

Power Inductor

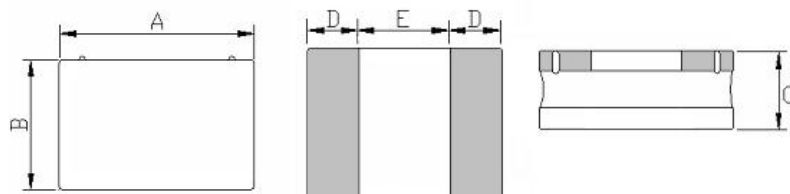
HPC201610CF-SERIES

1. Features

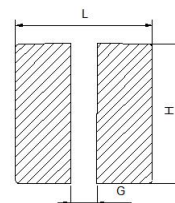
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125°C (Including self - temperature rise)



2. Dimension



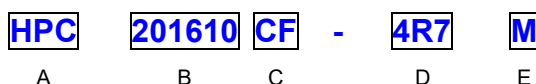
Recommended Land pattern



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

L(mm)	G(mm)	H(mm)
2.4	0.8	1.8

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

4R7=4.70uH

E: Inductance Tolerance

K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω) ±20%
			typ	Max	typ	Max	
HPC201610CF-R47Y	0.47	0.1V/1M	2.60	2.35	3.00	2.70	0.044
HPC201610CF-R68Y	0.68	0.1V/1M	2.25	2.05	2.45	2.00	0.062
HPC201610CF-1R0Y	1.00	0.1V/1M	1.75	1.60	1.95	1.80	0.080
HPC201610CF-1R5Y	1.50	0.1V/1M	1.40	1.26	1.65	1.46	0.130
HPC201610CF-2R2M	2.20	0.1V/1M	1.35	1.20	1.45	1.26	0.145
HPC201610CF-3R3M	3.30	0.1V/1M	1.05	0.95	1.05	0.90	0.245
HPC201610CF-4R7M	4.70	0.1V/1M	1.00	0.90	0.85	0.77	0.360
HPC201610CF-6R8M	6.80	0.1V/1M	0.70	0.55	0.80	0.72	0.500
HPC201610CF-100M	10.0	0.1V/1M	0.50	0.45	0.62	0.55	0.720
HPC201610CF-150M	15.0	0.1V/1M	0.40	0.36	0.50	0.45	1.400
HPC201610CF-180M	18.0	0.1V/1M	0.38	0.34	0.45	0.40	1.800
HPC201610CF-220M	22.0	0.1V/1M	0.30	0.27	0.43	0.38	2.000

Note:

Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40°C.

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

Rated DC current: The lower value of Irms and Isat.

10. Typical Performance Curves

