



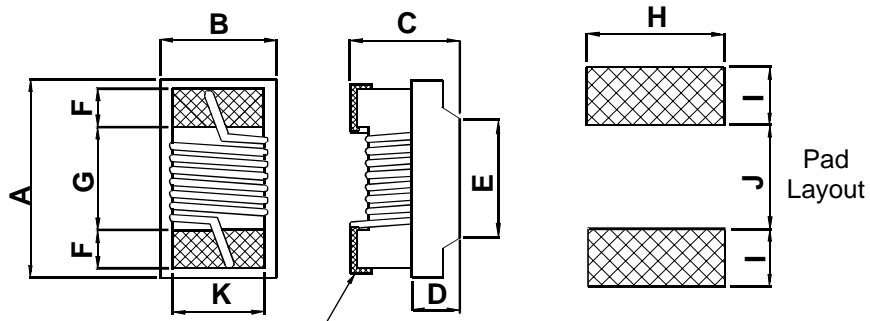
**WIRE-WOUND CHIP INDUCTOR – CERAMIC/OPEN TYPE**  
**1008CS (2520) Series (5.6 nH~15000 nH)**

| Part Number     | Inductance nH   | Percent Tolerance | Q Min        | SRF Min MHz | R <sub>DC</sub> Max Ohms | I <sub>DC</sub> Max mA | Color Code |
|-----------------|-----------------|-------------------|--------------|-------------|--------------------------|------------------------|------------|
| *1008CS-5N6E_TS | 5.6 @ 50MHz     | 10,5              | 50 @ 1500MHz | 4000        | 0.15                     | 1000                   | Black      |
| *1008CS-100E_TS | 10.0 @ 50MHz    | 10,5,2            | 50 @ 500MHz  | 4100        | 0.08                     | 1000                   | Brown      |
| *1008CS-120E_TS | 12.0 @ 50MHz    | 10,5,2            | 50 @ 500MHz  | 3300        | 0.09                     | 1000                   | Red        |
| *1008CS-150E_TS | 15.0 @ 50MHz    | 10,5,2            | 50 @ 500MHz  | 2500        | 0.11                     | 1000                   | Orange     |
| *1008CS-180E_TS | 18.0 @ 50MHz    | 10,5,2            | 50 @ 350MHz  | 2400        | 0.12                     | 1000                   | Yellow     |
| *1008CS-220E_TS | 22.0 @ 50MHz    | 10,5,2            | 55 @ 350MHz  | 2400        | 0.12                     | 1000                   | Green      |
| 1008CS-240E_TS  | 24.0 @ 50MHz    | 10,5,2            | 55 @ 350MHz  | 1900        | 0.12                     | 1000                   | Blue       |
| *1008CS-270E_TS | 27.0 @ 50MHz    | 10,5,2            | 55 @ 350MHz  | 1600        | 0.13                     | 1000                   | Violet     |
| *1008CS-330E_TS | 33.0 @ 50MHz    | 10,5,2            | 60 @ 350MHz  | 1600        | 0.14                     | 1000                   | Gray       |
| 1008CS-360E_TS  | 36.0 @ 50MHz    | 10,5,2            | 60 @ 350MHz  | 1600        | 0.15                     | 1000                   | Orange     |
| *1008CS-390E_TS | 39.0 @ 50MHz    | 10,5,2            | 60 @ 350MHz  | 1500        | 0.15                     | 1000                   | White      |
| *1008CS-470E_TS | 47.0 @ 50MHz    | 10,5,2            | 65 @ 350MHz  | 1500        | 0.16                     | 1000                   | Black      |
| *1008CS-560E_TS | 56.0 @ 50MHz    | 10,5,2            | 65 @ 350MHz  | 1300        | 0.18                     | 1000                   | Brown      |
| *1008CS-620E_TS | 62.0 @ 50MHz    | 10,5,2            | 65 @ 350MHz  | 1250        | 0.20                     | 1000                   | Blue       |
| *1008CS-680E_TS | 68.0 @ 50MHz    | 10,5,2            | 65 @ 350MHz  | 1300        | 0.20                     | 1000                   | Red        |
| 1008CS-750E_TS  | 75.0 @ 50MHz    | 10,5,2            | 60 @ 350MHz  | 1100        | 0.21                     | 1000                   | White      |
| *1008CS-820E_TS | 82.0 @ 50MHz    | 10,5,2            | 60 @ 350MHz  | 1000        | 0.22                     | 1000                   | Orange     |
| *1008CS-101E_TS | 100.0 @ 25MHz   | 10,5,2            | 60 @ 350MHz  | 1000        | 0.56                     | 650                    | Yellow     |
| *1008CS-121E_TS | 120.0 @ 25MHz   | 10,5,2            | 60 @ 350MHz  | 950         | 0.63                     | 650                    | Green      |
| *1008CS-151E_TS | 150.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 850         | 0.70                     | 800                    | Blue       |
| *1008CS-181E_TS | 180.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 750         | 0.77                     | 620                    | Violet     |
| *1008CS-221E_TS | 220.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 700         | 0.84                     | 500                    | Gray       |
| *1008CS-241E_TS | 240.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 650         | 0.88                     | 500                    | White      |
| *1008CS-271E_TS | 270.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 600         | 0.91                     | 690                    | Black      |
| *1008CS-301E_TS | 300.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 585         | 1.00                     | 450                    | Brown      |
| *1008CS-331E_TS | 330.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 570         | 1.05                     | 450                    | Red        |
| *1008CS-361E_TS | 360.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 530         | 1.10                     | 470                    | Orange     |
| *1008CS-391E_TS | 390.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 500         | 1.12                     | 630                    | Yellow     |
| *1008CS-431E_TS | 430.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 480         | 1.15                     | 470                    | Green      |
| *1008CS-471E_TS | 470.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 450         | 1.19                     | 470                    | Blue       |
| *1008CS-561E_TS | 560.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 415         | 1.33                     | 580                    | Violet     |
| *1008CS-621E_TS | 620.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 375         | 1.40                     | 300                    | Gray       |
| *1008CS-681E_TS | 680.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 375         | 1.47                     | 540                    | White      |
| *1008CS-751E_TS | 750.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 360         | 1.54                     | 360                    | Black      |
| *1008CS-821E_TS | 820.0 @ 25MHz   | 10,5,2            | 45 @ 100MHz  | 350         | 1.61                     | 400                    | Brown      |
| *1008CS-911E_TS | 910.0 @ 25MHz   | 10,5,2            | 35 @ 50MHz   | 320         | 1.68                     | 380                    | Red        |
| *1008CS-102E_TS | 1000.0 @ 25MHz  | 10,5,2            | 35 @ 50MHz   | 290         | 1.75                     | 370                    | Orange     |
| *1008CS-122E_TS | 1200.0 @ 7.9MHz | 10,5,2            | 35 @ 50MHz   | 250         | 2.00                     | 310                    | Yellow     |
| *1008CS-152E_TS | 1500.0 @ 7.9MHz | 10,5,2            | 28 @ 50MHz   | 200         | 2.30                     | 330                    | Green      |
| *1008CS-182E_TS | 1800.0 @ 7.9MHz | 10,5,2            | 28 @ 50MHz   | 160         | 2.60                     | 300                    | Blue       |
| *1008CS-222E_TS | 2200.0 @ 7.9MHz | 10,5,2            | 28 @ 50MHz   | 160         | 2.80                     | 280                    | Violet     |
| *1008CS-272E_TS | 2700.0 @ 7.9MHz | 10,5,2            | 22 @ 25MHz   | 140         | 3.20                     | 290                    | Gray       |
| *1008CS-332E_TS | 3300.0 @ 7.9MHz | 10,5,2            | 22 @ 25MHz   | 110         | 3.40                     | 290                    | White      |
| *1008CS-392E_TS | 3900.0 @ 7.9MHz | 10,5,2            | 20 @ 25MHz   | 100         | 3.60                     | 260                    | Black      |
| *1008CS-472E_TS | 4700.0 @ 7.9MHz | 10,5,2            | 18 @ 25MHz   | 90          | 4.00                     | 260                    | Brown      |
| 1008CS-562E_TS  | 5600.0 @ 7.9MHz | 10,5,2            | 16 @ 7.96MHz | 20          | 4.00                     | 240                    | Red        |
| 1008CS-682E_TS  | 6800.0 @ 7.9MHz | 10,5,2            | 15 @ 7.96MHz | 40          | 4.90                     | 200                    | Orange     |
| 1008CS-822E_TS  | 8200.0 @ 7.9MHz | 10,5,2            | 15 @ 7.96MHz | 25          | 6.00                     | 170                    | Yellow     |
| 1008CS-103E_TS  | 10000 @ 2.52MHz | 10,5,2            | 15 @ 7.96MHz | 20          | 9.00                     | 150                    | Green      |
| 1008CS-123E_TS  | 12000 @ 2.52MHz | 10,5,2            | 15 @ 7.96MHz | 18          | 10.5                     | 130                    | Blue       |
| 1008CS-153E_TS  | 15000 @ 2.52MHz | 10,5,2            | 15 @ 7.96MHz | 15          | 11.5                     | 120                    | Violet     |

Working Temperature : -40 °C ~ 125 °C

\* TEST METHODS /INSTRUMENT : NETWORK/SPECTRUM ANALYZER.

# Shape & Dimension



Terminal wraparound:  
Approx. 0.018/0.45 both ends

|      | A     |       | B     |       | C     |       | D<br>Ref. | E<br>Ref. | F     | G     | H     | I     | J     | K     |
|------|-------|-------|-------|-------|-------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|
|      | Max.  | Ref.  | Max.  | Ref.  | Max.  | Ref.  |           |           |       |       |       |       |       |       |
| Inch | 0.115 | 0.103 | 0.110 | 0.095 | 0.080 | 0.072 | 0.025     | 0.065     | 0.020 | 0.060 | 0.100 | 0.040 | 0.050 | 0.080 |
| mm   | 2.92  | 2.60  | 2.79  | 2.40  | 2.03  | 1.82  | 0.65      | 1.65      | 0.51  | 1.52  | 2.54  | 1.02  | 1.27  | 2.03  |

Parts/Reel: 7" 2,000 PCS

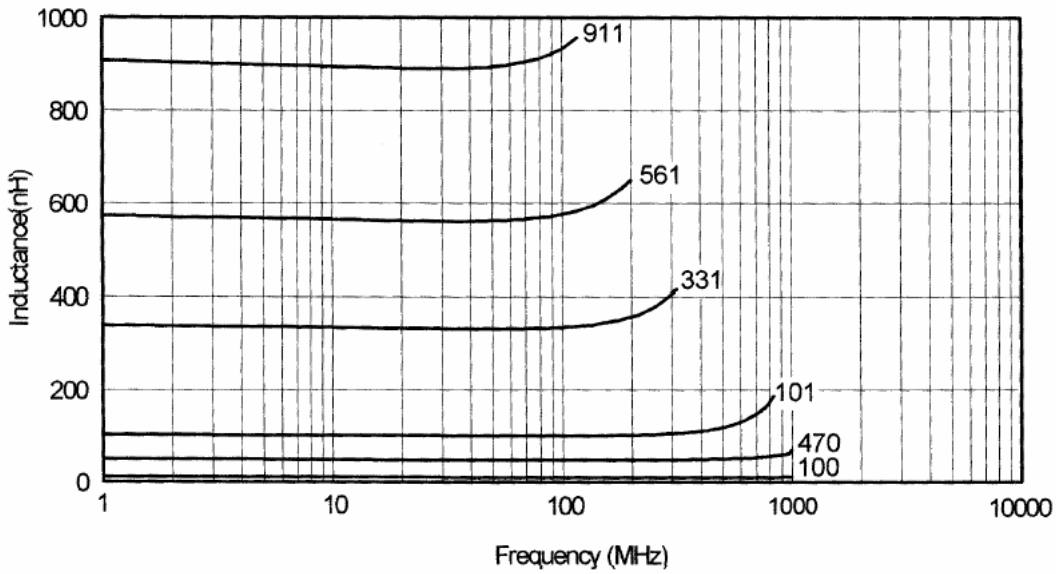
Tape Width: 8mm

## Q vs F & L vs F Curve

### WIRE-WOUND CHIP INDUCTOR

#### 1008CS Series (2520)

##### TYPICAL L vs FREQUENCY



##### TYPICAL Q vs FREQUENCY

