

Power Inductor

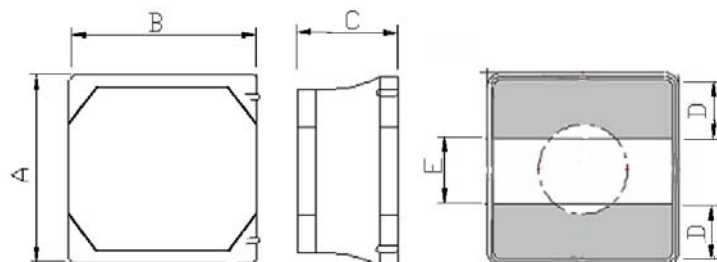
HPC4010TF-SERIES

1. Features

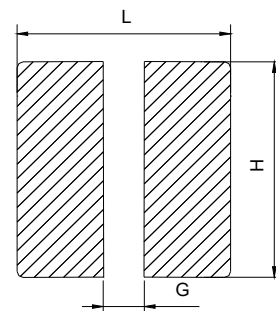
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125°C (Including self - temperature rise)



2. Dimension



Recommended PC Board Pattern

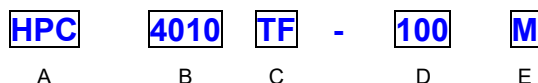


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4010TF	4.0±0.2	4.0±0.2	1.0 max	1.2 ref	1.6 ref

Units: mm

L(mm)	G(mm)	H(mm)
4.2	1.2	4.2

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

100=10uH

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)		I rms (A)	
				typ	Max	typ	Max
HPC4010TF -1R0Y	1.0	1V100K	0.056	2.40	2.00	2.30	1.90
HPC4010TF -2R2M	2.2	1V100K	0.085	1.50	1.20	1.80	1.50
HPC4010TF-3R3M	3.3	1V100K	0.100	1.30	1.10	1.70	1.40
HPC4010TF-4R7M	4.7	1V100K	0.140	1.20	0.95	1.50	1.20
HPC4010TF-6R8M	6.8	1V100K	0.200	1.00	0.80	1.20	1.00
HPC4010TF-100M	10	1V100K	0.300	0.80	0.62	0.90	0.75
HPC4010TF-150M	15	1V100K	0.430	0.70	0.54	0.80	0.60
HPC4010TF-220M	22	1V100K	0.570	0.60	0.45	0.80	0.50

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

