

Power Inductor

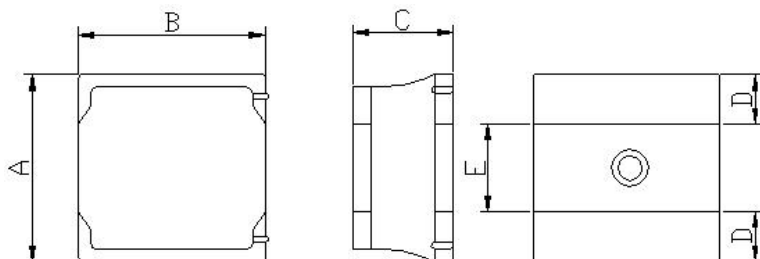
HPC3012TF-SERIES

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



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC3012TF	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

3. Part Numbering

HPC
3012
TF
-
4R7
M

A

B

C

D

E

A: Series

B: Dimension

C: Lead Free

D: Inductance

4R7=4.7uH

E: Inductance Tolerance

M=±20% ; Y=±30%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC3012TF-1R0Y	1.00	±30%	0.1V/1M	0.042	2.50	2.20
HPC3012TF-1R5Y	1.50	±30%	0.1V/1M	0.056	2.00	2.00
HPC3012TF-2R2M	2.20	±20%	0.1V/1M	0.080	1.80	1.90
HPC3012TF-3R3M	3.30	±20%	0.1V/1M	0.100	1.50	1.70
HPC3012TF-4R7M	4.70	±20%	0.1V/1M	0.130	1.30	1.50
HPC3012TF-6R8M	6.80	±20%	0.1V/1M	0.180	1.20	1.20
HPC3012TF-100M	10.0	±20%	0.1V/1M	0.245	0.90	1.00
HPC3012TF-150M	15.0	±20%	0.1V/1M	0.386	0.80	0.90
HPC3012TF-220M	22.0	±20%	0.1V/1M	0.580	0.60	0.70
HPC3012TF-330M	33.0	±20%	0.1V/1M	1.10	0.45	0.45
HPC3012TF-470M	47.0	±20%	0.1V/1M	1.45	0.40	0.40

Note:

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

I rms : Heat Rated Current (I rms) will cause the coil temperature rise approximately ΔT of 40°C.

Rated DC Current : The less value which is I rms or Isat.

5. Typical Performance Curves

