

Power Inductor

HPC252012CF-SERIES

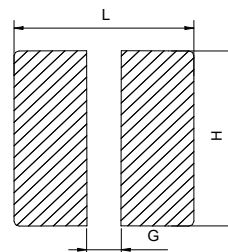
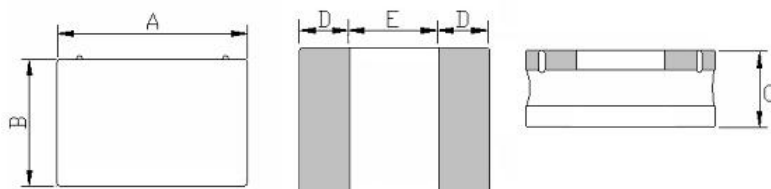
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125℃ (Including self - temperature rise)



2. Dimension

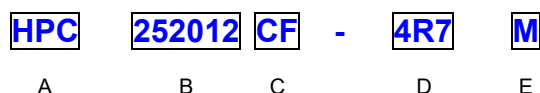
Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC252012CF	2.5±0.2	2.0±0.2	1.2Max	0.85 ref	0.80 ref

L(mm)	G(mm)	H(mm)
2.7	0.8	2.2

3. Part Numbering



- A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance
- Material
 4R7=4.70uH
 K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (uH)±20% @ 0 A	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω) ±20%
			Typ	Max	Typ	Max	
HPC252012CF-1R0Y	1.00±30%	0.1V/1M	2.20	1.76	2.80	2.24	0.073
HPC252012CF-1R5Y	1.50±30%	0.1V/1M	1.86	1.48	2.20	1.76	0.100
HPC252012CF-2R2M	2.20	0.1V/1M	1.70	1.36	1.80	1.44	0.129
HPC252012CF-3R3M	3.30	0.1V/1M	1.20	0.96	1.30	1.04	0.220
HPC252012CF-4R7M	4.70	0.1V/1M	1.04	0.83	1.10	0.88	0.290
HPC252012CF-6R8M	6.80	0.1V/1M	0.94	0.75	0.94	0.75	0.370
HPC252012CF-100M	10.0	0.1V/1M	0.84	0.60	0.82	0.65	0.570
HPC252012CF-150M	15.0	0.1V/1M	0.50	0.45	0.70	0.60	0.835
HPC252012CF-220M	22.0	0.1V/1M	0.45	0.40	0.60	0.55	1.200

Note:

Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40℃.
 Saturation Current (Isat) will cause L0 to drop approximately 30%.
 Rated DC current: The lower value of Irms and Isat.

10. Typical Performance Curves

