

Power Inductor

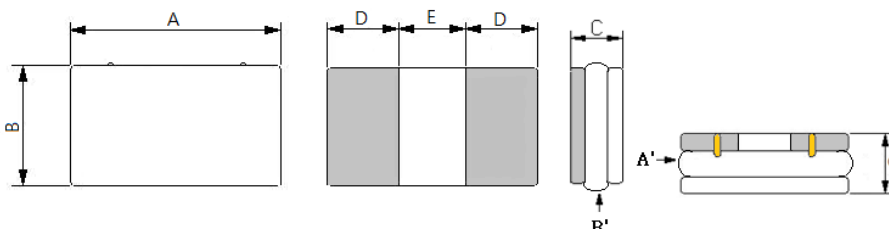
HPC160809TF-SERIES

1. Features

1. This specification applies Low Profile (0.95mm(max.)and Low DCR .
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



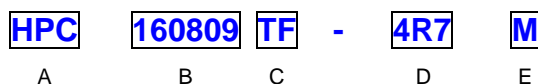
2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
HPC160809TF	1.60 ± 0.15	1.90 Max	0.90 ± 0.15	1.10 Max	0.95 Max.	0.50 ref.	0.60 ref.

Units: mm

3. Part Numbering



- A: Series
 B: Dimension
 C: Lead Free Ferrite
 D: Inductance 4R7=4.70uH
 E: Inductance Tolerance M=±20% , Y=±30% ,

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Ls/Q Test Frequency (Hz)	DCR (Ω) ± 30%.	SRF (MHz) Typ.	Q Typ.	I sat (mA)Typ.	I rms (mA)Typ.
HPC160809TF-1R0M	1.0	M/Y	0.5V/7.9M	0.12	270	14	800	900
HPC160809TF-2R2M	2.2	M/Y	0.5V/7.9M	0.24	150	14	400	450
HPC160809TF-4R7M	4.7	M/Y	0.5V/7.9M	0.46	100	15	300	350
HPC160809TF-100M	10.0	M/Y	0.5V/2.5M	0.93	70	25	200	250

Note:

- I_{sat} : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C
 I_{rms} : Based on temperature rise (ΔT : 40°C.) Max
 Measurement board data
 I_{rms}
 Material : FR4
 Board dimensions : 100 X 50 X 1.6t mm
 Pattern dimensions: 45 X 30 mm (Double side board)
 Pattern thickness : 50 μm