



WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0402 (1005)

0402HS Series Part Numbering

Part Numbering (Example)

(Ex.) 0402 H S - 150 E G 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

PROFILE.

S:STANDARD
T: LOW PROFILE
M:OPTIMUM DIMENSION

INDUCTANCE

- FIRST 2 DIGITS ARE SIGNIFICANT
- 3 DIGIT IS MULTIPLIER

PACK/ FEATURE

S =EIA RS481 CLEAR TAPE & REEL
/STANDARD TYPE.

TERMINAL TYPE/MATERIAL.

T = TERMINAL, CERAMIC CORE (SUBSTRATE)
F = FERRITE CORE (SUBSTRATE)

INDUCTANCE TOLERANCE

G=±2%, H=±3%, J=± 5%, K=±10%, M=±20%
B=±0.1nH, C=±0.2nH, D=±0.5nH

SHAPE

E = FLAT TOP



WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0402 (1005)

0402HS Series (1.0 ~ 120nH)

| Part Number | Inductance nH | Percent Tolerance | Q Min | SRF Min GHz | Rdc Max Ohms | Ibc Max mA | 900MHz | | 1.7GHz | |
|----------------|---------------|-------------------|-------|-------------|--------------|------------|--------|-------|--------|-------|
| | | | | | | | L Typ | Q Typ | L Typ | Q Typ |
| 0402HS-1N0E_TS | 1.0 @ 250MHz | 10 | 16 | 12.70 | 0.045 | 1360 | 1.02 | 56 | 1.03 | 83 |
| 0402HS-1N2E_TS | 1.2 @ 250MHz | 10,5 | 14 | 12.90 | 0.090 | 740 | 1.20 | 59 | 1.21 | 91 |
| 0402HS-1N8E_TS | 1.8 @ 250MHz | 10,5,B | 16 | 11.30 | 0.070 | 1040 | 1.78 | 59 | 1.81 | 87 |
| 0402HS-1N9E_TS | 1.9 @ 250MHz | 10,5 | 16 | 11.30 | 0.070 | 1040 | 1.72 | 68 | 1.74 | 82 |
| 0402HS-2N0E_TS | 2.0 @ 250MHz | 10,5 | 16 | 11.10 | 0.070 | 1040 | 1.93 | 54 | 1.93 | 75 |
| 0402HS-2N2E_TS | 2.2 @ 250MHz | 10,5,C | 19 | 10.80 | 0.070 | 960 | 2.19 | 59 | 2.23 | 100 |
| 0402HS-2N4E_TS | 2.4 @ 250MHz | 10,5 | 15 | 10.50 | 0.070 | 790 | 2.24 | 51 | 2.27 | 68 |
| 0402HS-2N7E_TS | 2.7 @ 250MHz | 10,5 | 16 | 10.40 | 0.120 | 640 | 2.23 | 42 | 2.25 | 61 |
| 0402HS-3N3E_TS | 3.3 @ 250MHz | 10,5 | 19 | 7.00 | 0.066 | 840 | 3.10 | 65 | 3.12 | 87 |
| 0402HS-3N6E_TS | 3.6 @ 250MHz | 10,5,2 | 19 | 6.80 | 0.066 | 840 | 3.56 | 45 | 3.62 | 71 |
| 0402HS-3N9E_TS | 3.9 @ 250MHz | 10,5,2 | 19 | 5.80 | 0.066 | 840 | 3.89 | 50 | 4.00 | 75 |
| 0402HS-4N3E_TS | 4.3 @ 250MHz | 10,5,2 | 18 | 6.00 | 0.091 | 700 | 4.19 | 47 | 4.30 | 71 |
| 0402HS-4N7E_TS | 4.7 @ 250MHz | 10,5,2 | 18 | 4.70 | 0.130 | 640 | 4.55 | 48 | 4.68 | 68 |
| 0402HS-5N1E_TS | 5.1 @ 250MHz | 10,5,2 | 20 | 4.80 | 0.083 | 800 | 5.15 | 56 | 5.25 | 82 |
| 0402HS-5N6E_TS | 5.6 @ 250MHz | 10,5,2 | 20 | 4.80 | 0.083 | 760 | 5.16 | 54 | 5.28 | 81 |
| 0402HS-6N2E_TS | 6.2 @ 250MHz | 10,5,2 | 20 | 4.80 | 0.083 | 760 | 6.16 | 52 | 6.37 | 76 |
| 0402HS-6N8E_TS | 6.8 @ 250MHz | 10,5,2 | 20 | 4.80 | 0.083 | 680 | 6.56 | 63 | 6.93 | 78 |
| 0402HS-7N5E_TS | 7.5 @ 250MHz | 10,5,2 | 22 | 4.80 | 0.104 | 680 | 7.91 | 60 | 8.22 | 88 |
| 0402HS-8N2E_TS | 8.2 @ 250MHz | 10,5,2 | 22 | 4.40 | 0.104 | 680 | 8.50 | 57 | 8.85 | 84 |
| 0402HS-8N7E_TS | 8.7 @ 250MHz | 10,5,2 | 18 | 4.10 | 0.200 | 480 | 8.78 | 54 | 9.21 | 73 |
| 0402HS-9N0E_TS | 9.0 @ 250MHz | 10,5,2 | 22 | 4.16 | 0.104 | 680 | 9.07 | 62 | 9.53 | 78 |
| 0402HS-9N5E_TS | 9.5 @ 250MHz | 10,5,2 | 18 | 4.00 | 0.200 | 480 | 9.42 | 54 | 9.98 | 69 |
| 0402HS-100E_TS | 10.0 @ 250MHz | 10,5,2 | 21 | 3.90 | 0.195 | 480 | 9.80 | 50 | 10.10 | 67 |
| 0402HS-110E_TS | 11.0 @ 250MHz | 10,5,2 | 24 | 3.68 | 0.120 | 640 | 10.70 | 52 | 11.20 | 78 |
| 0402HS-120E_TS | 12.0 @ 250MHz | 10,5,2 | 24 | 3.60 | 0.120 | 640 | 11.90 | 53 | 12.70 | 71 |
| 0402HS-130E_TS | 13.0 @ 250MHz | 10,5,2 | 24 | 3.45 | 0.210 | 440 | 13.40 | 51 | 14.60 | 57 |
| 0402HS-150E_TS | 15.0 @ 250MHz | 10,5,2 | 24 | 3.28 | 0.172 | 560 | 14.60 | 55 | 15.50 | 77 |
| 0402HS-160E_TS | 16.0 @ 250MHz | 10,5,2 | 24 | 3.10 | 0.220 | 560 | 16.60 | 46 | 18.80 | 47 |
| 0402HS-180E_TS | 18.0 @ 250MHz | 10,5,2 | 25 | 3.10 | 0.230 | 420 | 18.30 | 57 | 20.30 | 62 |
| 0402HS-190E_TS | 19.0 @ 250MHz | 10,5,2 | 24 | 3.04 | 0.202 | 480 | 19.10 | 50 | 21.10 | 67 |
| 0402HS-200E_TS | 20.0 @ 250MHz | 10,5,2 | 25 | 3.00 | 0.250 | 420 | 20.70 | 52 | 23.70 | 53 |
| 0402HS-220E_TS | 22.0 @ 250MHz | 10,5,2 | 25 | 2.80 | 0.300 | 400 | 23.20 | 53 | 26.80 | 53 |
| 0402HS-230E_TS | 23.0 @ 250MHz | 10,5,2 | 24 | 2.72 | 0.300 | 400 | 23.80 | 49 | 26.90 | 64 |
| 0402HS-240E_TS | 24.0 @ 250MHz | 10,5,2 | 25 | 2.70 | 0.300 | 400 | 25.10 | 51 | 29.50 | 50 |
| 0402HS-270E_TS | 27.0 @ 250MHz | 10,5,2 | 24 | 2.48 | 0.300 | 400 | 28.70 | 49 | 33.50 | 63 |
| 0402HS-300E_TS | 30.0 @ 250MHz | 10,5,2 | 25 | 2.35 | 0.350 | 400 | 31.10 | 46 | 38.50 | 39 |
| 0402HS-330E_TS | 33.0 @ 250MHz | 10,5,2 | 24 | 2.35 | 0.350 | 400 | 34.90 | 31 | 41.70 | 32 |
| 0402HS-360E_TS | 36.0 @ 250MHz | 10,5,2 | 24 | 2.32 | 0.440 | 320 | 39.50 | 44 | 48.40 | 53 |
| 0402HS-390E_TS | 39.0 @ 250MHz | 10,5,2 | 25 | 2.10 | 0.550 | 200 | 41.70 | 47 | 50.20 | 45 |
| 0402HS-400E_TS | 40.0 @ 250MHz | 10,5,2 | 24 | 2.24 | 0.500 | 320 | 39.00 | 44 | 47.40 | 33 |

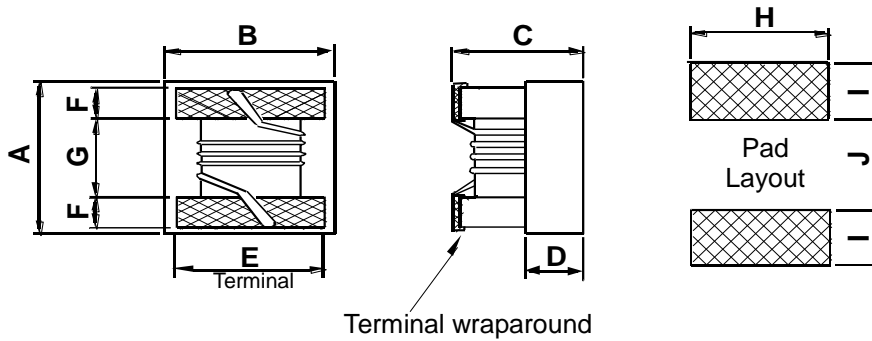
WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0402 (1005)

0402HS Series (1.0 ~ 120nH)

| Part Number | Inductance nH | Percent Tolerance | Q Min | SRF Min GHz | R _{dc} Max Ohms | I _{dc} Max mA | 900MHz | | 1.7GHz | |
|----------------|----------------|-------------------|-------|-------------|--------------------------|------------------------|--------|-------|--------|-------|
| | | | | | | | L Typ | Q Typ | L Typ | Q Typ |
| 0402HS-430E_TS | 43.0 @ 250MHz | 10,5,2 | 25 | 2.03 | 0.810 | 100 | 45.80 | 46 | 61.60 | 34 |
| 0402HS-470E_TS | 47.0 @ 250MHz | 10,5,2 | 25 | 2.10 | 0.830 | 150 | 50.00 | 38 | 55.80 | 37 |
| 0402HS-510E_TS | 51.0 @ 250MHz | 10,5,2 | 25 | 1.75 | 0.820 | 100 | 50.40 | 47 | 59.40 | 37 |
| 0402HS-560E_TS | 56.0 @ 250MHz | 10,5,2 | 25 | 1.76 | 0.970 | 100 | 57.40 | 49 | 72.40 | 40 |
| 0402HS-680E_TS | 68.0 @ 250MHz | 10,5,2 | 22 | 1.62 | 1.120 | 100 | 69.60 | 45 | 83.40 | 38 |
| 0402HS-720E_TS | 72.0 @ 250MHz | 10,5,2 | 22 | 1.30 | 1.120 | 100 | - | - | - | - |
| 0402HS-820E_TS | 82.0 @ 250MHz | 10,5,2 | 22 | 1.26 | 1.550 | 50 | - | - | - | - |
| 0402HS-101E_TS | 100.0 @ 250MHz | 10,5,2 | 22 | 1.16 | 2.000 | 30 | - | - | - | - |
| 0402HS-121E_TS | 120.0 @ 250MHz | 10,5,2 | 20 | 1.80 | 2.660 | 50 | - | - | - | - |

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

Shape & Dimension



| | A | | B | | C | | D Ref. | E | F | G | H | I | J |
|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| | Max. | Ref | Max. | Ref | Max. | Ref | | | | | | | |
| inch | 0.050 | 0.043 | 0.030 | 0.026 | 0.024 | 0.022 | 0.006 | 0.020 | 0.009 | 0.022 | 0.026 | 0.020 | 0.018 |
| mm | 1.27 | 1.10 | 0.76 | 0.66 | 0.61 | 0.56 | 0.15 | 0.51 | 0.23 | 0.56 | 0.66 | 0.50 | 0.46 |

Parts/Reel: 7" 4,000PCS

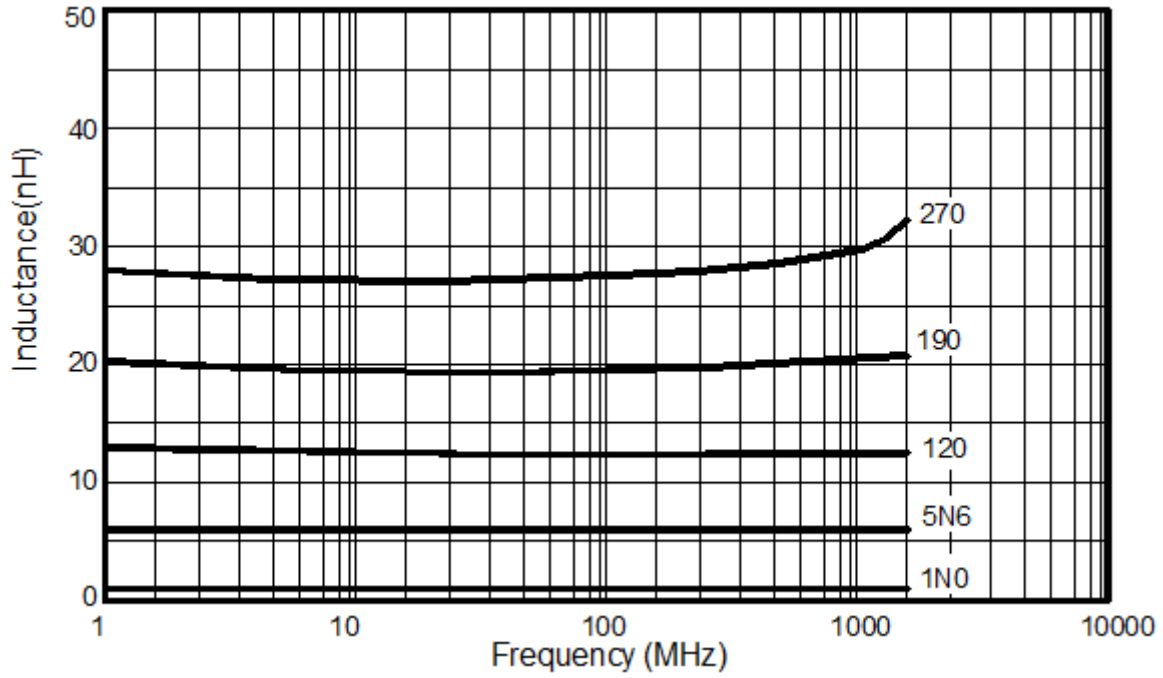
Tape Width: 8mm



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0402HS Series Typical Electrical Characteristics

TYPICAL L vs FREQUENCY



TYPICAL Q vs FREQUENCY

