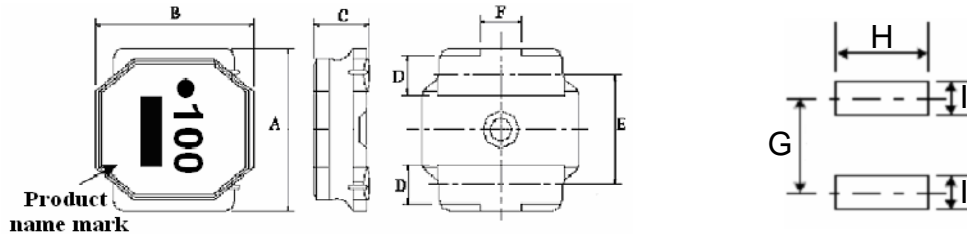


1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



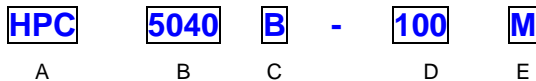
| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | F(mm) | G(mm) | H(mm) | I(mm) |
|----------|---------|---------|----------------------------|---------|---------|----------|----------|----------|----------|
| HPC5040B | 4.9±0.2 | 4.9±0.2 | *1 4.1 max. *2 4.0 max. | 1.2±0.2 | 3.3±0.2 | 1.3 typ. | 3.6 ref. | 4.0 ref. | 1.5 ref. |

*1 1R5~100 Type

*2 150~470 Type

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Control S/N

D: Inductance 100=10.0uH

E: Inductance Tolerance M=±20% ; Y=±30%

4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | SRF (MHz) min. | DCR (Ω) ±20% | I sat (A) | I rms (A) |
|----------------------|-----------------|---------------|---------------------|----------------|--------------|-----------|-----------|
| HPC5040B-1R5Y | 1.5 | ±30% | 1V100K | 60 | 0.017 | 6.40 | 4.50 |
| HPC5040B-2R2Y | 2.2 | ±30% | 1V100K | 42 | 0.022 | 5.00 | 3.70 |
| HPC5040B-3R3Y | 3.3 | ±30% | 1V100K | 32 | 0.027 | 4.00 | 3.30 |
| HPC5040B-4R7Y | 4.7 | ±30% | 1V100K | 28 | 0.029 | 3.30 | 3.10 |
| HPC5040B-6R8M | 6.8 | ±20% | 1V100K | 21 | 0.049 | 2.80 | 2.40 |
| HPC5040B-100M | 10 | ±20% | 1V100K | 18 | 0.056 | 2.30 | 2.10 |
| HPC5040B-150M | 15 | ±20% | 1V100K | 13 | 0.080 | 2.00 | 1.80 |
| HPC5040B-220M | 22 | ±20% | 1V100K | 9 | 0.126 | 1.50 | 1.40 |

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I_{rms} : Based on temperature rise (ΔT : 40°C typ.)