

Power Inductor

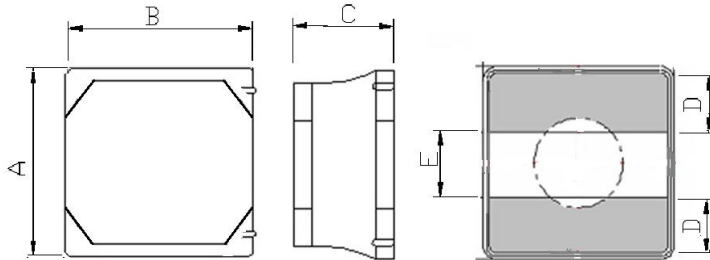
HPC4012TV-Series

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200
4. Operating temperature:-55~+125°C (Including self - temperature rise)

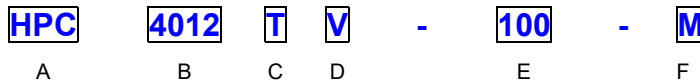


2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4012TV	4.0±0.2	4.0±0.2	1.2 max.	1.2 ref.	1.6 ref.

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead Free
- D: Category Code V=Vehicle
- E: Inductance 100=10.0uH
- F: Inductance Tolerance M= ±20%; Y= ±30%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)typ.	I rms (A)typ.
HPC4012TV -R47M	0.47	±20%	1V100K	0.025	4.00	3.20
HPC4012TV -1R0M	1.0	±20%	1V100K	0.042	2.80	2.20
HPC4012TV -1R5M	1.5	±20%	1V100K	0.050	2.20	2.00
HPC4012TV -2R2M	2.2	±20%	1V100K	0.060	1.65	1.90
HPC4012TV -3R3M	3.3	±20%	1V100K	0.070	1.40	1.70
HPC4012TV -4R7M	4.7	±20%	1V100K	0.095	1.20	1.50
HPC4012TV -5R6M	5.6	±20%	1V100K	0.120	1.10	1.40
HPC4012TV -6R8M	6.8	±20%	1V100K	0.125	0.90	1.30
HPC4012TV -100M	10	±20%	1V100K	0.180	0.80	1.10
HPC4012TV -150M	15	±20%	1V100K	0.260	0.65	0.75
HPC4012TV -220M	22	±20%	1V100K	0.400	0.50	0.62

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

9. Packaging Information

