

Power Inductor

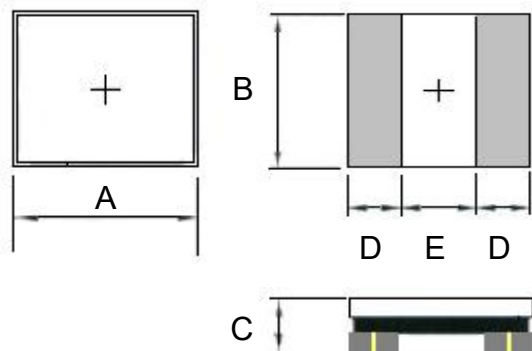
HPC252008MF-SERIES

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)
HPC252008MF	2.50-0.1/+0.3	2.0-0.05/+0.35	0.80 max.	0.85 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%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
HPC252008MF-R47M	0.47	±20%	0.1V/1M	0.080	0.096	2.50	1.45
HPC252008MF-R68M	0.68	±20%	0.1V/1M	0.100	0.120	2.05	1.35
HPC252008MF-1R0M	1.0	±20%	0.1V/1M	0.120	0.145	1.75	1.20
HPC252008MF-1R5M	1.5	±20%	0.1V/1M	0.170	0.200	1.65	1.05
HPC252008MF-2R2M	2.2	±20%	0.1V/1M	0.210	0.250	1.40	0.95
HPC252008MF-3R3M	3.3	±20%	0.1V/1M	0.300	0.360	1.10	0.85
HPC252008MF-4R7M	4.7	±20%	0.1V/1M	0.400	0.480	0.90	0.70
HPC252008MF-6R8M	6.8	±20%	0.1V/1M	0.670	0.800	0.75	0.55
HPC252008MF-100M	10.0	±20%	0.1V/1M	0.930	1.110	0.55	0.45

Note:

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

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

Rated DC Current : The less value which is Irms or Isat.

5. Typical Performance Curve

