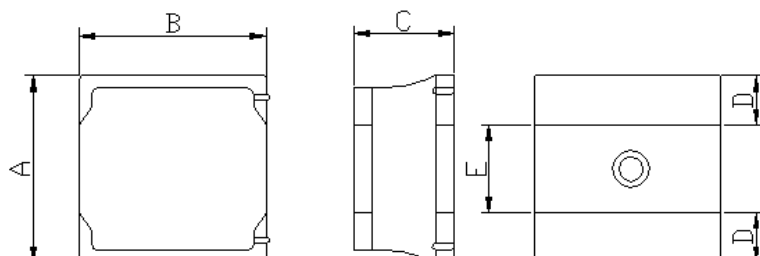


## 1. Features

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)



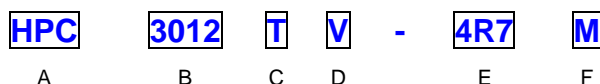
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC3012TV	3.0±0.2	3.0±0.2	1.2 max.	1.0 ref.	1.0 ref.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free  
 D: Category Code                      V=Vehicle  
 E: Inductance                            4R7=4.7uH  
 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.
HPC3012TV-1R0Y	1.0	±30%	0.1V/1M	0.042	2.15	2.00
HPC3012 TV-1R5Y	1.5	±30%	0.1V/1M	0.056	1.70	1.85
HPC3012 TV-2R2M	2.2	±20%	0.1V/1M	0.080	1.50	1.70
HPC3012 TV-3R3M	3.3	±20%	0.1V/1M	0.100	1.20	1.55
HPC3012 TV-4R7M	4.7	±20%	0.1V/1M	0.130	1.05	1.30
HPC3012 TV-6R8M	6.8	±20%	0.1V/1M	0.180	0.90	1.05
HPC3012 TV-100M	10	±20%	0.1V/1M	0.245	0.76	0.89
HPC3012 TV-150M	15	±20%	0.1V/1M	0.386	0.62	0.74
HPC3012 TV-220M	22	±20%	0.1V/1M	0.580	0.49	0.61

Note:

Isat : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

Irms : Based on temperature rise (ΔT : 40°C.)

