

## Dimensions

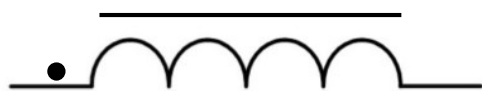


| A               | B              | C             | D             | E             |
|-----------------|----------------|---------------|---------------|---------------|
| 14.0± 0.5<br>mm | 12.8±0.3<br>mm | 3.8±0.3<br>mm | 6.5Max.<br>mm | 2.5±0.3<br>mm |

## Product Marking

|                 |                       |
|-----------------|-----------------------|
| Product Marking | 470 (Inductance Code) |
|-----------------|-----------------------|

## Schematic Drawing



Equivalent Circuit

## Electrical Properties

| Properties          |                  | Value | Unit | Tol. | Test Conditions                       |
|---------------------|------------------|-------|------|------|---------------------------------------|
| Inductance          | L                | 47    | μH   | ±20% | 100KHz 1.0V                           |
| Heat Rating Current | I <sub>rms</sub> | 4.0   | A    | Typ. |                                       |
| Saturation Current  | I <sub>sat</sub> | 6.0   | A    | Typ. | L 6.0A drop 30% MAX.<br>@ 100KHz/1.0V |
| DC Resistance       | R <sub>DC</sub>  | 82.0  | mΩ   | Typ. |                                       |
| DC Resistance       | R <sub>DC</sub>  | 98.0  | mΩ   | Max  |                                       |

Operating temperature range: -45 to + 125 °C

Storage condition:

Temperature Range: 0°C ~ 35°C; -40°C ~ 105°C (after PCB)

Humidity Range: 50% ~ 70% RH

Packaging: Taping : 400 Piece/reel

## Recommended land pattern



|          |               |
|----------|---------------|
| <b>G</b> | 3.40 mm (REF) |
| <b>H</b> | 4.50 mm (REF) |
| <b>I</b> | 5.35 mm (REF) |