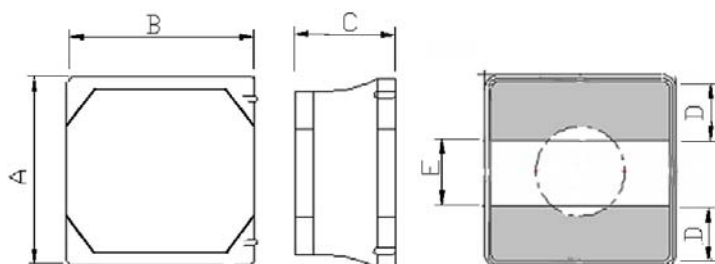


## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature :-40~+125℃ (Including self - temperature rise)

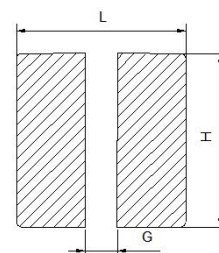


## 2. Dimension



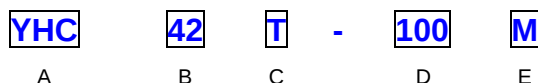
| Series | A(mm)   | B(mm)   | C(mm)    | D(mm)    | E(mm)    |
|--------|---------|---------|----------|----------|----------|
| YHC42T | 4.0±0.2 | 4.0±0.2 | 1.2 max. | 1.2 ref. | 1.6 ref. |

Recommended PC Board Pattern



| L   | G   | H   |
|-----|-----|-----|
| 4.2 | 1.2 | 4.2 |

## 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<br>Part Number | Inductance<br>(uH) | Tolerance<br>(%) | Test<br>Frequency<br>(Hz) | DCR<br>(Ω) ±20% | I sat<br>(A)typ. | I sat<br>(A)Max. | I rms<br>(A)typ. | I rms<br>(A)Max. |
|-------------------------|--------------------|------------------|---------------------------|-----------------|------------------|------------------|------------------|------------------|
| YHC42T-1R0YA            | 1.0                | ±30%             | 1V100K                    | 0.042           | 3.30             | 2.80             | 2.50             | 2.20             |
| YHC42T-2R2MA            | 2.2                | ±20%             | 1V100K                    | 0.060           | 1.95             | 1.65             | 2.20             | 1.90             |
| YHC42T-3R3MA            | 3.3                | ±20%             | 1V100K                    | 0.070           | 1.60             | 1.40             | 1.90             | 1.70             |
| YHC42T-4R7MA            | 4.7                | ±20%             | 1V100K                    | 0.095           | 1.40             | 1.20             | 1.70             | 1.50             |
| YHC42T-6R8MA            | 6.8                | ±20%             | 1V100K                    | 0.125           | 1.10             | 0.90             | 1.50             | 1.30             |
| YHC42T-100MA            | 10                 | ±20%             | 1V100K                    | 0.180           | 1.00             | 0.80             | 1.30             | 1.10             |
| YHC42T-150MA            | 15                 | ±20%             | 1V100K                    | 0.260           | 0.80             | 0.65             | 0.95             | 0.75             |
| YHC42T-220MA            | 22                 | ±20%             | 1V100K                    | 0.400           | 0.60             | 0.50             | 0.72             | 0.62             |

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℃