

## CT1812SF Series

### From 4.7 $\mu$ H to 1,000 $\mu$ H

#### SPECIFICATIONS

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

| Part Number   | Inductance ( $\mu$ H) | L Test Freq. (MHz) | Q Min. | SRF (MHz) Min. | DCR ( $\Omega$ ) Max. | IDC (mA) Max. |
|---------------|-----------------------|--------------------|--------|----------------|-----------------------|---------------|
| CT1812SF-4R7M | 4.7                   | 7.96               | 6      | 50.0           | 0.90                  | 471           |
| CT1812SF-8R2M | 8.2                   | 7.96               | 5      | 30.0           | 0.82                  | 292           |
| CT1812SF-100M | 10                    | 2.52               | 8      | 25.0           | 1.80                  | 333           |
| CT1812SF-150M | 15                    | 2.52               | 8      | 13.0           | 2.20                  | 301           |
| CT1812SF-470M | 47                    | 2.52               | 10     | 11.5           | 1.20                  | 120           |
| CT1812SF-560M | 56                    | 2.52               | 10     | 8.00           | 3.00                  | 235           |
| CT1812SF-680M | 68                    | 2.52               | 15     | 9.00           | 6.00                  | 130           |
| CT1812SF-820M | 82                    | 2.52               | 30     | 6.00           | 12.0                  | 79            |
| CT1812SF-101M | 100                   | 2.52               | 30     | 6.00           | 14.0                  | 73            |
| CT1812SF-121M | 120                   | 0.796              | 35     | 5.00           | 3.64                  | 139           |
| CT1812SF-221M | 220                   | 0.796              | 40     | 4.00           | 8.00                  | 150           |
| CT1812SF-471M | 470                   | 0.796              | 40     | 3.30           | 14.0                  | 82            |
| CT1812SF-681M | 680                   | 0.796              | 40     | 2.10           | 17.0                  | 90            |
| CT1812SF-821M | 820                   | 0.796              | 25     | 1.45           | 16.8                  | 210           |
| CT1812SF-102M | 1000                  | 0.796              | 40     | 1.80           | 29.0                  | 6             |



#### CHARACTERISTICS

**Description:** SMD Shielded Wire-wound Chip Inductor.

**Applications:** Personal computers, ADSL/VoIP, Hard disk drives, etc.

**Operating Temperature:**  $-35^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

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

**Testing:** Inductance is tested on a HP4285A or a HP4286A at the specified frequency.

**Packaging:** Tape & Reel.

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

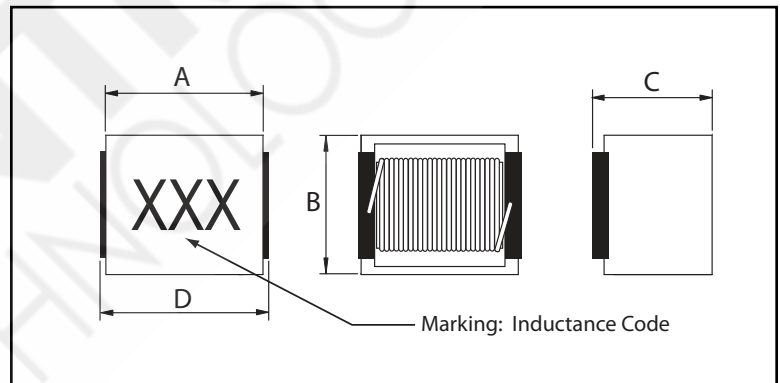
**Miscellaneous:** **RoHS Compliant.**

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

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

#### PHYSICAL DIMENSIONS

| Size   | A                 | B                | C                | D Max. |
|--------|-------------------|------------------|------------------|--------|
| mm     | 4.5 $\pm$ 0.4     | 3.2 $\pm$ 0.3    | 3.2 $\pm$ 0.3    | 5.1    |
| inches | 0.177 $\pm$ 0.016 | 0.12 $\pm$ 0.012 | 0.12 $\pm$ 0.012 | 0.20   |



#### PAD LAYOUT

