

Power Inductor

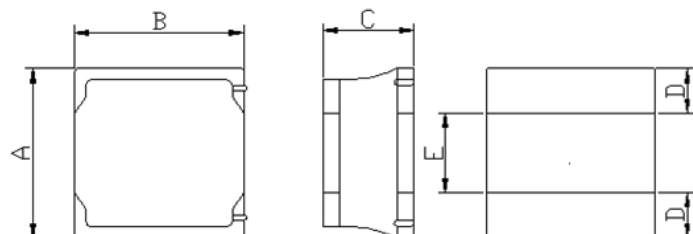
HPC3015TF-SERIES

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)



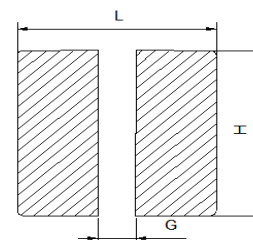
2. Dimension



A	B	C	D	E
3.0±0.2	3.0±0.2	1.5 max	1.0 ref	1.0 ref

Unit:mm

Recommended PC Board Pattern



L	G	H
3.2	1.0	3.2

3. Part Numbering

HPC	3015	TF	-	2R2	M
A	B	C		D	E

A: Series

B: Dimension

C: Lead Free

D: Inductance

2R2=2.20 uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω) $\pm 20\%$
			Typ	Max	Typ	Max	
HPC3015TF-R47M	0.47	1V100K	3.00	2.60	3.00	2.60	0.027
HPC3015TF-1R0M	1.00	1V100K	2.20	2.00	2.20	2.00	0.030
HPC3015TF-1R5M	1.50	1V100K	2.00	1.80	2.00	1.80	0.040
HPC3015TF-2R2M	2.20	1V100K	1.70	1.50	1.70	1.50	0.060
HPC3015TF-3R3M	3.30	1V100K	1.40	1.20	1.40	1.20	0.080
HPC3015TF-4R7M	4.70	1V100K	1.20	1.00	1.20	1.00	0.120
HPC3015TF-6R8M	6.80	1V100K	1.00	0.90	1.00	0.90	0.160
HPC3015TF-100M	10.0	1V100K	0.80	0.70	0.75	0.65	0.220
HPC3015TF-150M	15.0	1V100K	0.70	0.60	0.65	0.55	0.320
HPC3015TF-220M	22.0	1V100K	0.60	0.50	0.55	0.45	0.460
HPC3015TF-330M	33.0	1V100K	0.45	0.40	0.40	0.35	0.800
HPC3015TF-470M	47.0	1V100K	0.40	0.35	0.35	0.30	1.200

Note:

Isat: Saturation Current (Isat) will cause L0 to drop approximately 30%.

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.

10. Typical Performance Curves

