

# Power Inductor

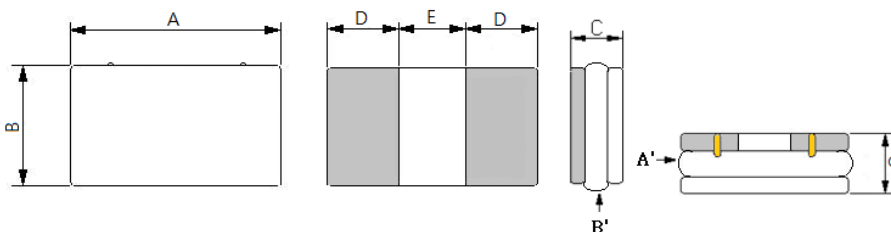
**UHP160808TF-SERIES**

## 1. Features

1. This specification applies Low Profile (0.80mm (max.) and Low DCR .
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



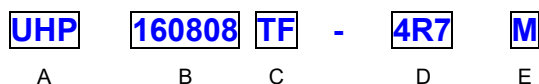
## 2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
UHP160808TF	1.60 ± 0.15	1.80 Max	0.90 ± 0.15	1.10 Max	0.80 Max.	0.50 ref.	0.60 ref.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free                      Ferrite  
 D: Inductance                      4R7=4.7uH  
 E: Inductance Tolerance        M=±20%

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) Max.	I sat (mA)	I rms (mA)
UHP160808TF-1R0M	1.0	±20%	1V/1M	0.150	800	1150
UHP160808TF-2R2M	2.2	±20%	1V/1M	0.345	520	750
UHP160808TF-4R7M	4.7	±20%	1V/1M	0.750	370	500
UHP160808TF-100M	10	±20%	1V/1M	1.760	210	300

Note:

 Isat : Based on inductance change (  $\Delta L/L0 : \leq 30\%$  ) @ ambient temp. 25°C

 Irms : Based on temperature rise (  $\Delta T : 40^\circ\text{C}$  ) Max

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

 Pattern thickness : 50  $\mu\text{m}$