

Power Inductor

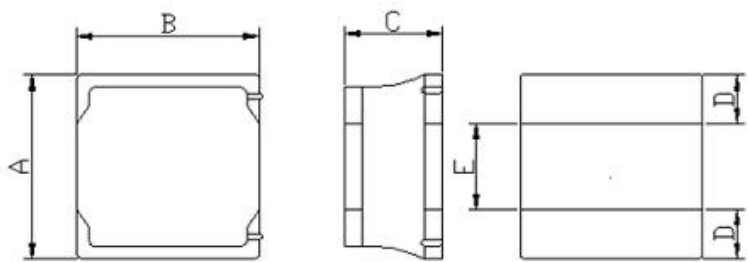
HPC4015TF-SERIES

1. Features

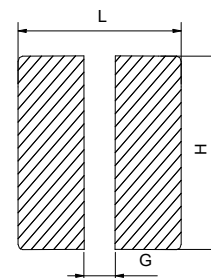
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125°C (Including self - temperature rise)



2. Dimension



Recommended PC Board Pattern

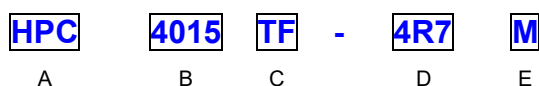


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4015TF	4.0±0.2	4.0±0.2	1.5 max	1.2 ref	1.6 ref

L(mm)	G(mm)	H(mm)
4.2	1.4	4.2

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.7uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)typ	I rms (A)typ
HPC4015TF-1R0M	1.00	1V100K	0.033	4.00	3.70
HPC4015TF-1R5M	1.50	1V100K	0.041	3.30	3.30
HPC4015TF-2R2M	2.20	1V100K	0.055	2.90	2.90
HPC4015TF-3R3M	3.30	1V100K	0.065	2.30	2.30
HPC4015TF-4R7M	4.70	1V100K	0.085	1.90	1.90
HPC4015TF-5R6M	5.60	1V100K	0.103	1.70	1.70
HPC4015TF-6R8M	6.80	1V100K	0.110	1.60	1.60
HPC4015TF-100M	10.0	1V100K	0.160	1.40	1.40
HPC4015TF-150M	15.0	1V100K	0.230	1.10	1.10

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.

10. Typical Performance Curves

