

Winding Type Chip Inductor

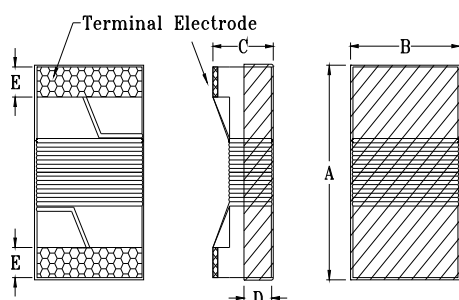
SWF2012CV-SERIES

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. High reliability -Reliability tests comply with AEC-Q200
7. Operating temperature -55~+125°C (Including self - temperature rise)



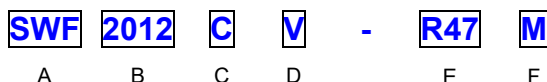
2. Dimensions



Size	A	B	C	D	E
SWF2012	2.40 max.	1.60 max.	1.40 max.	0.51 ref.	0.44±0.1

Unit:mm

3. Part Numbering



A: Series
 B: Dimension L x W
 C: Application DC Power Line
 D: Category Code V=Vehicle
 E: Inductance R47=0.47 uH
 F: Inductance Tolerance K=±10%,M=±20%

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.
SWF2012CV-R47□	0.47	K,M	0.5V/7.96M	10	7.96	750	0.20	720
SWF2012CV-R56□	0.56	K,M	0.5V/7.96M	10	7.96	730	0.21	665
SWF2012CV-R68□	0.68	K,M	0.5V/7.96M	10	7.96	670	0.28	565
SWF2012CV-R82□	0.82	K,M	0.5V/7.96M	10	7.96	650	0.31	545
SWF2012CV-1R0□	1.00	K,M	0.5V/7.96M	10	7.96	615	0.34	525
SWF2012CV-1R2□	1.20	K,M	0.5V/7.96M	10	7.96	550	0.39	473
SWF2012CV-1R5□	1.50	K,M	0.5V/7.96M	10	7.96	520	0.45	300
SWF2012CV-1R8□	1.80	K,M	0.5V/7.96M	10	7.96	500	0.48	230
SWF2012CV-2R2□	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.
SWF2012CV-2R7□	2.70	K,M	0.5V/7.96M	10	7.96	410	0.74	140
SWF2012CV-3R3□	3.30	K,M	0.5V/7.96M	10	7.96	385	0.81	95
SWF2012CV-3R9□	3.90	K,M	0.5V/7.96M	10	7.96	372	0.88	57
SWF2012CV-4R7□	4.70	K,M	0.5V/7.96M	10	7.96	345	0.99	51
SWF2012CV-5R6□	5.60	K,M	0.5V/7.96M	10	7.96	335	1.06	44
SWF2012CV-6R8□	6.80	K,M	0.5V/7.96M	10	7.96	315	1.21	39
SWF2012CV-8R2□	8.20	K,M	0.5V/7.96M	10	7.96	295	1.33	33
SWF2012CV-100□	10.0	K,M	0.5V/2.52M	10	2.52	260	1.79	30
SWF2012CV-120□	12.0	K,M	0.5V/2.52M	10	2.52	250	1.98	27
SWF2012CV-150□	15.0	K,M	0.5V/2.52M	10	2.52	215	2.68	22
SWF2012CV-180□	18.0	K,M	0.5V/2.52M	10	2.52	195	3.12	20
SWF2012CV-220□	22.0	K,M	0.5V/2.52M	10	2.52	180	3.48	18
SWF2012CV-270□	27.0	K,M	0.5V/2.52M	10	2.52	170	3.84	16
SWF2012CV-330□	33.0	K,M	0.5V/2.52M	10	2.52	145	4.34	15