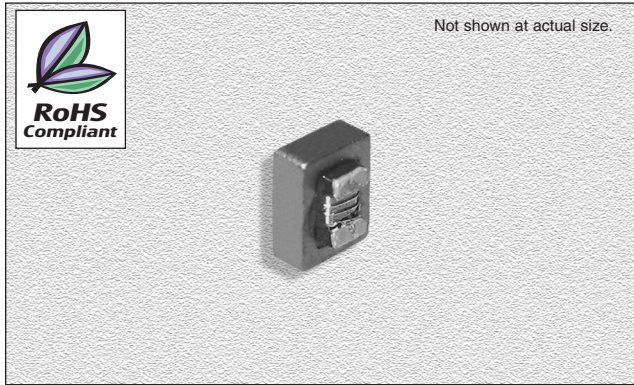


## CT0603PSF Series

From .78  $\mu\text{H}$  to 47  $\mu\text{H}$



### CHARACTERISTICS

**Description:** SMD shielded wire-wound chip inductor

**Applications:** LC resonant circuits such as oscillator and signal generators, impedance matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment

**Operating Temperature:** -40°C to +105°C

**Inductance Tolerance:**  $\pm 20\%$

**Testing:** Inductance and Q tested on an HP4285A at specified frequency.

**Packaging:** Tape & Reel

**Miscellaneous:** RoHS Compliant.

**Marking:** Parts are marked with inductance code

**Additional Information:** Additional electrical & physical information available upon request

**Samples available. See website for ordering information.**

### SPECIFICATIONS

Parts are available  $\pm 20\%$  tolerance only.

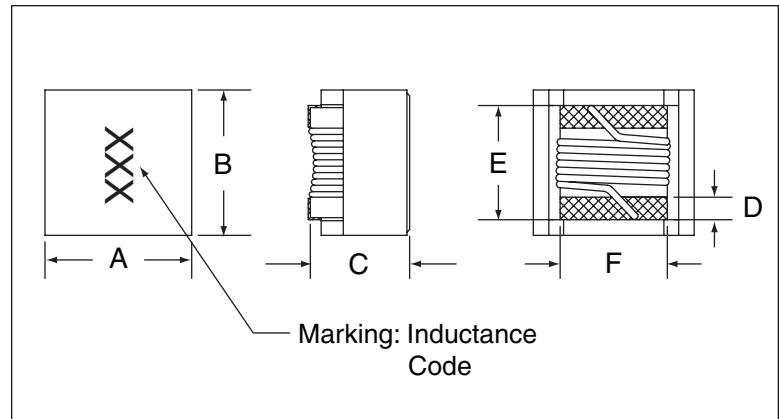
\*Isat: DC current at which the inductance drops 10% Typ. from its value without current.

\*\*Irms: Average current for 40°C temp. rise from 25°C ambient.

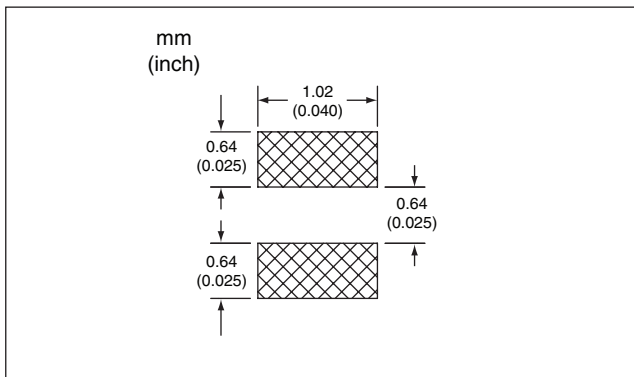
| Part Number    | Inductance ( $\mu\text{H} \pm 20\%$ ) | L Test Freq. (kHz) | Q Fact. Min. | Q Test Freq. (MHz) | SRF Typ. (MHz) | DCR Max. ( $\Omega$ ) | *Isat (A) | **Irms (A) |
|----------------|---------------------------------------|--------------------|--------------|--------------------|----------------|-----------------------|-----------|------------|
| CT0603PSF-781M | .78                                   | 100                | 15           | 1.0                | 475            | 0.24                  | 0.55      | 1.30       |
| CT0603PSF-102M | 1.0                                   | 100                | 15           | 1.0                | 390            | 0.26                  | 0.40      | 1.00       |
| CT0603PSF-182M | 1.8                                   | 100                | 15           | 1.0                | 155            | 0.56                  | 0.39      | 0.70       |
| CT0603PSF-222M | 2.2                                   | 100                | 15           | 1.0                | 245            | 0.75                  | 0.33      | 0.60       |
| CT0603PSF-272M | 2.7                                   | 100                | 15           | 1.0                | 127            | 0.75                  | 0.33      | 0.55       |
| CT0603PSF-332M | 3.3                                   | 100                | 15           | 1.0                | 72             | 0.88                  | 0.32      | 0.50       |
| CT0603PSF-392M | 3.9                                   | 100                | 15           | 1.0                | 72             | 1.00                  | 0.27      | 0.48       |
| CT0603PSF-472M | 4.7                                   | 100                | 15           | 1.0                | 64             | 1.08                  | 0.26      | 0.47       |
| CT0603PSF-562M | 5.6                                   | 100                | 15           | 1.0                | 51             | 1.18                  | 0.23      | 0.41       |
| CT0603PSF-682M | 6.8                                   | 100                | 15           | 1.0                | 39             | 1.23                  | 0.23      | 0.40       |
| CT0603PSF-822M | 8.2                                   | 100                | 20           | 1.0                | 30             | 1.43                  | 0.22      | 0.39       |
| CT0603PSF-103M | 10                                    | 100                | 20           | 1.0                | 20             | 1.60                  | 0.21      | 0.38       |
| CT0603PSF-153M | 15                                    | 100                | 20           | 1.0                | 12             | 1.92                  | 0.16      | 0.35       |
| CT0603PSF-223M | 22                                    | 100                | 20           | 1.0                | 16             | 2.96                  | 0.13      | 0.27       |
| CT0603PSF-333M | 33                                    | 100                | 20           | 1.0                | 12             | 5.63                  | 0.10      | 0.20       |
| CT0603PSF-473M | 47                                    | 100                | 20           | 1.0                | 12             | 5.69                  | 0.10      | 0.18       |

### PHYSICAL DIMENSIONS

| Size   | A Max. | B Max. | C Max. | D Ref. | E Ref. | F Ref. |
|--------|--------|--------|--------|--------|--------|--------|
| mm     | 2.59   | 2.08   | 1.8    | 0.33   | 1.52   | 0.76   |
| inches | 0.10   | 0.08   | 0.07   | 0.013  | 0.06   | 0.03   |



### PAD LAYOUT



08.08.07