

Ferrite Chip Inductor(Lead Free)

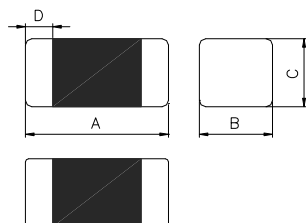
FCI2012V-Series

Features

1. Monolithic inorganic material construction.
2. Closed magnetic circuit avoids crosstalk.
3. S.M.T. type.
4. Suitable for reflow soldering.
5. Shapes and dimensions follow E.I.A. spec.
6. Available in various sizes.
7. Excellent solder ability and heat resistance.
8. High reliability. Reliability test meet AEC-Q200.
9. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
10. Operating Temperature: -55~+125℃ (Including self-temperature rise)



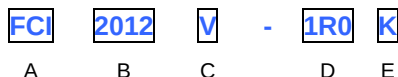
Dimensions



Chip Size		
A	2.00±0.20	
B	1.25±0.20	
C	0.85±0.20	1.25±0.20
D	0.50±0.30	

Units: mm

Part Numbering



A: Series
 B: Dimension
 C: Category Code
 D: Inductance
 E: Inductance Tolerance

L x W
 V=Vehicle
 1R0=1.0uH
 K=±10%, L=±15%, M=±20%

Specification

Tai-Tech Part Number	Thickness C size (mm)	Inductance (uH)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DC Resistance (Ohm) max.	SRF (MHz) min.
FCI2012V-47N□	0.85±0.2	0.047	15	50	300	0.20	320
FCI2012V-R10□	0.85±0.2	0.10	20	25	250	0.30	235
FCI2012V-R12□	0.85±0.2	0.12	20	25	250	0.30	220
FCI2012V-R15□	0.85±0.2	0.15	20	25	250	0.40	200
FCI2012V-R18□	0.85±0.2	0.18	20	25	250	0.40	185
FCI2012V-R22□	0.85±0.2	0.22	20	25	250	0.50	170
FCI2012V-R27□	0.85±0.2	0.27	20	25	250	0.50	150
FCI2012V-R33□	0.85±0.2	0.33	20	25	250	0.55	145
FCI2012V-R39□	0.85±0.2	0.39	25	25	200	0.65	135
FCI2012V-R47□	1.25±0.2	0.47	25	25	200	0.65	125
FCI2012V-R56□	1.25±0.2	0.56	25	25	150	0.75	115
FCI2012V-R68□	1.25±0.2	0.68	25	25	150	0.80	105
FCI2012V-1R0□	0.85±0.2	1.0	45	10	50	0.40	75
FCI2012V-1R5□	0.85±0.2	1.5	45	10	50	0.50	60
FCI2012V-1R8□	0.85±0.2	1.8	45	10	50	0.60	55
FCI2012V-2R2□	0.85±0.2	2.2	45	10	30	0.65	50
FCI2012V-2R7□	1.25±0.2	2.7	45	10	30	0.75	45
FCI2012V-3R3□	1.25±0.2	3.3	45	10	30	0.80	41
FCI2012V-4R7□	1.25±0.2	4.7	45	10	30	1.00	35
FCI2012V-100□	1.25±0.2	10.0	45	2	15	1.15	24

□ : K=±10%, L=±15%, M=±20%

Q vs Frequency,DC Bias Characteristics(Typical)