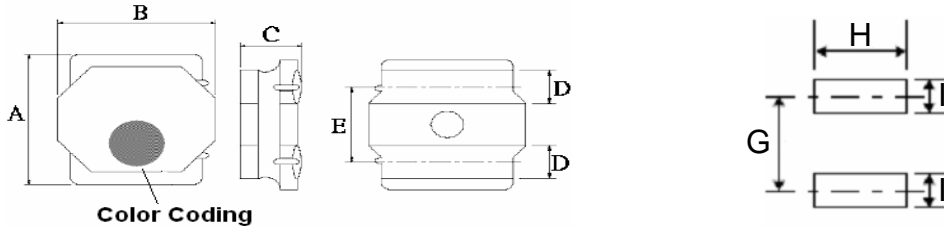


### 1. Features

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



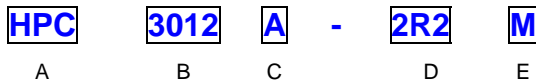
### 2. Dimension



| Series   | A(mm)   | B(mm)   | C(mm)    | D(mm)   | E(mm)   | G(mm)    | H(mm)    | I(mm)    |
|----------|---------|---------|----------|---------|---------|----------|----------|----------|
| HPC3012A | 3.0±0.1 | 3.0±0.1 | 1.2 max. | 0.9±0.2 | 1.9±0.2 | 2.2 ref. | 2.7 ref. | 0.8 ref. |

Units: mm

### 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Control S/N  
 D: Inductance                      2R2=2.2uH  
 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) | Color Coding |
|----------------------|-----------------|---------------|---------------------|----------------|--------------|-----------|-----------|--------------|
| HPC3012A-1R0Y        | 1.0             | ±30%          | 1V100K              | 111            | 0.048        | 2.20      | 1.71      | Silver       |
| HPC3012A-1R5Y        | 1.5             | ±30%          | 1V100K              | 95             | 0.055        | 1.70      | 1.60      | Silver       |
| HPC3012A-2R2M        | 2.2             | ±20%          | 1V100K              | 78             | 0.075        | 1.50      | 1.37      | Silver       |
| HPC3012A-3R3M        | 3.3             | ±20%          | 1V100K              | 61             | 0.100        | 1.20      | 1.21      | Silver       |
| HPC3012A-4R7M        | 4.7             | ±20%          | 1V100K              | 50             | 0.130        | 1.00      | 1.06      | Silver       |
| HPC3012A-6R8M        | 6.8             | ±20%          | 1V100K              | 43             | 0.190        | 0.85      | 0.89      | Silver       |
| HPC3012A-100M        | 10              | ±20%          | 1V100K              | 32             | 0.270        | 0.73      | 0.72      | Silver       |
| HPC3012A-150M        | 15              | ±20%          | 1V100K              | 26             | 0.450        | 0.53      | 0.57      | Silver       |
| HPC3012A-220M        | 22              | ±20%          | 1V100K              | 22             | 0.630        | 0.50      | 0.50      | Silver       |

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.)