



WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0603 (1608)

0603CS Series (1.5 ~ 470nH)

| Part Number | Inductance nH | Percent Tolerance | Q Min | SRF Min MHz | RDC Max Ohms | IDC Max mA | 900MHz | | 1.7GHz | |
|----------------|---------------|-------------------|-------|-------------|--------------|------------|--------|-------|--------|-------|
| | | | | | | | L Typ | Q Typ | L Typ | Q Typ |
| 0603CS-1N5E_TS | 1.5 @ 250MHz | 10,5 | 24 | 12500 | 0.030 | 700 | - | - | - | - |
| 0603CS-1N6E_TS | 1.6 @ 250MHz | 10,5 | 24 | 12500 | 0.030 | 700 | 1.53 | 35 | 1.58 | 55 |
| 0603CS-1N8E_TS | 1.8 @ 250MHz | 10,5 | 16 | 12500 | 0.045 | 700 | 1.63 | 35 | 1.66 | 50 |
| 0603CS-2N2E_TS | 2.2 @ 250MHz | 10,5 | 15 | 6000 | 0.100 | 700 | 2.18 | 41 | 2.20 | 64 |
| 0603CS-2N3E_TS | 2.3 @ 250MHz | 10,5 | 16 | >4000 | 0.140 | 700 | 2.32 | 32 | 2.35 | 40 |
| 0603CS-2N4E_TS | 2.4 @ 250MHz | 10,5 | 15 | >4000 | 0.140 | 700 | - | - | - | - |
| 0603CS-3N3E_TS | 3.3 @ 250MHz | 10,5,2 | 22 | >6000 | 0.080 | 700 | 3.35 | 47 | 3.40 | 65 |
| 0603CS-3N6E_TS | 3.6 @ 250MHz | 10,5,2 | 22 | 5800 | 0.063 | 700 | 3.53 | 49 | 3.58 | 65 |
| 0603CS-3N9E_TS | 3.9 @ 250MHz | 10,5,2 | 22 | >6000 | 0.080 | 700 | 3.95 | 49 | 3.96 | 67 |
| 0603CS-4N3E_TS | 4.3 @ 250MHz | 10,5,2 | 22 | 5800 | 0.063 | 700 | 4.32 | 49 | 4.43 | 67 |
| 0603CS-4N5E_TS | 4.5 @ 250MHz | 10,5,2 | 20 | 5800 | 0.120 | 700 | 4.74 | 55 | 4.87 | 92 |
| 0603CS-4N7E_TS | 4.7 @ 250MHz | 10,5,2 | 25 | 5800 | 0.120 | 700 | 4.65 | 53 | 4.80 | 67 |
| 0603CS-5N1E_TS | 5.1 @ 250MHz | 10,5,2 | 20 | 5800 | 0.160 | 700 | 5.13 | 47 | 5.36 | 56 |
| 0603CS-5N6E_TS | 5.6 @ 250MHz | 10,5,2 | 20 | 5800 | 0.170 | 700 | 5.53 | 56 | 5.86 | 77 |
| 0603CS-6N2E_TS | 6.2 @ 250MHz | 10,5,2 | 25 | 5800 | 0.110 | 700 | 6.28 | 60 | 6.40 | 85 |
| 0603CS-6N3E_TS | 6.3 @ 250MHz | 10,5,2 | 25 | 5800 | 0.110 | 700 | 6.67 | 41 | 6.86 | 61 |
| 0603CS-6N8E_TS | 6.8 @ 250MHz | 10,5,2 | 27 | 5800 | 0.110 | 700 | 6.75 | 60 | 7.10 | 81 |
| 0603CS-7N5E_TS | 7.5 @ 250MHz | 10,5,2 | 28 | 4800 | 0.106 | 700 | 7.70 | 60 | 7.82 | 65 |
| 0603CS-8N2E_TS | 8.2 @ 250MHz | 10,5,2 | 38 | 4800 | 0.110 | 700 | 8.25 | 64 | 8.40 | 81 |
| 0603CS-8N7E_TS | 8.7 @ 250MHz | 10,5,2 | 28 | 4800 | 0.109 | 700 | 8.86 | 62 | 9.32 | 58 |
| 0603CS-9N1E_TS | 9.1 @ 250MHz | 10,5,2 | 35 | 4800 | 0.13 | 700 | 9.20 | 70 | 9.70 | 80 |
| 0603CS-9N5E_TS | 9.5 @ 250MHz | 10,5,2 | 28 | 5400 | 0.135 | 700 | 9.70 | 59 | 9.92 | 61 |
| 0603CS-100E_TS | 10.0 @ 250MHz | 10,5,2 | 31 | 4800 | 0.130 | 700 | 10.0 | 66 | 10.6 | 83 |
| 0603CS-110E_TS | 11.0 @ 250MHz | 10,5,2 | 31 | 4000 | 0.086 | 700 | 11.3 | 53 | 12.1 | 56 |
| 0603CS-120E_TS | 12.0 @ 250MHz | 10,5,2 | 35 | 4000 | 0.130 | 700 | 12.3 | 72 | 13.5 | 83 |
| 0603CS-150E_TS | 15.0 @ 250MHz | 10,5,2 | 35 | 4000 | 0.170 | 700 | 15.4 | 64 | 16.8 | 89 |
| 0603CS-160E_TS | 16.0 @ 250MHz | 10,5,2 | 35 | 3300 | 0.110 | 700 | 16.5 | 55 | 18.0 | 52 |
| 0603CS-170E_TS | 17.0 @ 250MHz | 10,5,2 | 35 | 3200 | 0.170 | 700 | 17.6 | 56 | 19.4 | 44 |
| 0603CS-180E_TS | 18.0 @ 250MHz | 10,5,2 | 35 | 3100 | 0.170 | 700 | 18.7 | 70 | 21.4 | 69 |
| 0603CS-200E_TS | 20.0 @ 250MHz | 10,5,2 | 40 | 3000 | 0.190 | 700 | 20.7 | 80 | 23.5 | 30 |
| 0603CS-220E_TS | 22.0 @ 250MHz | 10,5,2 | 38 | 3000 | 0.190 | 700 | 22.8 | 73 | 26.1 | 71 |
| 0603CS-230E_TS | 23.0 @ 250MHz | 10,5,2 | 38 | 2850 | 0.190 | 700 | 24.1 | 71 | 28.0 | 71 |
| 0603CS-240E_TS | 24.0 @ 250MHz | 10,5,2 | 38 | 2800 | 0.130 | 700 | 25.7 | 45 | 30.9 | 40 |
| 0603CS-270E_TS | 27.0 @ 250MHz | 10,5,2 | 40 | 2800 | 0.220 | 600 | 29.2 | 74 | 34.6 | 65 |
| 0603CS-300E_TS | 30.0 @ 250MHz | 10,5,2 | 40 | 2800 | 0.150 | 600 | 31.4 | 47 | 39.8 | 28 |
| 0603CS-330E_TS | 33.0 @ 250MHz | 10,5,2 | 40 | 2300 | 0.220 | 600 | 36.0 | 67 | 49.5 | 42 |
| 0603CS-360E_TS | 36.0 @ 250MHz | 10,5,2 | 40 | 2300 | 0.250 | 600 | 39.1 | 47 | 48.9 | 24 |
| 0603CS-390E_TS | 39.0 @ 250MHz | 10,5,2 | 40 | 2200 | 0.250 | 600 | 42.7 | 60 | 60.2 | 40 |
| 0603CS-430E_TS | 43.0 @ 200MHz | 10,5,2 | 38 | 2000 | 0.280 | 600 | 46.9 | 44 | 60.3 | 21 |
| 0603CS-470E_TS | 47.0 @ 200MHz | 10,5,2 | 38 | 2000 | 0.280 | 600 | 52.2 | 62 | 77.2 | 35 |
| 0603CS-510E_TS | 51.0 @ 200MHz | 10,5,2 | 38 | 1900 | 0.280 | 600 | 55.5 | 69 | 82.2 | 34 |
| 0603CS-560E_TS | 56.0 @ 200MHz | 10,5,2 | 38 | 1900 | 0.310 | 600 | 62.5 | 56 | 97.0 | 26 |
| 0603CS-620E_TS | 62.0 @ 200MHz | 10,5,2 | 37 | 1800 | 0.340 | 600 | 68.0 | 40 | 110.0 | 10 |
| 0603CS-680E_TS | 68.0 @ 200MHz | 10,5,2 | 37 | 1700 | 0.340 | 600 | 80.5 | 54 | 168.0 | 21 |
| 0603CS-720E_TS | 72.0 @ 150MHz | 10,5,2 | 34 | 1700 | 0.490 | 600 | 82.0 | 53 | 135.0 | 20 |
| 0603CS-750E_TS | 75.0 @ 150MHz | 10,5,2 | 30 | 1700 | 0.500 | 500 | - | - | - | - |
| 0603CS-820E_TS | 82.0 @ 150MHz | 10,5,2 | 34 | 1700 | 0.540 | 400 | 96.2 | 54 | 177.0 | 21 |
| 0603CS-910E_TS | 91.0 @ 150MHz | 10,5,2 | 30 | 1700 | 0.500 | 400 | 110.0 | 50 | 416.4 | 6 |
| 0603CS-101E_TS | 100 @ 150MHz | 10,5,2 | 34 | 1400 | 0.580 | 400 | 124 | 49 | 319.5 | 13 |
| 0603CS-111E_TS | 110 @ 150MHz | 10,5,2 | 32 | 1350 | 0.610 | 300 | 138 | 43 | 342.7 | 15 |
| 0603CS-121E_TS | 120 @ 150MHz | 10,5,2 | 32 | 1300 | 0.650 | 300 | 166 | 39 | 529.3 | 8 |
| 0603CS-131E_TS | 130 @ 150MHz | 10,5,2 | 30 | 1400 | 0.720 | 300 | 185 | 60 | - | - |
| 0603CS-141E_TS | 140 @ 100MHz | 10,5,2 | 28 | 1300 | 0.870 | 280 | 190 | 80 | - | - |
| 0603CS-151E_TS | 150 @ 100MHz | 10,5,2 | 28 | 1300 | 0.950 | 280 | 230 | 25 | - | - |
| 0603CS-161E_TS | 160 @ 100MHz | 10,5,2 | 25 | 1300 | 1.40 | 280 | 215 | 20 | - | - |
| 0603CS-181E_TS | 180 @ 100MHz | 10,5,2 | 25 | 1250 | 1.40 | 250 | 305 | 22 | - | - |



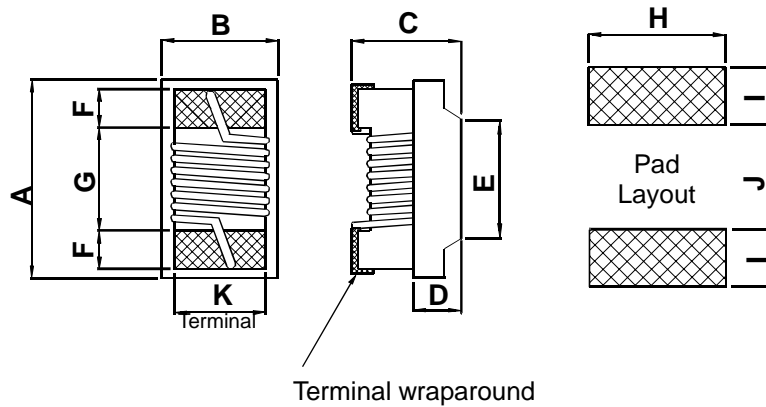
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0603CS Series (1.5 ~ 470nH)

| Part Number | Inductance nH | Percent Tolerance | Q Min | SRF Min MHz | RDC Max Ohms | IDC Max mA | 900MHz | | 1.7GHz | |
|----------------|---------------|-------------------|-------|-------------|--------------|------------|--------|-------|--------|-------|
| | | | | | | | L Typ | Q Typ | L Typ | Q Typ |
| 0603CS-221E_TS | 220 @ 100MHz | 10,5,2 | 25 | 1200 | 1.60 | 250 | 377 | 21 | - | - |
| 0603CS-241E_TS | 240 @ 100MHz | 10,5,2 | 25 | 1100 | 1.70 | 200 | - | - | - | - |
| 0603CS-261E_TS | 260 @ 100MHz | 10,5,2 | 25 | 1000 | 2.000 | 200 | 469 | 21 | - | - |
| 0603CS-271E_TS | 270 @ 100MHz | 10,5,2 | 25 | 900 | 2.100 | 200 | 523 | 19 | - | - |
| 0603CS-281E_TS | 280 @ 100MHz | 10,5,2 | 25 | 1000 | 2.40 | 150 | 524 | 18 | - | - |
| 0603CS-301E_TS | 300 @ 100MHz | 10,5,2 | 25 | 750 | 2.50 | 150 | 539.7 | 21 | - | - |
| 0603CS-331E_TS | 330 @ 100MHz | 10,5,2 | 25 | 900 | 3.80 | 100 | 680.4 | 20 | - | - |
| 0603CS-391E_TS | 390 @ 100MHz | 10,5,2 | 25 | 900 | 4.35 | 100 | 734.5 | 29 | - | - |
| 0603CS-471E_TS | 470 @ 100MHz | 10,5,2 | 23 | 600 | 3.60 | 80 | - | - | - | - |

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

Shape & Dimension



| | A | | B | | C | | D Ref. | E Ref. | F | G | H | I | J | K |
|------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| | Max. | Ref | Max. | Ref | Max. | Ref | | | | | | | | |
| inch | 0.071 | 0.065 | 0.044 | 0.041 | 0.040 | 0.035 | 0.015 | 0.039 | 0.013 | 0.034 | 0.040 | 0.025 | 0.025 | 0.030 |
| mm | 1.80 | 1.65 | 1.12 | 1.03 | 1.02 | 0.90 | 0.38 | 1.00 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 | 0.76 |

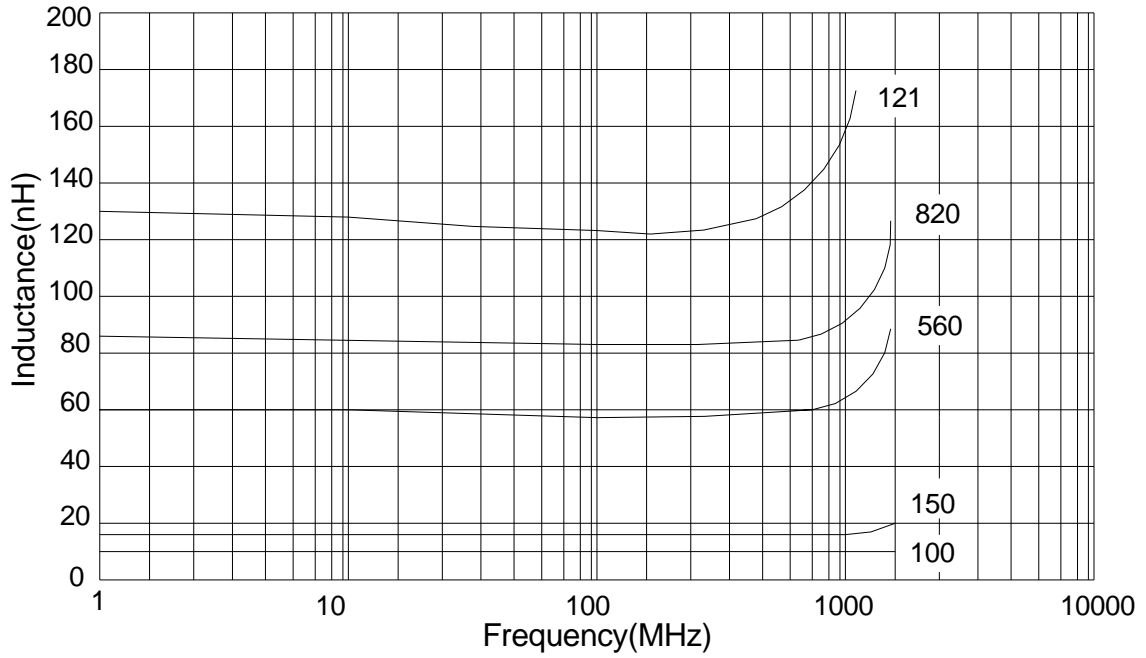
Parts/Reel: 7" 4,000 PCS

Tape Width: 8mm



WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0603 (1608)
0603CS Series Typical Electrical Characteristics

TYPICAL L vs FREQUENCY



TYPICAL Q vs FREQUENCY

