

# Power Inductor

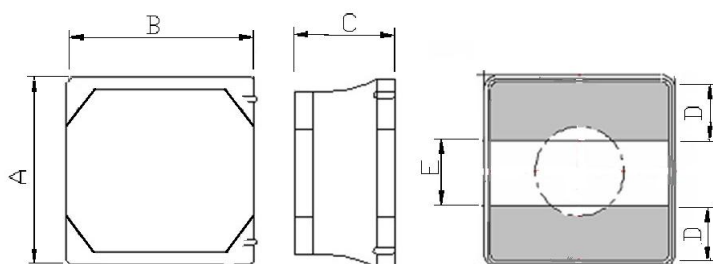
HPC4012TF-SERIES

## 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)

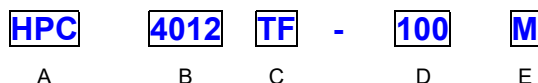


## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC4012TF	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: Inductance                      100=10uH  
 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)typ.	I sat (A)Max.	I rms (A)typ.	I rms (A)Max.
HPC4012TF-1R0Y	1.0	±30%	1V100K	0.042	3.30	2.80	2.50	2.20
HPC4012TF-2R2M	2.2	±20%	1V100K	0.060	1.95	1.65	2.20	1.90
HPC4012TF-3R3M	3.3	±20%	1V100K	0.070	1.60	1.40	1.90	1.70
HPC4012TF-4R7M	4.7	±20%	1V100K	0.095	1.40	1.20	1.70	1.50
HPC4012TF-6R8M	6.8	±20%	1V100K	0.125	1.10	0.90	1.50	1.30
HPC4012TF-100M	10	±20%	1V100K	0.180	1.00	0.80	1.30	1.10
HPC4012TF-150M	15	±20%	1V100K	0.260	0.80	0.65	0.95	0.75
HPC4012TF-220M	22	±20%	1V100K	0.400	0.60	0.50	0.72	0.62

Note:

I<sub>sat</sub>: Saturation Current (I<sub>sat</sub>) will cause L0 to drop approximately 30%.

I<sub>rms</sub>: Heat Rated Current (I<sub>rms</sub>) will cause the coil temperature rise approximately ΔT of 40℃

### 9. Typical Performance Curves

