

# Power Inductor

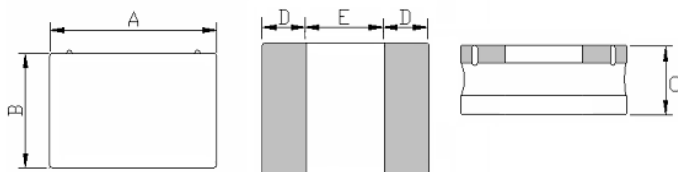
**HPC201610CF-Series**

## 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)



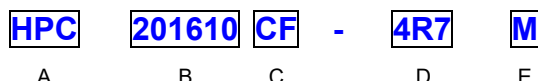
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
HPC201610CF	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0max.	0.60 ref.	0.80 ref.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free                      Material  
 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)
HPC201610CF-R47Y	0.47	±30%	0.1V/1M	0.044	3.00	2.60
HPC201610CF-R68Y	0.68	±30%	0.1V/1M	0.062	2.45	2.25
HPC201610CF-1R0Y	1.0	±30%	0.1V/1M	0.080	1.95	1.75
HPC201610CF-1R5Y	1.5	±30%	0.1V/1M	0.130	1.65	1.40
HPC201610CF-2R2M	2.2	±20%	0.1V/1M	0.145	1.45	1.35
HPC201610CF-3R3M	3.3	±20%	0.1V/1M	0.245	1.05	1.05
HPC201610CF-4R7M	4.7	±20%	0.1V/1M	0.360	0.85	1.00
HPC201610CF-6R8M	6.8	±20%	0.1V/1M	0.500	0.80	0.70
HPC201610CF-100M	10	±20%	0.1V/1M	0.720	0.62	0.50
HPC201610CF-150M	15	±20%	0.1V/1M	1.400	0.50	0.40
HPC201610CF-180M	18	±20%	0.1V/1M	1.800	0.45	0.38
HPC201610CF-220M	22	±20%	0.1V/1M	2.000	0.43	0.30

Note:

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

