

# 1. Part Description

## 1.1 Part Numbering (Example)

( Ex. )

**0805** **C** **T -** **120** **E** **J** **T** **S**

**SIZE .**

0402 1.0 \* 0.5 mm  
0603 1.6 \* 0.8 mm  
0805 2.0 \* 1.2 mm  
1008 2.5 \* 2.0 mm  
1206 3.2 \* 1.6 mm  
1210 3.2 \* 2.5 mm

**SHAPE.**

C : C SHAPE  
H : H SHAPE  
M : MOLDING

**PROFILE .**

S: STANDARD  
T: LOW PROFILE  
Q:HIGH Q

**INDUCTANCE .**

1ST , 2ND , 3RD MULTIPLIER

**PACK .**

S=EIA RS481 CLEAR TAPE & REEL

**TERMINALTYPE/MATERIAL.**

A/T = Terminal  
F = Ferrite Core (Substrate)

**INDUCTANCE TOLERANCE .**

G =  $\pm 2\%$  , H =  $\pm 3\%$  , J =  $\pm 5\%$  , K =  $\pm 10\%$   
B= $\pm 0.1n H$  , C= $\pm 0.2n H$  , D= $\pm 0.5 n H$

**SHAPE .**

E = FLAT TOP

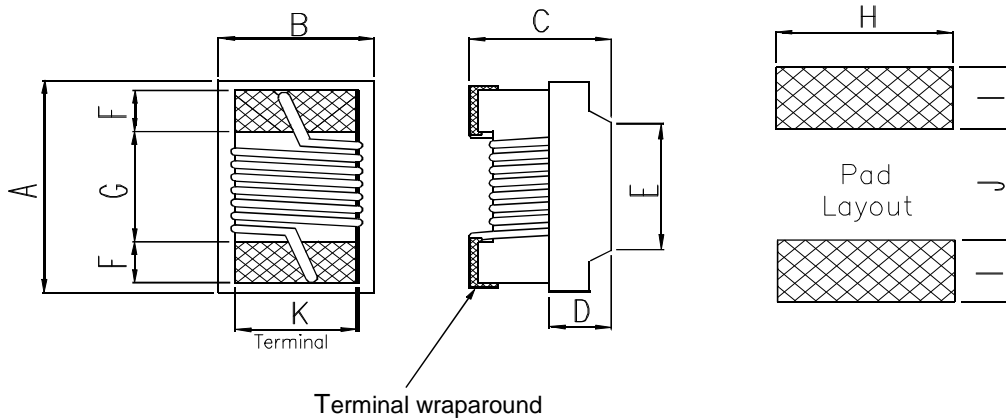
# DELTA WIRE-WOUND CHIP INDUCTOR-CERAMIC/Low Profile

## 0805CT (2012) Series (1.8 ~ 1000nH)

| Part Number    | Inductance nH  | Percent Tolerance | Q Min        | SRF Min MHz | RDC Max Ohms | IDC Max mA |
|----------------|----------------|-------------------|--------------|-------------|--------------|------------|
| 0805CT-1N8E_TS | 1.8 @ 250MHz   | 10                | 55 @ 1500MHz | 9400        | 0.03         | 800        |
| 0805CT-3N9E_TS | 3.9 @ 250MHz   | 10,5              | 60 @ 1000MHz | 6100        | 0.06         | 800        |
| 0805CT-4N7E_TS | 4.7 @ 250MHz   | 10,5              | 50 @ 1000MHz | 5500        | 0.06         | 800        |
| 0805CT-6N8E_TS | 6.8 @ 250MHz   | 10,5              | 50 @ 1000MHz | 5500        | 0.08         | 800        |
| 0805CT-8N2E_TS | 8.2 @ 250MHz   | 10,5              | 50 @ 1000MHz | 4800        | 0.08         | 800        |
| 0805CT-100E_TS | 10.0 @ 250MHz  | 10,5,2            | 55 @ 750MHz  | 3300        | 0.08         | 800        |
| 0805CT-120E_TS | 12.0 @ 250MHz  | 10,5,2            | 55 @ 750MHz  | 3800        | 0.10         | 800        |
| 0805CT-150E_TS | 15.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 2950        | 0.10         | 800        |
| 0805CT-180E_TS | 18.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 3100        | 0.13         | 800        |
| 0805CT-220E_TS | 22.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 2900        | 0.15         | 800        |
| 0805CT-270E_TS | 27.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 2450        | 0.23         | 600        |
| 0805CT-330E_TS | 33.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 2350        | 0.28         | 600        |
| 0805CT-390E_TS | 39.0 @ 250MHz  | 10,5,2            | 50 @ 500MHz  | 2200        | 0.33         | 600        |
| 0805CT-470E_TS | 47.0 @ 200MHz  | 10,5,2            | 50 @ 500MHz  | 2000        | 0.39         | 600        |
| 0805CT-560E_TS | 56.0 @ 200MHz  | 10,5,2            | 50 @ 500MHz  | 1850        | 0.39         | 500        |
| 0805CT-680E_TS | 68.0 @ 200MHz  | 10,5,2            | 50 @ 500MHz  | 1500        | 0.40         | 500        |
| 0805CT-820E_TS | 82.0 @ 150MHz  | 10,5,2            | 50 @ 500MHz  | 1500        | 0.44         | 500        |
| 0805CT-101E_TS | 100.0 @ 150MHz | 10,5,2            | 50 @ 500MHz  | 1200        | 0.64         | 400        |
| 0805CT-121E_TS | 120.0 @ 150MHz | 10,5,2            | 40 @ 250MHz  | 1150        | 0.68         | 300        |
| 0805CT-151E_TS | 150.0 @ 150MHz | 10,5,2            | 40 @ 250MHz  | 1050        | 0.80         | 300        |
| 0805CT-102E_TS | 1000.0 @ 25MHz | 10,5,2            | 16 @ 50MHz   | 80          | 3.50         | 170        |

Working Temperature Range : -40 °C ~ 125 °C

### Shape & Dimension



|      | A    |       | B     |       | C     |       | D Ref. | E     | F     | G    | H     | I     | J    | K     |
|------|------|-------|-------|-------|-------|-------|--------|-------|-------|------|-------|-------|------|-------|
|      | Max. | Ref   | Max   | Ref   | Max   | Ref   |        |       |       |      |       |       |      |       |
| inch | 0.09 | 0.083 | 0.068 | 0.065 | 0.041 | 0.037 | 0.02   | 0.050 | 0.018 | 0.04 | 0.070 | 0.040 | 0.09 | 0.083 |
| mm   | 2.29 | 2.10  | 1.73  | 1.65  | 1.03  | 0.93  | 0.51   | 1.27  | 0.44  | 1.02 | 1.78  | 1.02  | 2.29 | 2.10  |

Parts/Reel: 7" 2,000PCS

Tape Width: 8mm



# WIRE-WOUND CHIP INDUCTOR – CERAMIC / Low Profile

## 0805CT Series Typical Electrical Characteristics

