

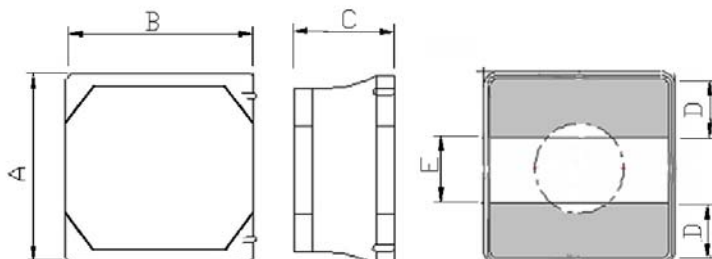
Power Inductor HPC4010TF-SERIES

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)

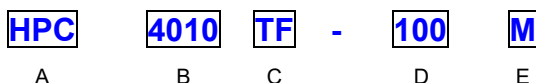


2. Dimension



| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|-----------|---------|---------|----------|----------|----------|
| HPC4010TF | 4.0±0.2 | 4.0±0.2 | 1.0 max. | 1.2 ref. | 1.6 ref. |

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead Free
- D: Inductance 100=10uH
- E: Inductance Tolerance M=±20% ; Y=±30%

4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) ±20% | I sat (A)typ. | I rms (A)typ. |
|----------------------|-----------------|---------------|---------------------|--------------|---------------|---------------|
| HPC4010TF -1R0Y | 1.00 | ±30% | 1V100K | 0.056 | 2.40 | 2.30 |
| HPC4010TF -2R2M | 2.20 | ±20% | 1V100K | 0.085 | 1.50 | 1.80 |
| HPC4010TF-3R3M | 3.30 | ±20% | 1V100K | 0.100 | 1.30 | 1.70 |
| HPC4010TF-4R7M | 4.70 | ±20% | 1V100K | 0.140 | 1.20 | 1.50 |
| HPC4010TF-6R8M | 6.80 | ±20% | 1V100K | 0.200 | 1.00 | 1.20 |
| HPC4010TF-100M | 10.0 | ±20% | 1V100K | 0.300 | 0.80 | 0.90 |
| HPC4010TF-150M | 15.0 | ±20% | 1V100K | 0.430 | 0.70 | 0.80 |
| HPC4010TF-220M | 22.0 | ±20% | 1V100K | 0.570 | 0.60 | 0.80 |

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

9. Typical Performance Curves

