

1. Part Description

1.1 Part Numbering (Example)

(Ex.)

0805 C Q - 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

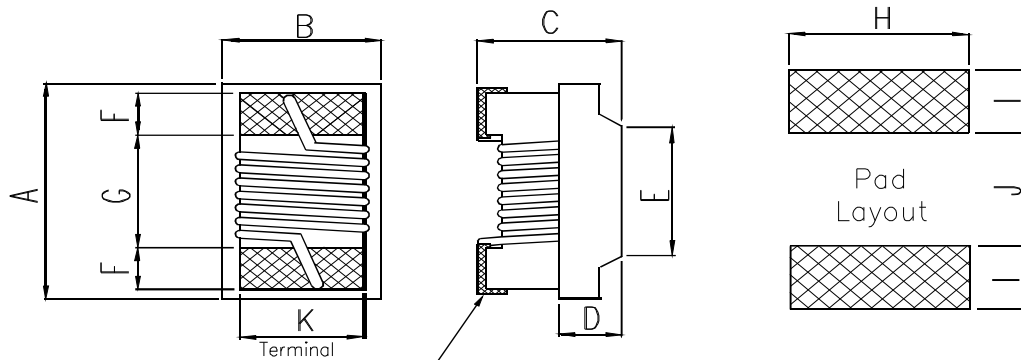
WIRE-WOUND CHIP INDUCTOR – CERAMIC / High Q

0805CQ (2012) Series (2.5 ~ 51nH)

| Part Number | Inductance nH | Percent Tolerance | Q Min | SRF Min MHz | RDC Max Ohms | IDC Max mA |
|----------------|---------------|-------------------|--------------|-------------|--------------|------------|
| 0805CQ-2N5E_TS | 2.5 @ 250MHz | 10,5 | 80 @ 1500MHz | 6000 | 0.020 | 1600 |
| 0805CQ-5N6E_TS | 5.6 @ 250MHz | 10,5 | 98 @ 1500MHz | 6000 | 0.035 | 1600 |
| 0805CQ-6N2E_TS | 6.2 @ 250MHz | 10,5 | 88 @ 1000MHz | 4750 | 0.035 | 1600 |
| 0805CQ-6N8E_TS | 6.8 @ 250MHz | 10,5 | 80 @ 1000MHz | 4400 | 0.035 | 1600 |
| 0805CQ-8N2E_TS | 8.2 @ 250MHz | 10,5 | 75 @ 1000MHz | 3000 | 0.075 | 1000 |
| 0805CQ-100E_TS | 10 @ 250MHz | 10,5 | 80 @ 1000MHz | 3000 | 0.060 | 1600 |
| 0805CQ-120E_TS | 12 @ 250MHz | 10,5 | 80 @ 1000MHz | 3000 | 0.045 | 1600 |
| 0805CQ-150E_TS | 15 @ 250MHz | 10,5,2 | 80 @ 1000MHz | 2800 | 0.100 | 1200 |
| 0805CQ-160E_TS | 16 @ 250MHz | 10,5,2 | 72 @ 500MHz | 2950 | 0.060 | 1500 |
| 0805CQ-180E_TS | 18 @ 250MHz | 10,5,2 | 75 @ 500MHz | 2550 | 0.060 | 1400 |
| 0805CQ-200E_TS | 20 @ 250MHz | 10,5,2 | 70 @ 500MHz | 2050 | 0.055 | 1400 |
| 0805CQ-220E_TS | 22 @ 250MHz | 10,5,2 | 80 @ 500MHz | 2000 | 0.100 | 1200 |
| 0805CQ-270E_TS | 27 @ 250MHz | 10,5,2 | 75 @ 500MHz | 2000 | 0.070 | 1300 |
| 0805CQ-300E_TS | 30 @ 250MHz | 10,5,2 | 65 @ 500MHz | 1950 | 0.095 | 1200 |
| 0805CQ-390E_TS | 39 @ 250MHz | 10,5,2 | 65 @ 500MHz | 1600 | 0.110 | 1100 |
| 0805CQ-480E_TS | 48 @ 200MHz | 10,5,2 | 65 @ 500MHz | 1400 | 0.095 | 1200 |
| 0805CQ-510E_TS | 51 @ 200MHz | 10,5,2 | 65 @ 500MHz | 1400 | 0.120 | 1000 |

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

Shape & Dimension



Terminal wraparound

| | A | | B | | C | | D Ref. | E Ref. | F | G | H | I | J | K |
|------|------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| | Max. | Ref | Max | Ref | Max | Ref | | | | | | | | |
| inch | 0.09 | 0.083 | 0.068 | 0.065 | 0.060 | 0.055 | 0.02 | 0.050 | 0.018 | 0.040 | 0.070 | 0.040 | 0.030 | 0.050 |
| mm | 2.29 | 2.10 | 1.73 | 1.65 | 1.52 | 1.40 | 0.51 | 1.27 | 0.44 | 1.02 | 1.78 | 1.02 | 0.76 | 1.27 |

Parts/Reel: 7" 2,000PCS

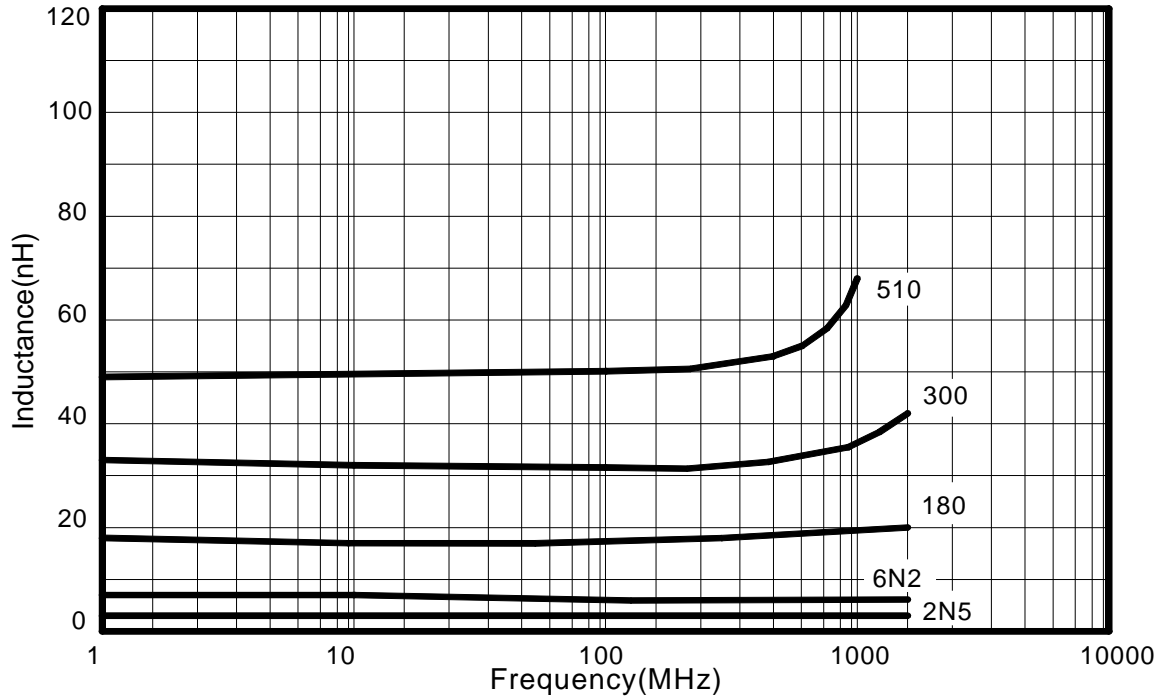
Tape Width: 8mm



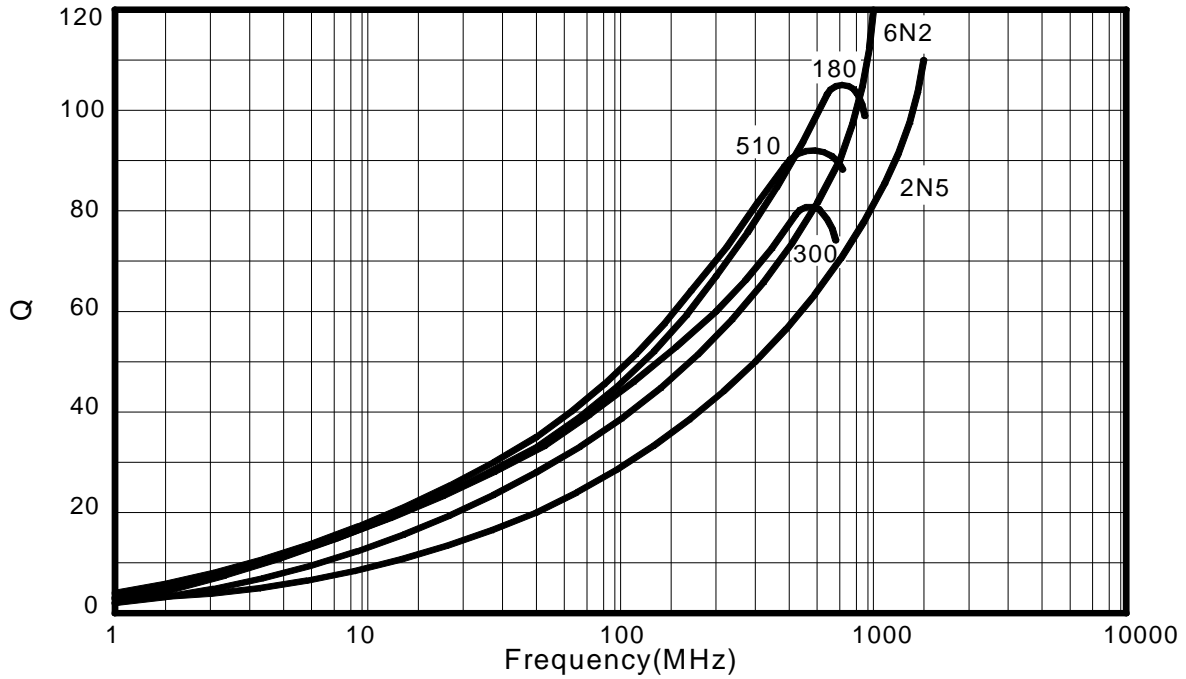
WIRE-WOUND CHIP INDUCTOR – CERAMIC / High Q

0805CQ Series Typical Electrical Characteristics

TYPICAL L vs FREQUENCY



TYPICAL Q vs FREQUENCY



Find price and stock options from leading distributors for 0805CQ-100EJTS on Findchips.com:

<https://findchips.com/search/0805CQ-100EJTS>

Find CAD models and details for this part:

<https://findchips.com/detail/0805cq-100ejts/Delta-Electronics-Inc>