24□A	0.24	K,M	0.5V/7.96M	10	7.96	800	0.31	620
SWC18FC-R27□A	0.27	K,M	0.5V/7.96M	10	7.96	775	0.20	710
SWC18FC-R33□A	0.33	K,M	0.5V/7.96M	10	7.96	725	0.35	620
SWC18FC-R39□A	0.39	K,M	0.5V/7.96M	10	7.96	620	0.39	600
SWC18FC-R47□A	0.47	K,M	0.5V/7.96M	10	7.96	540	0.43	570
SWC18FC-R56□A	0.56	K,M	0.5V/7.96M	10	7.96	525	0.47	550
SWC18FC-R68□A	0.68	K,M	0.5V/7.96M	10	7.96	460	0.52	470
SWC18FC-R82□A	0.82	K,M	0.5V/7.96M	10	7.96	410	0.69	400
SWC18FC-1R0□A	1.0	K,M	0.5V/7.96M	10	7.96	190	0.81	400
SWC18FC-1R2□A	1.2	K,M	0.5V/7.96M	10	7.96	160	0.87	370

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SWC18FC-1R5□A	1.5	K,M	0.5V/7.96M	10	7.96	100	0.96	350
SWC18FC-1R8□A	1.8	K,M	0.5V/7.96M	10	7.96	80	1.10	350
SWC18FC-2R2□A	2.2	K,M	0.5V/7.96M	10	7.96	68	1.20	320
SWC18FC-3R3□A	3.3	K,M	0.5V/7.96M	10	7.96	42	1.50	280
SWC18FC-3R9□A	3.9	K,M	0.5V/7.96M	10	7.96	40	1.50	280
SWC18FC-4R7□A	4.7	K,M	0.5V/7.96M	10	7.96	34	2.10	260
SWC18FC-5R6□A	5.6	K,M	0.5V/7.96M	10	7.96	32	2.60	240
SWC18FC-6R8□A	6.8	K,M	0.5V/7.96M	10	7.96	31	3.10	200
SWC18FC-8R2□A	8.2	K,M	0.5V/7.96M	10	7.96	26	4.40	190
SWC18FC-100□A	10.0	K,M	0.5V/2.52M	10	2.52	25	4.80	180