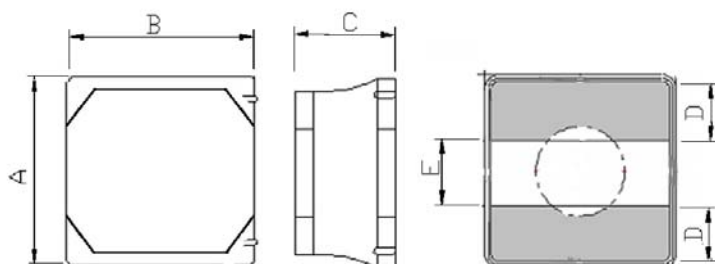


## 1. Features

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)



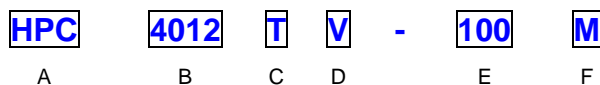
## 2. Dimension



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.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free  
 D: Category Code                      V=Vehicle  
 E: Inductance                            100=10uH  
 F: Inductance Tolerance                M=±20% ; Y=±30%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) ±20%	I sat (A)typ.	I sat (A)Max.	I rms (A)typ.	I rms (A)Max.
HPC4012TV -1R0Y	1.0	±30%	1V100K	100	0.042	3.30	2.80	2.50	2.20
HPC4012TV -2R2M	2.2	±20%	1V100K	70	0.060	1.95	1.65	2.20	1.90
HPC4012TV -3R3M	3.3	±20%	1V100K	60	0.070	1.60	1.40	1.90	1.70
HPC4012TV -4R7M	4.7	±20%	1V100K	45	0.095	1.40	1.20	1.70	1.50
HPC4012TV -6R8M	6.8	±20%	1V100K	35	0.125	1.10	0.90	1.50	1.30
HPC4012TV -100M	10	±20%	1V100K	30	0.180	1.00	0.80	1.30	1.10
HPC4012TV -150M	15	±20%	1V100K	24	0.260	0.80	0.65	0.95	0.75
HPC4012TV -220M	22	±20%	1V100K	18	0.400	0.60	0.50	0.72	0.62

Note:

Isat : Based on inductance change ( $\Delta L/L0 : \leq 30\%$ ) @ ambient temp. 25°CI rms : Based on temperature rise ( $\Delta T : 40^\circ\text{C}$  typ.) max

