

Winding Type Inductor

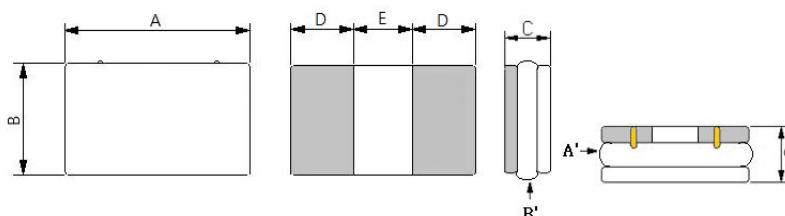
UHP201210RF-SERIES

1. Features

1. This specification applies Low Profile and Low DCR .
2. It can be applied to the Bluetooth device and other electronic equipment.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Operating temperature -40~+125°C (Including self - temperature rise)



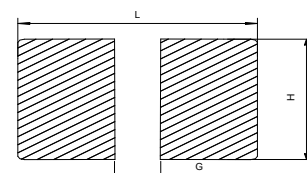
2. Dimension



A	A'	B	B'	C	D	E
2.00±0.2	2.34 Max	1.20±0.2	1.50 Max	1.00 Max	0.70 ref	0.60 ref

Units: mm

Recommended PC Board Pattern



L	G	H
2.40	0.60	1.44

3. Part Numbering

UHP	201210	RF	-	4R7	M
A	B	C		D	E

A: Series

B: Dimension

C: Lead Free

Ferrite

D: Inductance

4R7=4.7uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (uH) ±20% @ 0 A DC	Test Frequency (Hz)	I rms (mA)	I sat (mA)	DCR (Ω) ±20%
			Typ	Typ	
UHP201210RF-1R0M	1.00	0.5V/7.9M	2100	1100	0.062
UHP201210RF-2R2M	2.20	0.5V/7.9M	1400	750	0.150
UHP201210RF-4R7M	4.70	0.5V/7.9M	1000	470	0.320
UHP201210RF-100M	10.0	0.5V/2.5M	600	320	0.590

Note:

Isat: Saturation Current (Isat) will cause L0 to drop approximately 30% @ ambient temp. 25°C

Irms: Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

Rated DC current: The lower value of Irms and Isat.

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

10. Typical Performance Curves

