

Type 3650 Series

Key Features

Ceramic base provides high SRF

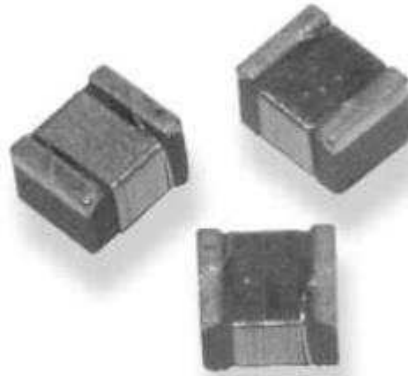
Ultra-compact inductors provide high Q factors

High Q and high current versions available

Suitable for fully automated assembly

Outstanding endurance from Pull-up force, mechanical shock and pressure

AEC-Q200 Qualified (Standard Type only)



TE Connectivity is proud to announce that the 3650 Series wire wound Low Inductance, High Frequency Chip Inductor (standard version) is now AEC-Q200 Qualified. The 3650 is available in four package sizes, includes High Current and High Q versions and is designed for automatic placement. Please note; These products are now supplied unmarked.

Characteristics – Electrical

Type 36501E Series – 0402 Package AEC-Q200

| Inductance | | Tolerance (± %) | L Freq. (MHz) | Quality Factor Min. | SRF (GHz) Min. | DCR (Ω) Max. | IDC (mA) Max. | 900MHz | | 1.7GHz | |
|------------|-----|-----------------|---------------|---------------------|----------------|--------------|---------------|--------|----|--------|-----|
| Code | NH | | | | | | | L | Q | L | Q |
| 1N0 | 1.0 | 10 | 250 | 16 | 12.70 | 0.045 | 1360 | 1.02 | 77 | 1.02 | 69 |
| 1N9 | 1.9 | 10 | 250 | 16 | 11.30 | 0.070 | 1040 | 1.72 | 68 | 1.74 | 82 |
| 2N0 | 2.0 | 10 | 250 | 16 | 11.10 | 0.070 | 1040 | 1.93 | 54 | 1.93 | 75 |
| 2N2 | 2.2 | 10 | 250 | 19 | 10.80 | 0.070 | 960 | 2.19 | 59 | 2.23 | 100 |
| 2N4 | 2.4 | 10 | 250 | 15 | 10.50 | 0.070 | 790 | 2.24 | 51 | 2.27 | 68 |
| 2N7 | 2.7 | 10 | 250 | 16 | 10.40 | 0.120 | 640 | 2.23 | 42 | 2.25 | 61 |
| 3N3 | 3.3 | 10 | 250 | 19 | 7.00 | 0.066 | 840 | 3.10 | 65 | 3.12 | 87 |
| 3N6 | 3.6 | 5, 10 | 250 | 19 | 6.80 | 0.066 | 840 | 3.56 | 45 | 3.62 | 71 |
| 3N9 | 3.9 | 5, 10 | 250 | 19 | 5.80 | 0.066 | 840 | 3.89 | 50 | 4.00 | 75 |
| 4N3 | 4.3 | 5, 10 | 250 | 18 | 6.00 | 0.091 | 700 | 4.19 | 47 | 4.30 | 71 |
| 4N7 | 4.7 | 5, 10 | 250 | 18 | 4.70 | 0.130 | 640 | 4.55 | 48 | 4.68 | 68 |
| 5N1 | 5.1 | 5, 10 | 250 | 20 | 4.80 | 0.083 | 800 | 5.15 | 56 | 5.25 | 82 |
| 5N6 | 5.6 | 5, 10 | 250 | 20 | 4.80 | 0.083 | 760 | 5.16 | 54 | 5.28 | 81 |
| 6N2 | 6.2 | 5, 10 | 250 | 20 | 4.80 | 0.083 | 760 | 6.16 | 52 | 6.37 | 76 |
| 6N8 | 6.8 | 5, 10 | 250 | 20 | 4.80 | 0.083 | 680 | 6.56 | 63 | 6.93 | 78 |
| 7N5 | 7.5 | 5, 10 | 250 | 22 | 4.80 | 0.104 | 680 | 7.91 | 60 | 8.22 | 88 |
| 8N2 | 8.2 | 5, 10 | 250 | 22 | 4.40 | 0.104 | 680 | 8.50 | 57 | 8.85 | 84 |
| 8N7 | 8.7 | 5, 10 | 250 | 18 | 4.10 | 0.200 | 480 | 8.78 | 54 | 9.21 | 73 |
| 9N0 | 9.0 | 5, 10 | 250 | 22 | 4.16 | 0.104 | 680 | 9.07 | 62 | 9.53 | 78 |
| 9N5 | 9.5 | 5, 10 | 250 | 18 | 4.00 | 0.200 | 480 | 9.42 | 54 | 9.98 | 69 |

Characteristics – Electrical

Type 36501E Series – 0402 Package (Continued)

| Inductance | | Tolerance (± %) | L Freq. (MHz) | Quality Factor Min. | SRF (GHz) Min | DCR (Ω) Max. | IDC (mA) Max. | 900MHz | | 1.7GHz | |
|------------|-----|--------------------|---------------------|---------------------------|---------------------|--------------------|---------------------|--------|----|--------|----|
| Code | nH | | | | | | | L | Q | L | Q |
| 10N | 10 | 2, 5, 10 | 250 | 21 | 3.90 | 0.195 | 480 | 9.80 | 50 | 10.10 | 67 |
| 11N | 11 | 2, 5, 10 | 250 | 24 | 3.68 | 0.120 | 640 | 10.70 | 52 | 11.20 | 78 |
| 12N | 12 | 2, 5, 10 | 250 | 24 | 3.60 | 0.120 | 640 | 11.90 | 53 | 12.70 | 71 |
| 13N | 13 | 2, 5, 10 | 250 | 24 | 3.45 | 0.210 | 440 | 13.40 | 51 | 14.60 | 57 |
| 15N | 15 | 2, 5, 10 | 250 | 24 | 3.28 | 0.172 | 560 | 14.60 | 55 | 15.50 | 77 |
| 16N | 16 | 2, 5, 10 | 250 | 24 | 3.10 | 0.220 | 560 | 16.60 | 46 | 18.80 | 47 |
| 18N | 18 | 2, 5, 10 | 250 | 25 | 3.10 | 0.230 | 420 | 18.30 | 57 | 20.30 | 62 |
| 19N | 19 | 2, 5, 10 | 250 | 24 | 3.04 | 0.202 | 480 | 19.10 | 50 | 21.10 | 67 |
| 20N | 20 | 2, 5, 10 | 250 | 25 | 3.00 | 0.250 | 420 | 20.70 | 52 | 23.70 | 53 |
| 22N | 22 | 2, 5, 10 | 250 | 25 | 2.80 | 0.300 | 400 | 23.20 | 53 | 26.80 | 53 |
| 23N | 23 | 2, 5, 10 | 250 | 24 | 2.72 | 0.300 | 400 | 23.80 | 49 | 26.90 | 64 |
| 24N | 24 | 2, 5, 10 | 250 | 25 | 2.70 | 0.300 | 400 | 25.10 | 51 | 29.50 | 50 |
| 27N | 27 | 2, 5, 10 | 250 | 24 | 2.48 | 0.300 | 400 | 28.70 | 49 | 33.50 | 63 |
| 30N | 30 | 2, 5, 10 | 250 | 25 | 2.35 | 0.350 | 400 | 31.10 | 46 | 38.50 | 39 |
| 33N | 33 | 2, 5, 10 | 250 | 24 | 2.35 | 0.350 | 400 | 34.90 | 31 | 41.70 | 32 |
| 36N | 36 | 2, 5, 10 | 250 | 24 | 2.32 | 0.440 | 320 | 39.50 | 44 | 48.40 | 53 |
| 39N | 39 | 2, 5, 10 | 250 | 25 | 2.10 | 0.550 | 200 | 41.70 | 47 | 50.20 | 45 |
| 40N | 40 | 2, 5, 10 | 250 | 24 | 2.24 | 0.500 | 320 | 39.00 | 44 | 47.40 | 33 |
| 43N | 43 | 2, 5, 10 | 250 | 25 | 2.03 | 0.810 | 100 | 45.80 | 49 | 61.60 | 34 |
| 47N | 47 | 2, 5, 10 | 250 | 25 | 2.10 | 0.830 | 150 | 50.00 | 38 | 55.80 | 37 |
| 51N | 51 | 2, 5, 10 | 250 | 25 | 1.75 | 0.820 | 100 | 50.40 | 47 | 59.40 | 37 |
| 56N | 56 | 2, 5, 10 | 250 | 25 | 1.76 | 0.970 | 100 | 57.40 | 49 | 72.40 | 40 |
| 68N | 68 | 2, 5, 10 | 250 | 22 | 1.62 | 1.120 | 100 | 69.60 | 45 | 83.40 | 38 |
| 82N | 82 | 2, 5, 10 | 250 | 22 | 1.26 | 1.550 | 50 | - | - | - | - |
| R10 | 100 | 2, 5, 10 | 250 | 22 | 1.16 | 2.000 | 30 | - | - | - | - |
| R12 | 120 | 2, 5, 10 | 250 | 20 | >1.80 | 2.660 | 50 | - | - | - | - |

Type 36501J Series – 0603 Package AEC-Q200

| Inductance | | Tolerance (± %) | L Freq. (MHz) | Quality Factor Min. | SRF (GHz) Min | DCR (Ω) Max. | IDC (mA) Max. | 900MHz | | 1.7GHz | |
|------------|-----|--------------------|---------------------|---------------------------|---------------------|--------------------|---------------------|--------|----|--------|----|
| Code | nH | | | | | | | L | Q | L | Q |
| 1N6 | 1.6 | 5, 10 | 250 | 24 | 12.5 | 0.030 | 700 | 1.53 | 35 | 1.58 | 55 |
| 1N8 | 1.8 | 5, 10 | 250 | 16 | 12.5 | 0.045 | 700 | 1.63 | 35 | 1.66 | 50 |
| 2N2 | 2.2 | 5, 10 | 250 | 15 | 6.00 | 0.100 | 700 | 2.18 | 41 | 2.20 | 64 |
| 2N3 | 2.3 | 5, 10 | 250 | 16 | >4.00 | 0.140 | 700 | 2.32 | 32 | 2.35 | 40 |
| 3N3 | 3.3 | 2, 5, 10 | 250 | 22 | >6.00 | 0.080 | 700 | 3.35 | 47 | 3.40 | 65 |
| 3N6 | 3.6 | 2, 5, 10 | 250 | 22 | 5.80 | 0.063 | 700 | 3.53 | 49 | 3.58 | 65 |
| 3N9 | 3.9 | 2, 5, 10 | 250 | 22 | >6.00 | 0.080 | 700 | 3.95 | 49 | 3.96 | 67 |
| 4N3 | 4.3 | 2, 5, 10 | 250 | 22 | 5.80 | 0.063 | 700 | 4.32 | 49 | 4.43 | 67 |
| 4N5 | 4.5 | 2, 5, 10 | 250 | 20 | 5.80 | 0.120 | 700 | 4.74 | 55 | 4.87 | 92 |
| 4N7 | 4.7 | 2, 5, 10 | 250 | 25 | 5.80 | 0.120 | 700 | 4.65 | 53 | 4.80 | 67 |
| 5N1 | 5.1 | 2, 5, 10 | 250 | 20 | 5.80 | 0.160 | 700 | 5.13 | 47 | 5.36 | 56 |
| 5N6 | 5.6 | 2, 5, 10 | 250 | 20 | 5.80 | 0.170 | 700 | 5.53 | 56 | 5.86 | 77 |
| 6N2 | 6.2 | 2, 5, 10 | 250 | 25 | 5.80 | 0.110 | 700 | 6.28 | 60 | 6.40 | 85 |
| 6N3 | 6.3 | 2, 5, 10 | 250 | 25 | 5.80 | 0.110 | 700 | 6.67 | 41 | 6.86 | 61 |
| 6N8 | 6.8 | 2, 5, 10 | 250 | 27 | 5.80 | 0.110 | 700 | 6.75 | 60 | 7.10 | 85 |
| 7N5 | 7.5 | 2, 5, 10 | 250 | 28 | 4.80 | 0.106 | 700 | 7.70 | 60 | 7.82 | 61 |
| 8N2 | 8.2 | 2, 5, 10 | 250 | 27 | 4.80 | 0.110 | 700 | 8.25 | 64 | 8.40 | 81 |
| 8N7 | 8.7 | 2, 5, 10 | 250 | 28 | 4.80 | 0.109 | 700 | 8.86 | 62 | 9.32 | 58 |
| 9N1 | 9.1 | 2, 5, 10 | 250 | 35 | 4.80 | 0.130 | 700 | 9.20 | 70 | 9.70 | 80 |
| 9N5 | 9.5 | 2, 5, 10 | 250 | 28 | 5.40 | 0.135 | 700 | 9.70 | 59 | 9.92 | 61 |

Type 36501J Series – 0603 Package (continued)

| Inductance | | Tolerance (± %) | L Freq. (MHz) | Quality Factor Min. | SRF (GHz) Min. | DCR (Ω) Max. | IDC (mA) Max. | 900MHz | | 1.7GHz | |
|------------|-----|--------------------|---------------------|---------------------------|----------------------|--------------------|---------------------|--------|----|--------|----|
| Code | nH | | | | | | | L | Q | L | Q |
| 10N | 10 | 2, 5, 10 | 250 | 31 | 4.80 | 0.130 | 700 | 10.0 | 66 | 10.6 | 83 |
| 11N | 11 | 2, 5, 10 | 250 | 31 | 4.00 | 0.086 | 700 | 11.3 | 53 | 12.1 | 56 |
| 12N | 12 | 2, 5, 10 | 250 | 35 | 4.00 | 0.130 | 700 | 12.3 | 72 | 13.5 | 83 |
| 15N | 15 | 2, 5, 10 | 250 | 35 | 4.00 | 0.170 | 700 | 15.4 | 64 | 16.8 | 89 |
| 16N | 16 | 2, 5, 10 | 250 | 35 | 3.30 | 0.110 | 700 | 16.5 | 55 | 18.0 | 52 |
| 17N | 17 | 2, 5, 10 | 250 | 35 | 3.20 | 0.170 | 700 | 17.6 | 56 | 19.4 | 44 |
| 18N | 18 | 2, 5, 10 | 250 | 35 | 3.10 | 0.170 | 700 | 18.7 | 70 | 21.4 | 69 |
| 20N | 20 | 2, 5, 10 | 250 | 40 | 3.00 | 0.190 | 700 | 20.7 | 80 | 23.5 | 30 |
| 22N | 22 | 2, 5, 10 | 250 | 38 | 3.00 | 0.190 | 700 | 22.8 | 73 | 26.1 | 71 |
| 23N | 23 | 2, 5, 10 | 250 | 38 | 2.85 | 0.190 | 700 | 24.1 | 71 | 28.0 | 71 |
| 24N | 24 | 2, 5, 10 | 250 | 38 | 2.80 | 0.130 | 700 | 25.7 | 45 | 30.9 | 40 |
| 27N | 27 | 2, 5, 10 | 250 | 40 | 2.80 | 0.220 | 600 | 29.2 | 74 | 34.6 | 65 |
| 30N | 30 | 2, 5, 10 | 250 | 40 | 2.80 | 0.150 | 600 | 31.4 | 47 | 39.8 | 28 |
| 33N | 33 | 2, 5, 10 | 250 | 40 | 2.30 | 0.220 | 600 | 36.0 | 67 | 49.5 | 42 |
| 36N | 36 | 2, 5, 10 | 250 | 37 | 2.30 | 0.250 | 600 | 39.1 | 47 | 48.9 | 24 |
| 39N | 39 | 2, 5, 10 | 250 | 40 | 2.20 | 0.250 | 600 | 42.7 | 60 | 60.2 | 40 |
| 43N | 43 | 2, 5, 10 | 200 | 38 | 2.00 | 0.280 | 600 | 46.9 | 44 | 60.3 | 21 |
| 47N | 47 | 2, 5, 10 | 200 | 38 | 2.00 | 0.280 | 600 | 52.2 | 62 | 77.2 | 35 |
| 51N | 51 | 2, 5, 10 | 200 | 38 | 1.90 | 0.280 | 600 | 55.5 | 69 | 82.2 | 34 |
| 56N | 56 | 2, 5, 10 | 200 | 38 | 1.90 | 0.310 | 600 | 62.5 | 56 | 97.0 | 26 |
| 62N | 62 | 2, 5, 10 | 200 | 37 | 1.80 | 0.340 | 600 | 68.0 | 40 | 110 | 10 |
| 68N | 68 | 2, 5, 10 | 200 | 37 | 1.70 | 0.340 | 600 | 80.5 | 54 | 168 | 21 |
| 72N | 72 | 2, 5, 10 | 150 | 34 | 1.70 | 0.490 | 600 | 82.0 | 53 | 135 | 20 |
| 82N | 82 | 2, 5, 10 | 150 | 34 | 1.70 | 0.540 | 400 | 96.2 | 54 | 177 | 21 |
| 91N | 91 | 2, 5, 10 | 150 | 30 | 1.70 | 0.500 | 400 | 110.0 | 50 | 416.4 | 6 |
| R10 | 100 | 2, 5, 10 | 150 | 34 | 1.40 | 0.580 | 400 | 124.0 | 49 | 319.5 | 13 |
| R11 | 110 | 2, 5, 10 | 150 | 32 | 1.35 | 0.610 | 300 | 138.0 | 43 | 342.7 | 15 |
| R12 | 120 | 2, 5, 10 | 150 | 32 | 1.30 | 0.650 | 300 | 166.0 | 39 | 529.3 | 8 |
| R13 | 130 | 2, 5, 10 | 150 | 30 | 1.40 | 0.720 | 300 | 185.0 | 60 | - | - |
| R14 | 140 | 2, 5, 10 | 100 | 28 | 1.30 | 0.870 | 280 | 190.0 | 80 | - | - |
| R15 | 150 | 2, 5, 10 | 100 | 28 | 1.30 | 0.950 | 280 | 230.0 | 25 | - | - |
| R16 | 160 | 2, 5, 10 | 100 | 25 | 1.30 | 1.400 | 280 | 215.0 | 20 | - | - |
| R18 | 180 | 2, 5, 10 | 100 | 25 | 1.25 | 1.400 | 250 | 305.0 | 22 | - | - |
| R22 | 220 | 2, 5, 10 | 100 | 25 | 1.20 | 1.600 | 250 | 377.0 | 21 | - | - |
| R26 | 260 | 2, 5, 10 | 100 | 25 | 1.00 | 2.000 | 200 | 469.0 | 21 | - | - |
| R27 | 270 | 2, 5, 10 | 100 | 25 | 0.90 | 2.100 | 200 | 523.0 | 19 | - | - |
| R28 | 280 | 2, 5, 10 | 100 | 25 | 1.00 | 2.400 | 100 | 524.0 | 18 | - | - |
| R30 | 300 | 2, 5, 10 | 100 | 25 | 0.75 | 2.500 | 150 | 539.7 | 21 | - | - |
| R33 | 330 | 2, 5, 10 | 100 | 25 | 0.90 | 3.800 | 100 | 680.4 | 20 | - | - |
| R39 | 390 | 2, 5, 10 | 100 | 25 | 0.90 | 4.350 | 100 | 734.5 | 29 | - | - |
| R47 | 470 | 2, 5, 10 | 100 | 23 | 0.60 | 3.600 | 80 | - | - | - | - |

Type 36502A Series – 0805 Package AEC-Q200

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-----|-----------|----------------------|---------------------------|-------------------|-----------------|------------------|
| Code | nH | | | | | | |
| 2N7 | 2.7 | ±5, ±10% | 250 | 80 @ 1500MHz | 7.900 | 0.06 | 800 |
| 2N8 | 2.8 | ±5, ±10% | 250 | 80 @ 1500MHz | 7.900 | 0.06 | 800 |
| 3N0 | 3.0 | ±5, ±10% | 250 | 65 @ 1500MHz | 7.900 | 0.06 | 800 |
| 3N3 | 3.3 | ±5, ±10% | 250 | 50 @ 1500MHz | 6.000 | 0.08 | 600 |
| 3N9 | 3.9 | ±5, ±10% | 250 | 50 @ 1500MHz | 5.500 | 0.08 | 600 |
| 4N7 | 4.7 | ±5, ±10% | 250 | 65 @ 1000MHz | 5.500 | 0.08 | 600 |
| 5N6 | 5.6 | ±5, ±10% | 250 | 65 @ 1000MHz | 5.500 | 0.08 | 600 |

Type 36502A Series – 0805 Package (continued)

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|------|--------------|----------------|---------------------|----------------|--------------|---------------|
| Code | nH | | | | | | |
| 6N2 | 6.2 | ±5, ±10% | 250 | 50 @ 1000MHz | 5.500 | 0.11 | 600 |
| 6N8 | 6.8 | ±5, ±10% | 250 | 50 @ 1000MHz | 5.500 | 0.11 | 600 |
| 7N5 | 7.5 | ±5, ±10% | 250 | 50 @ 1000MHz | 4.500 | 0.14 | 600 |
| 8N2 | 8.2 | ±5, ±10% | 250 | 50 @ 1000MHz | 4.700 | 0.12 | 600 |
| 8N7 | 8.7 | ±5, ±10% | 250 | 50 @ 1000MHz | 4.000 | 0.21 | 400 |
| 10N | 10 | ±2, ±5, ±10% | 250 | 60 @ 500MHz | 4.200 | 0.10 | 600 |
| 12N | 12 | ±2, ±5, ±10% | 250 | 50 @ 500MHz | 4.000 | 0.15 | 600 |
| 15N | 15 | ±2, ±5, ±10% | 250 | 50 @ 500MHz | 3.400 | 0.17 | 600 |
| 18N | 18 | ±2, ±5, ±10% | 250 | 50 @ 500MHz | 3.300 | 0.20 | 600 |
| 20N | 20 | ±2, ±5, ±10% | 250 | 55 @ 500MHz | 2.600 | 0.22 | 500 |
| 22N | 22 | ±2, ±5, ±10% | 250 | 55 @ 500MHz | 2.600 | 0.22 | 500 |
| 24N | 24 | ±2, ±5, ±10% | 250 | 50 @ 500MHz | 2.000 | 0.22 | 500 |
| 27N | 27 | ±2, ±5, ±10% | 250 | 55 @ 500MHz | 2.500 | 0.25 | 500 |
| 30N | 30 | ±2, ±5, ±10% | 250 | 60 @ 500MHz | 2.050 | 0.25 | 500 |
| 33N | 33 | ±2, ±5, ±10% | 250 | 60 @ 500MHz | 2.050 | 0.27 | 500 |
| 36N | 36 | ±2, ±5, ±10% | 250 | 55 @ 500MHz | 1.700 | 0.27 | 500 |
| 39N | 39 | ±2, ±5, ±10% | 250 | 60 @ 500MHz | 2.000 | 0.29 | 500 |
| 43N | 43 | ±2, ±5, ±10% | 200 | 60 @ 500MHz | 1.650 | 0.34 | 500 |
| 47N | 47 | ±2, ±5, ±10% | 200 | 60 @ 500MHz | 1.650 | 0.31 | 500 |
| 56N | 56 | ±2, ±5, ±10% | 200 | 60 @ 500MHz | 1.550 | 0.34 | 500 |
| 68N | 68 | ±2, ±5, ±10% | 200 | 60 @ 500MHz | 1.450 | 0.38 | 500 |
| 72N | 72 | ±2, ±5, ±10% | 150 | 65 @ 500MHz | 1.400 | 0.40 | 500 |
| 82N | 82 | ±2, ±5, ±10% | 150 | 65 @ 500MHz | 1.300 | 0.42 | 400 |
| 91N | 91 | ±2, ±5, ±10% | 150 | 65 @ 500MHz | 1.200 | 0.48 | 400 |
| R10 | 100 | ±2, ±5, ±10% | 150 | 65 @ 500MHz | 1.200 | 0.46 | 400 |
| R11 | 110 | ±2, ±5, ±10% | 150 | 50 @ 250MHz | 1.000 | 0.48 | 400 |
| R12 | 120 | ±2, ±5, ±10% | 150 | 50 @ 250MHz | 1.100 | 0.51 | 400 |
| R15 | 150 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.920 | 0.56 | 400 |
| R16 | 160 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.870 | 0.60 | 400 |
| R18 | 180 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.870 | 0.64 | 400 |
| R20 | 200 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.860 | 0.66 | 400 |
| R22 | 220 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.850 | 0.70 | 400 |
| R24 | 240 | ±2, ±5, ±10% | 100 | 44 @ 250MHz | 0.690 | 1.00 | 350 |
| R25 | 250 | ±2, ±5, ±10% | 100 | 50 @ 250MHz | 0.680 | 1.00 | 350 |
| R27 | 270 | ±2, ±5, ±10% | 100 | 48 @ 250MHz | 0.650 | 1.00 | 350 |
| R30 | 300 | ±2, ±5, ±10% | 100 | 48 @ 250MHz | 0.620 | 1.20 | 330 |
| R33 | 330 | ±2, ±5, ±10% | 100 | 48 @ 250MHz | 0.600 | 1.40 | 310 |
| R36 | 360 | ±2, ±5, ±10% | 100 | 48 @ 250MHz | 0.580 | 1.45 | 300 |
| R39 | 390 | ±2, ±5, ±10% | 100 | 48 @ 250MHz | 0.560 | 1.50 | 290 |
| R43 | 430 | ±2, ±5, ±10% | 50 | 33 @ 100MHz | 0.430 | 1.70 | 230 |
| R47 | 470 | ±2, ±5, ±10% | 50 | 33 @ 100MHz | 0.375 | 1.70 | 250 |
| R56 | 560 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.340 | 1.90 | 230 |
| R60 | 600 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.260 | 1.60 | 450 |
| R62 | 620 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.220 | 2.20 | 210 |
| R68 | 680 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.200 | 2.20 | 190 |
| R75 | 750 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.200 | 2.30 | 180 |
| R82 | 820 | ±2, ±5, ±10% | 25 | 23 @ 50MHz | 0.200 | 2.35 | 180 |
| 1R0 | 1000 | ±2, ±5, ±10% | 25 | 20 @ 50MHz | 0.100 | 2.50 | 170 |
| 1R2 | 1200 | ±2, ±5, ±10% | 7.9 | 18 @ 25MHz | 0.100 | 2.50 | 170 |
| 1R5 | 1500 | ±2, ±5, ±10% | 7.9 | 16 @ 25MHz | 0.100 | 2.50 | 170 |
| 1R8 | 1800 | ±2, ±5, ±10% | 7.9 | 16 @ 7.9MHz | 0.080 | 2.50 | 170 |
| 2R2 | 2200 | ±2, ±5, ±10% | 7.9 | 16 @ 7.9MHz | 0.060 | 2.70 | 160 |
| 2R7 | 2700 | ±2, ±5, ±10% | 7.9 | 16 @ 7.9MHz | 0.050 | 3.10 | 150 |
| 3R3 | 3300 | ±2, ±5, ±10% | 7.9 | 15 @ 7.9MHz | 0.040 | 4.40 | 90 |
| 4R7 | 4700 | ±2, ±5, ±10% | 7.9 | 15 @ 7.9MHz | 0.040 | 6.40 | 90 |



Type 36502C Series – 1008 Package AEC-Q200

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-------|--------------|----------------|---------------------|----------------|--------------|---------------|
| Code | nH | | | | | | |
| 4N7 | 4.7 | ±5, ±10% | 50 | 50 @ 1500MHz | 4.000 | 0.15 | 1000 |
| 5N6 | *5.6 | ±5, ±10% | 50 | 50 @ 1500MHz | 4.000 | 0.15 | 1000 |
| 10N | *10 | ±2, ±5, ±10% | 50 | 50 @ 500MHz | 4.100 | 0.08 | 1000 |
| 12N | *12 | ±2, ±5, ±10% | 50 | 50 @ 500MHz | 3.300 | 0.09 | 1000 |
| 15N | *15 | ±2, ±5, ±10% | 50 | 50 @ 500MHz | 2.500 | 0.11 | 1000 |
| 18N | *18 | ±2, ±5, ±10% | 50 | 50 @ 350MHz | 2.400 | 0.12 | 1000 |
| 22N | *22 | ±2, ±5, ±10% | 50 | 55 @ 350MHz | 2.400 | 0.12 | 1000 |
| 24N | 24 | ±2, ±5, ±10% | 50 | 55 @ 350MHz | 1.900 | 0.13 | 1000 |
| 27N | *27 | ±2, ±5, ±10% | 50 | 55 @ 350MHz | 1.600 | 0.13 | 1000 |
| 30N | 30 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.600 | 0.14 | 1000 |
| 33N | *33 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.600 | 0.14 | 1000 |
| 36N | 36 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.600 | 0.15 | 1000 |
| 39N | *39 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.500 | 0.15 | 1000 |
| 47N | *47 | ±2, ±5, ±10% | 50 | 65 @ 350MHz | 1.500 | 0.16 | 1000 |
| 56N | *56 | ±2, ±5, ±10% | 50 | 65 @ 350MHz | 1.300 | 0.18 | 1000 |
| 62N | *62 | ±2, ±5, ±10% | 50 | 65 @ 350MHz | 1.250 | 0.20 | 1000 |
| 68N | *68 | ±2, ±5, ±10% | 50 | 65 @ 350MHz | 1.300 | 0.20 | 1000 |
| 75N | 75 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.100 | 0.21 | 1000 |
| 82N | *82 | ±2, ±5, ±10% | 50 | 60 @ 350MHz | 1.000 | 0.22 | 1000 |
| 91N | 91 | ±2, ±5, ±10% | 50 | 50 @ 350MHz | 1.000 | 0.45 | 1000 |
| R10 | *100 | ±2, ±5, ±10% | 25 | 60 @ 350MHz | 1.000 | 0.56 | 650 |
| R12 | *120 | ±2, ±5, ±10% | 25 | 60 @ 350MHz | 0.950 | 0.63 | 650 |
| R15 | *150 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.850 | 0.70 | 800 |
| R18 | *180 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.750 | 0.77 | 620 |
| R22 | *220 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.700 | 0.84 | 500 |
| R24 | *240 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.650 | 0.88 | 500 |
| R27 | *270 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.600 | 0.91 | 690 |
| R30 | *300 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.585 | 1.00 | 450 |
| R33 | *330 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.570 | 1.05 | 450 |
| R36 | *360 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.530 | 1.10 | 470 |
| R39 | *390 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.500 | 1.12 | 630 |
| R43 | *430 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.480 | 1.15 | 470 |
| R47 | *470 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.450 | 1.19 | 470 |
| R56 | *560 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.415 | 1.33 | 580 |
| R62 | *620 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.375 | 1.40 | 300 |
| R68 | *680 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.375 | 1.47 | 540 |
| R75 | *750 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.360 | 1.54 | 360 |
| R82 | *820 | ±2, ±5, ±10% | 25 | 45 @ 100MHz | 0.350 | 1.61 | 400 |
| R91 | *910 | ±2, ±5, ±10% | 25 | 35 @ 50MHz | 0.320 | 1.68 | 380 |
| 1R0 | *1000 | ±2, ±5, ±10% | 25 | 35 @ 50MHz | 0.290 | 1.75 | 370 |
| 1R2 | *1200 | ±2, ±5, ±10% | 7.9 | 35 @ 50MHz | 0.250 | 2.00 | 310 |
| 1R5 | *1500 | ±2, ±5, ±10% | 7.9 | 28 @ 50MHz | 0.200 | 2.30 | 330 |
| 1R8 | *1800 | ±2, ±5, ±10% | 7.9 | 28 @ 50MHz | 0.160 | 2.60 | 300 |
| 2R2 | *2200 | ±2, ±5, ±10% | 7.9 | 28 @ 50MHz | 0.160 | 2.80 | 280 |
| 2R7 | *2700 | ±2, ±5, ±10% | 7.9 | 22 @ 25MHz | 0.140 | 3.20 | 290 |
| 3R3 | *3300 | ±2, ±5, ±10% | 7.9 | 22 @ 25MHz | 0.110 | 3.40 | 290 |
| 3R9 | *3900 | ±2, ±5, ±10% | 7.9 | 18 @ 25MHz | 0.100 | 3.60 | 260 |
| 4R7 | *4700 | ±2, ±5, ±10% | 7.9 | 18 @ 25MHz | 0.090 | 4.00 | 260 |
| 5R6 | 5600 | ±2, ±5, ±10% | 7.9 | 16 @ 7.96MHz | 0.020 | 4.00 | 240 |
| 6R8 | 6800 | ±2, ±5, ±10% | 7.9 | 15 @ 7.96MHz | 0.040 | 4.90 | 200 |
| 8R2 | 8200 | ±2, ±5, ±10% | 7.9 | 15 @ 7.96MHz | 0.025 | 6.00 | 170 |
| 103 | 10000 | ±2, ±5, ±10% | 2.52 | 15 @ 7.96MHz | 0.020 | 9.00 | 150 |
| 123 | 12000 | ±2, ±5, ±10% | 2.52 | 15 @ 7.96MHz | 0.018 | 10.5 | 130 |
| 153 | 15000 | ±2, ±5, ±10% | 2.52 | 15 @ 7.96MHz | 0.015 | 11.5 | 120 |

“*” Test Methods / Instrument: Network / Spectrum Analyzer

Type 36521J Series – 0603 Package – High Current

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-----|--------------|----------------|---------------------|----------------|--------------|---------------|
| Code | nH | | | | | | |
| 1N6 | 1.6 | ±5, ±10% | 250 | 24 | 12.50 | 0.030 | 2400 |
| 3N6 | 3.6 | ±5, ±10% | 250 | 24 | 5.90 | 0.048 | 2300 |
| 3N9 | 3.9 | ±5, ±10% | 250 | 25 | 5.90 | 0.054 | 2200 |
| 6N8 | 6.8 | ±5, ±10% | 250 | 35 | 5.80 | 0.054 | 2100 |
| 7N5 | 7.5 | ±5, ±10% | 250 | 38 | 3.70 | 0.059 | 2100 |
| 8N2 | 8.2 | ±5, ±10% | 250 | 38 | 3.70 | 0.060 | 2000 |
| 10N | 10 | ±2, ±5, ±10% | 250 | 38 | 3.70 | 0.071 | 2000 |
| 12N | 12 | ±2, ±5, ±10% | 250 | 38 | 3.00 | 0.075 | 2000 |
| 15N | 15 | ±2, ±5, ±10% | 250 | 38 | 2.80 | 0.080 | 1900 |
| 18N | 18 | ±2, ±5, ±10% | 250 | 40 | 2.80 | 0.099 | 1900 |
| 22N | 22 | ±2, ±5, ±10% | 250 | 42 | 2.40 | 0.099 | 1800 |
| 24N | 24 | ±2, ±5, ±10% | 250 | 42 | 2.40 | 0.105 | 1800 |

Type 36531J Series – 0603 Package – High Q

| Inductance | | Tolerance | L Freq MHz | Q typ 250 (MHz) | SRF Typ GHz | DCR Ω Max | IDC mA Max | 900MHz | | 1.7GHz | |
|------------|-----|--------------|------------|-----------------|-------------|-----------|------------|--------|-------|--------|-------|
| Code | nH | | | | | | | L typ | Q typ | L typ | Q typ |
| 1N8 | 1.8 | ±5, ±10% | 250 | 23 | 16.0 | 0.033 | 2100 | 1.77 | 40 | 1.77 | 65 |
| 2N2 | 2.2 | ±5, ±10% | 250 | 13 | 15.0 | 0.180 | 900 | 2.14 | 25 | 2.12 | 35 |
| 3N3 | 3.3 | ±5, ±10% | 250 | 32 | 9.60 | 0.024 | 1900 | 3.28 | 67 | 3.32 | 104 |
| 3N6 | 3.6 | ±2, ±5, ±10% | 250 | 40 | 9.70 | 0.031 | 1900 | 3.59 | 70 | 3.62 | 116 |
| 3N9 | 3.9 | ±2, ±5, ±10% | 250 | 35 | 7.50 | 0.039 | 1600 | 3.88 | 68 | 3.95 | 108 |
| 4N3 | 4.3 | ±2, ±5, ±10% | 250 | 30 | 7.50 | 0.080 | 1300 | 4.29 | 58 | 4.31 | 91 |
| 4N7 | 4.7 | ±2, ±5, ±10% | 250 | 26 | 7.90 | 0.100 | 1100 | 4.65 | 48 | 4.71 | 75 |
| 5N1 | 5.1 | ±2, ±5, ±10% | 250 | 40 | 8.90 | 0.036 | 1700 | 5.08 | 84 | 5.12 | 140 |
| 5N6 | 5.6 | ±2, ±5, ±10% | 250 | 48 | 6.60 | 0.036 | 1700 | 5.6 | 87 | 5.73 | 456 |
| 6N | 6 | ±2, ±5, ±10% | 250 | 49 | 6.00 | 0.036 | 1700 | 5.92 | 94 | 6.12 | 154 |
| 6N8 | 6.8 | ±2, ±5, ±10% | 250 | 42 | 5.80 | 0.042 | 1400 | 6.83 | 88 | 7.05 | 143 |
| 7N2 | 7.2 | ±2, ±5, ±10% | 250 | 48 | 5.40 | 0.052 | 1400 | 7.25 | 96 | 7.38 | 139 |
| 7N5 | 7.5 | ±2, ±5, ±10% | 250 | 41 | 5.30 | 0.080 | 1300 | 7.55 | 81 | 7.85 | 12 |
| 8N2 | 8.2 | ±2, ±5, ±10% | 250 | 46 | 5.90 | 0.054 | 1400 | 8.21 | 96 | 8.39 | 148 |
| 8N7 | 8.7 | ±2, ±5, ±10% | 250 | 46 | 5.50 | 0.054 | 1400 | 8.73 | 97 | 9.00 | 149 |
| 9N1 | 9.1 | ±2, ±5, ±10% | 250 | 40 | 5.10 | 0.037 | 1400 | 9.18 | 76 | 9.64 | 109 |
| 9N5 | 9.5 | ±2, ±5, ±10% | 250 | 49 | 4.90 | 0.053 | 1400 | 9.56 | 98 | 9.99 | 149 |
| 10N | 10 | ±2, ±5, ±10% | 250 | 49 | 4.30 | 0.048 | 1400 | 10.16 | 90 | 10.64 | 142 |
| 11N | 11 | ±2, ±5, ±10% | 250 | 41 | 4.10 | 0.058 | 1400 | 11.06 | 78 | 11.82 | 108 |
| 12N | 12 | ±2, ±5, ±10% | 250 | 37 | 4.10 | 0.088 | 1100 | 12.26 | 69 | 13.2 | 91 |

Type 36531J Series – 0603 Package – High Q (cont.)

| Inductance | | Tolerance | L Freq MHz | Q typ 250 (MHz) | SRF Typ GHz | DCR Ω Max | IDC mA Max | 900MHz | | 1.7GHz | |
|------------|-----|--------------|------------|-----------------|-------------|-----------|------------|--------|-------|--------|-------|
| Cod e | nH | | | | | | | L typ | Q typ | L typ | Q typ |
| 15N | 15 | ±2, ±5, ±10% | 250 | 48 | 3.60 | 0.078 | 1200 | 15.41 | 83 | 17.2 | 124 |
| 16N | 16 | ±2, ±5, ±10% | 250 | 45 | 3.50 | 0.085 | 1100 | 16.37 | 77 | 18.7 | 116 |
| 18N | 18 | ±2, ±5, ±10% | 250 | 41 | 3.30 | 0.066 | 1200 | 18.56 | 76 | 20.9 | 100 |
| 22N | 22 | ±2, ±5, ±10% | 250 | 44 | 3.15 | 0.140 | 850 | 22.7 | 77 | 25.9 | 88 |
| 23N | 23 | ±2, ±5, ±10% | 250 | 40 | 3.00 | 0.183 | 850 | 24 | 69 | 29.53 | 80 |
| 24N | 24 | ±2, ±5, ±10% | 250 | 42 | 2.95 | 0.074 | 1100 | 24.9 | 77 | 28.9 | 91 |
| 27N | 27 | ±2, ±5, ±10% | 250 | 44 | 2.80 | 0.150 | 780 | 28.4 | 74 | 34.0 | 84 |
| 30N | 30 | ±2, ±5, ±10% | 250 | 49 | 2.80 | 0.130 | 920 | 31.5 | 82 | 37.9 | 82 |
| 33N | 33 | ±2, ±5, ±10% | 250 | 45 | 2.70 | 0.170 | 680 | 34.9 | 76 | 42.9 | 80 |
| 36N | 36 | ±2, ±5, ±10% | 250 | 44 | 2.50 | 0.225 | 720 | 38.5 | 69 | 50.0 | 64 |
| 39N | 39 | ±2, ±5, ±10% | 250 | 48 | 2.45 | 0.19 | 680 | 41.5 | 78 | 51.9 | 74 |
| 43N | 43 | ±2, ±5, ±10% | 250 | 45 | 2.45 | 0.17 | 810 | 45.7 | 83 | 58.1 | 76 |
| 47N | 47 | ±2, ±5, ±10% | 200 | 47 | 2.30 | 0.24 | 680 | 50.6 | 77 | 66.9 | 72 |
| 51N | 51 | ±2, ±5, ±10% | 200 | 49 | 2.30 | 0.28 | 660 | 54.6 | 73 | 71.3 | 62 |
| 56N | 56 | ±2, ±5, ±10% | 200 | 50 | 2.20 | 0.30 | 610 | 60.3 | 74 | 79.9 | 56 |
| 68N | 68 | ±2, ±5, ±10% | 200 | 46 | 2.00 | 0.33 | 600 | 75.5 | 73 | 113.3 | 49 |
| 72N | 72 | ±2, ±5, ±10% | 150 | 46 | 1.90 | 0.42 | 550 | 80.8 | 69 | - | - |
| 75N | 75 | ±2, ±5, ±10% | 150 | 46 | 1.90 | 0.52 | 500 | 84.6 | 71 | - | - |
| 82N | 82 | ±2, ±5, ±10% | 150 | 45 | 1.80 | 0.46 | 510 | 94 | 62 | - | - |
| 91N | 91 | ±2, ±5, ±10% | 150 | 45 | 1.65 | 0.58 | 440 | 103 | 64 | - | - |
| R10 | 100 | ±2, ±5, ±10% | 150 | 49 | 1.70 | 0.54 | 470 | 114 | 69 | - | - |
| R11 | 110 | ±2, ±5, ±10% | 150 | 47 | 1.60 | 0.58 | 440 | 126.2 | 63 | - | - |
| R12 | 120 | ±2, ±5, ±10% | 150 | 47 | 1.55 | 0.72 | 420 | 142.4 | 61 | - | - |
| R15 | 150 | ±2, ±5, ±10% | 150 | 47 | 1.35 | 0.82 | 390 | 188.8 | 57 | - | - |
| R18 | 180 | ±2, ±5, ±10% | 100 | 48 | 1.30 | 1.50 | 310 | 232.2 | 50 | - | - |
| R20 | 200 | ±2, ±5, ±10% | 100 | 47 | 1.25 | 2.00 | 280 | 265 | 47 | - | - |
| R21 | 210 | ±2, ±5, ±10% | 100 | 48 | 1.20 | 2.00 | 280 | 288 | 45 | - | - |
| R22 | 220 | ±2, ±5, ±10% | 100 | 47 | 1.10 | 2.00 | 280 | 315 | 41 | - | - |

Type 36531J Series – 0603 Package – High Q (cont.)

| Inductance | | Tolerance | L Freq MHz | Q typ 250 (MHz) | SRF Typ GHz | DCR Ω Max | IDC mA Max | 900MHz | | 1.7GHz | |
|------------|-----|--------------|------------|-----------------|-------------|-----------|------------|--------|-------|--------|-------|
| Code | nH | | | | | | | L typ | Q typ | L typ | Q typ |
| R25 | 250 | ±2, ±5, ±10% | 100 | 45 | 1.05 | 3.00 | 240 | - | - | - | - |
| R27 | 270 | ±2, ±5, ±10% | 100 | 46 | 1.05 | 2.25 | 260 | - | - | - | - |
| R30 | 300 | ±2, ±5, ±10% | 100 | 47 | 0.99 | 2.80 | 220 | - | - | - | - |
| R33 | 330 | ±2, ±5, ±10% | 100 | 46 | 0.93 | 3.60 | 180 | - | - | - | - |
| R36 | 360 | ±2, ±5, ±10% | 100 | 47 | 0.93 | 4.00 | 170 | - | - | - | - |
| R39 | 390 | ±2, ±5, ±10% | 100 | 47 | 0.88 | 4.00 | 170 | - | - | - | - |

Type 36532A Series – 0805 Package – High Q

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-----|--------------|----------------|---------------------|----------------|--------------|---------------|
| Code | nH | | | | | | |
| 2N5 | 2.5 | ±5, ±10% | 250 | 80 @ 1500MHz | 6.00 | 0.020 | 1600 |
| 5N6 | 5.6 | ±5, ±10% | 250 | 98 @ 1500MHz | 6.00 | 0.035 | 1600 |
| 6N2 | 6.2 | ±5, ±10% | 250 | 88 @ 1000MHz | 4.75 | 0.035 | 1600 |
| 6N8 | 6.8 | ±5, ±10% | 250 | 80 @ 1000MHz | 4.40 | 0.035 | 1600 |
| 8N2 | 8.2 | ±5, ±10% | 250 | 75 @ 1000MHz | 3.00 | 0.075 | 1000 |
| 10N | 10 | ±5, ±10% | 250 | 80 @ 1000MHz | 3.00 | 0.060 | 1600 |
| 12N | 12 | ±5, ±10% | 250 | 80 @ 1000MHz | 3.00 | 0.045 | 1600 |
| 15N | 15 | ±2, ±5, ±10% | 250 | 80 @ 1000MHz | 2.80 | 0.100 | 1200 |
| 16N | 16 | ±2, ±5, ±10% | 250 | 72 @ 500MHz | 2.95 | 0.060 | 1500 |
| 18N | 18 | ±2, ±5, ±10% | 250 | 75 @ 500MHz | 2.55 | 0.060 | 1400 |
| 20N | 20 | ±2, ±5, ±10% | 250 | 70 @ 500MHz | 2.05 | 0.055 | 1400 |
| 22N | 22 | ±2, ±5, ±10% | 250 | 80 @ 500MHz | 2.00 | 0.100 | 1200 |
| 27N | 27 | ±2, ±5, ±10% | 250 | 75 @ 500MHz | 2.00 | 0.070 | 1300 |
| 30N | 30 | ±2, ±5, ±10% | 250 | 65 @ 500MHz | 1.95 | 0.095 | 1200 |
| 39N | 39 | ±2, ±5, ±10% | 250 | 65 @ 500MHz | 1.60 | 0.110 | 1100 |
| 48N | 48 | ±2, ±5, ±10% | 200 | 65 @ 500MHz | 1.40 | 0.095 | 1200 |
| 51N | 51 | ±2, ±5, ±10% | 200 | 65 @ 500MHz | 1.40 | 0.120 | 1000 |

Type 36532C Series – 1008 Package – High Q

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor Min. | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-----|--------------|----------------|---------------------|----------------|--------------|---------------|
| Code | nH | | | | | | |
| 3N0 | 3.0 | ±5, ±10% | 50 | 70 @ 1500MHz | 6.00 | 0.04 | 1600 |
| 3N9 | 3.9 | ±5, ±10% | 50 | 75 @ 1500MHz | 6.00 | 0.05 | 1600 |
| 4N1 | 4.1 | ±5, ±10% | 50 | 75 @ 1500MHz | 6.00 | 0.05 | 1600 |
| 7N8 | 7.8 | ±5, ±10% | 50 | 75 @ 500MHz | 3.80 | 0.05 | 1600 |
| 10N | 10 | ±2, ±5, ±10% | 50 | 60 @ 500MHz | 3.60 | 0.06 | 1600 |
| 12N | 12 | ±2, ±5, ±10% | 50 | 70 @ 500MHz | 2.80 | 0.06 | 1500 |
| 18N | 18 | ±2, ±5, ±10% | 50 | 62 @ 350MHz | 2.70 | 0.07 | 1400 |
| 22N | 22 | ±2, ±5, ±10% | 50 | 62 @ 350MHz | 2.05 | 0.07 | 1400 |
| 33N | 33 | ±2, ±5, ±10% | 50 | 75 @ 350MHz | 1.70 | 0.09 | 1300 |
| 39N | 39 | ±2, ±5, ±10% | 50 | 75 @ 350MHz | 1.30 | 0.09 | 1300 |
| 47N | 47 | ±2, ±5, ±10% | 50 | 75 @ 350MHz | 1.45 | 0.12 | 1200 |
| 56N | 56 | ±2, ±5, ±10% | 50 | 75 @ 350MHz | 1.23 | 0.12 | 1200 |
| 68N | 68 | ±2, ±5, ±10% | 50 | 80 @ 350MHz | 1.15 | 0.13 | 1100 |
| 82N | 82 | ±2, ±5, ±10% | 50 | 80 @ 350MHz | 1.06 | 0.16 | 1100 |
| R10 | 100 | ±2, ±5, ±10% | 50 | 50 @ 350MHz | 0.82 | 0.16 | 1000 |

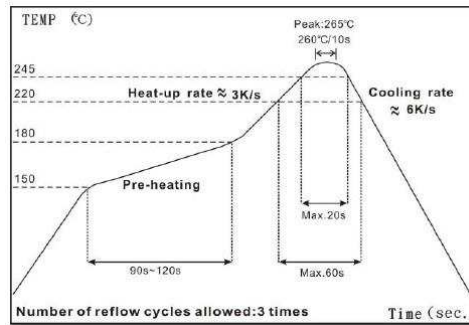
Parts (3.0nH, 7.8nH) are wound on a low profile bobbin. (Max 2.4 x 2.01 x 1.09)



Type 36541E Series – 0402 Package – High SRF

| Inductance | | Tolerance | L. Freq. (MHz) | Quality Factor | | SRF (GHz) min. | DCR (Ω) max. | IDC (mA) max. |
|------------|-----|--------------------------|----------------|----------------|--------|----------------|--------------|---------------|
| Code | nH | | | 900MHz | 1.7GHz | | | |
| 1N0 | 1.0 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 46 | 75 | 16.0 | 0.030 | 2300 |
| 2N0 | 2.0 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 58 | 85 | 15.2 | 0.038 | 2100 |
| 2N2 | 2.2 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 60 | 86 | 15.1 | 0.038 | 2100 |
| 2N4 | 2.4 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 60 | 83 | 14.0 | 0.042 | 2000 |
| 2N7 | 2.7 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 62 | 85 | 13.0 | 0.075 | 1500 |
| 3N3 | 3.3 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 66 | 95 | 12.8 | 0.045 | 1700 |
| 3N6 | 3.6 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 65 | 94 | 11.7 | 0.045 | 1700 |
| 3N9 | 3.9 | ±0.2nH,±0.5nH, ±5%, ±10% | 250 | 64 | 98 | 9.50 | 0.045 | 1700 |
| 4N3 | 4.3 | ±0.5nH, ±5%, ±10% | 250 | 63 | 90 | 7.15 | 0.050 | 1600 |
| 4N7 | 4.7 | ±0.5nH, ±5%, ±10% | 250 | 58 | 83 | 6.85 | 0.070 | 1500 |
| 5N1 | 5.1 | ±2%, ±5%, ±10% | 250 | 54 | 76 | 6.80 | 0.115 | 1200 |
| 5N6 | 5.6 | ±2%, ±5%, ±10% | 250 | 73 | 105 | 6.50 | 0.050 | 1600 |
| 6N2 | 6.2 | ±2%, ±5%, ±10% | 250 | 73 | 100 | 5.80 | 0.055 | 1600 |
| 6N8 | 6.8 | ±2%, ±5%, ±10% | 250 | 68 | 94 | 5.80 | 0.065 | 1500 |
| 7N5 | 7.5 | ±2%, ±5%, ±10% | 250 | 60 | 82 | 5.40 | 0.090 | 1400 |
| 8N2 | 8.2 | ±2%, ±5%, ±10% | 250 | 68 | 95 | 5.40 | 0.065 | 1500 |
| 8N7 | 8.7 | ±2%, ±5%, ±10% | 250 | 68 | 95 | 5.00 | 0.065 | 1500 |
| 9N0 | 9.0 | ±2%, ±5%, ±10% | 250 | 67 | 92 | 5.00 | 0.080 | 1400 |
| 9N5 | 9.5 | ±2%, ±5%, ±10% | 250 | 64 | 90 | 4.70 | 0.090 | 1400 |
| 10N | 10 | ±2%, ±5%, ±10% | 250 | 62 | 90 | 4.70 | 0.100 | 1300 |
| 11N | 11 | ±2%, ±5%, ±10% | 250 | 68 | 98 | 4.70 | 0.065 | 1400 |
| 12N | 12 | ±2%, ±5%, ±10% | 250 | 66 | 100 | 4.40 | 0.100 | 1200 |
| 13N | 13 | ±2%, ±5%, ±10% | 250 | 62 | 82 | 4.20 | 0.150 | 870 |
| 15N | 15 | ±2%, ±5%, ±10% | 250 | 62 | 85 | 3.90 | 0.110 | 1100 |
| 16N | 16 | ±2%, ±5%, ±10% | 250 | 57 | 77 | 3.70 | 0.140 | 850 |
| 18N | 18 | ±2%, ±5%, ±10% | 250 | 58 | 74 | 3.55 | 0.120 | 900 |
| 19N | 19 | ±2%, ±5%, ±10% | 250 | 61 | 88 | 3.50 | 0.145 | 850 |
| 20N | 20 | ±2%, ±5%, ±10% | 250 | 58 | 76 | 3.50 | 0.185 | 780 |
| 21N | 21 | ±2%, ±5%, ±10% | 250 | 48 | 62 | 1.70 | 0.460 | 450 |
| 22N | 22 | ±2%, ±5%, ±10% | 250 | 60 | 74 | 3.30 | 0.160 | 800 |
| 23N | 23 | ±2%, ±5%, ±10% | 250 | 60 | 77 | 3.30 | 0.160 | 800 |
| 24N | 24 | ±2%, ±5%, ±10% | 250 | 55 | 71 | 3.15 | 0.200 | 700 |
| 25N | 25 | ±2%, ±5%, ±10% | 250 | 57 | 73 | 3.15 | 0.250 | 600 |
| 26N | 26 | ±2%, ±5%, ±10% | 250 | 56 | 74 | 3.15 | 0.285 | 450 |
| 27N | 27 | ±2%, ±5%, ±10% | 250 | 62 | 86 | 3.20 | 0.320 | 450 |
| 30N | 30 | ±2%, ±5%, ±10% | 250 | 61 | 87 | 2.90 | 0.330 | 450 |
| 33N | 33 | ±2%, ±5%, ±10% | 250 | 61 | 80 | 2.80 | 0.330 | 490 |
| 36N | 36 | ±2%, ±5%, ±10% | 250 | 59 | 76 | 2.80 | 0.380 | 480 |
| 37N | 37 | ±2%, ±5%, ±10% | 250 | 57 | 72 | 2.70 | 0.460 | 470 |
| 39N | 39 | ±2%, ±5%, ±10% | 250 | 56 | 84 | 2.60 | 0.430 | 450 |
| 40N | 40 | ±2%, ±5%, ±10% | 250 | 56 | 75 | 2.60 | 0.430 | 450 |
| 43N | 43 | ±2%, ±5%, ±10% | 250 | 52 | 68 | 2.50 | 0.520 | 450 |
| 47N | 47 | ±2%, ±5%, ±10% | 250 | 48 | 62 | 2.40 | 0.580 | 420 |
| 51N | 51 | ±2%, ±5%, ±10% | 250 | 52 | 59 | 2.30 | 0.700 | 360 |

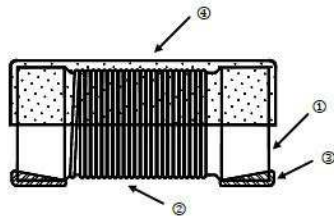
Soldering condition



IR Reflow Soldering

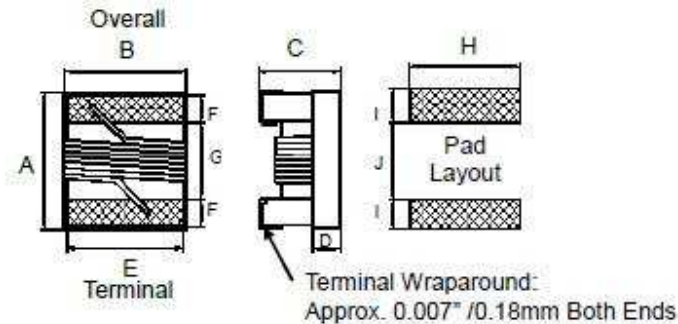
- (1) Time of IR reflow soldering at maximum temperature point 260°C 10s

Construction



| | |
|----------------|-------------|
| ① Ceramic Core | ③ Electrode |
| ② Magnet Wire | ④ UV Glue |

Dimensions



| Type | Size | A max | B max | C max | D max | E | F | G | H | I | J | Weight (g) (1000 pcs) |
|--------|------|-------|-------|-------|-------|------|------|------|------|------|------|-----------------------|
| 36501E | 0402 | 1.27 | 0.76 | 0.61 | 0.15 | 0.51 | 0.23 | 0.56 | 0.66 | 0.50 | 0.46 | 0.8 |
| 36501J | 0603 | 1.80 | 1.12 | 1.02 | 0.38 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 | 3.46 |
| 36502A | 0805 | 2.29 | 1.73 | 1.52 | 0.51 | 1.27 | 0.44 | 1.02 | 1.78 | 1.02 | 0.76 | 12.13 |
| 36502C | 1008 | 2.92 | 2.79 | 2.13 | 0.65 | 2.03 | 0.51 | 1.52 | 2.54 | 1.02 | 1.27 | 30.73 |
| 36521J | 0603 | 1.80 | 1.12 | 1.02 | 0.38 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 | 3.46 |
| 36531E | 0402 | 1.27 | 0.76 | 0.61 | 0.15 | 0.51 | 0.23 | 0.56 | 0.66 | 0.50 | 0.46 | 0.8 |
| 36531J | 0603 | 1.80 | 1.12 | 1.02 | 0.38 | 0.76 | 0.33 | 0.86 | 1.02 | 0.64 | 0.64 | 3.46 |
| 36532A | 0805 | 2.29 | 1.73 | 1.52 | 0.51 | 1.27 | 0.44 | 1.02 | 1.78 | 1.02 | 0.76 | 12.13 |
| 36532C | 1008 | 2.92 | 2.79 | 2.03 | 0.65 | 2.03 | 0.51 | 1.52 | 2.54 | 1.02 | 1.27 | 30.73 |

Environmental Characteristics

Electrical Performance Test

| Item | Requirement | Test Method |
|-----------------------|---|--|
| Inductance | Refer to standard electrical characteristic spec. | HP4286 / E4982A |
| Q | | HP4286 / E4982A |
| SRF | | HP4286 / E4982A |
| DC Resistance (RDC) | | Micro-Ohm meter (Gom 801G) / E4982A |
| Rated Current (IDC) | | Applied the current to coils, the temperature of coil increases $\Delta T 15^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) |
| Over Load | Inductors shall have no evidence of electrical and mechanical damage | Applied 2 times of rated allowed DC current to inductor for a period of 5 minutes |
| Withstanding Voltage | Inductors shall bear no evidence of electrical and mechanical damage. | AC voltage of 500 VAC applied between inductors terminal and case for 1 min. |
| Insulation Resistance | 1000M ohm min. | 100 VDC applied between inductor terminal and case |

Mechanical Performance Test

| Item | Requirement | Test Method |
|--------------------------------|--|---|
| Vibration | Appearance: No damage L change: within $\pm 5\%$ Q change: within $\pm 10\%$ | Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1min Amplitude: 1.5mm Time: 2 hrs for each axis (X, Y & Z), total 6 hrs |
| Resistance to Soldering Heat | | Solder Temperature: $260 \pm 5^{\circ}\text{C}$ Immersion Time: 10 ± 2 seconds |
| Component Adhesion (Push Test) | 1 lbs. For 0402 2 lbs. For 0603 3 lbs. For the rest | The device should be soldered (260 ± 5 for 10 seconds) to a tinned copper substrate. A dynamiter force gauge should be applied to the side of the component. The device must withstand a minimum force of 2 or 4 pounds without a failure of adhesion on termination |
| Drop | No damage | Dropping chip by each side and each corner. Drop 10 times in total Drop height: 100cm Drop weight: 125g |
| Solderability | 90% covered with solder | Inductor shall be dipped in a melted solder bath at 245 ± 5 for 3 seconds |
| Resistance to Solvent | No damage on appearance and marking | MIL-STD-202, Method 215 |

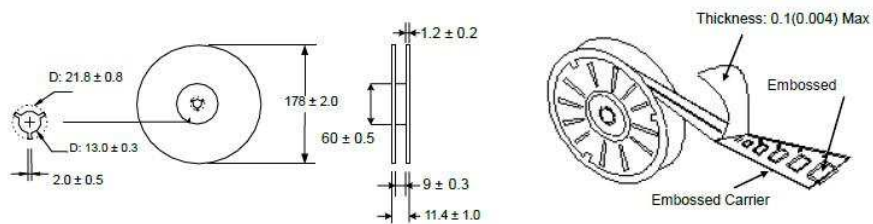
Climatic Test

| Item | Requirement | Test Method | | | | | | | | | | | | | | | |
|----------------------------|---|--|-------------|------------------|-------------|---|-------------|----|---|------------|----|---|-------------|----|---|------------|----|
| Temperature Characteristic | Appearance: No damage L change: within $\pm 10\%$ Q change: within $\pm 20\%$ | -40 ~ +125 °C | | | | | | | | | | | | | | | |
| Humidity | | Temperature: 40 ± 2 °C Relative Humidity: 90~95% Time: 96 ± 2 hrs Measured after exposure in the room condition for 2hrs | | | | | | | | | | | | | | | |
| Low Temperature Storage | | Temperature: -40 ± 2 °C Time: 96 ± 2 hrs Inductors are tested after 1 hour at room temperature | | | | | | | | | | | | | | | |
| Thermal Shock | | One Cycle: <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25± 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25± 2</td> <td>15</td> </tr> <tr> <td>3</td> <td>125± 3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25± 2</td> <td>15</td> </tr> </tbody> </table> Total 5 cycles | Step | Temperature (°C) | Time (min.) | 1 | -25 ± 3 | 30 | 2 | 25 ± 2 | 15 | 3 | 125 ± 3 | 30 | 4 | 25 ± 2 | 15 |
| Step | | Temperature (°C) | Time (min.) | | | | | | | | | | | | | | |
| 1 | | -25 ± 3 | 30 | | | | | | | | | | | | | | |
| 2 | | 25 ± 2 | 15 | | | | | | | | | | | | | | |
| 3 | 125 ± 3 | 30 | | | | | | | | | | | | | | | |
| 4 | 25 ± 2 | 15 | | | | | | | | | | | | | | | |
| High Temperature Storage | Temperature: 125 ± 2 °C Time: 96 ± 2 hrs Measured after exposure in the room condition for 1 hour | | | | | | | | | | | | | | | | |
| High Temperature Load Life | Temperature: 85 ± 2 °C Time: 1000 ± 12 hrs Load: Allowed DC current | | | | | | | | | | | | | | | | |
| Damp Heat with Load | Temperature: 40 ± 2 °C Relative Humidity: 90~95% Time: 1000 ± 12 hrs Load: Allowed DC current | | | | | | | | | | | | | | | | |

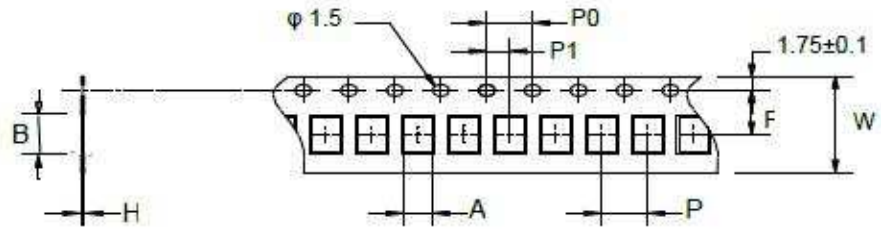
Storage Temperature: 15~28 °C; Humidity < 80% RH

Packaging

Reel dimensions

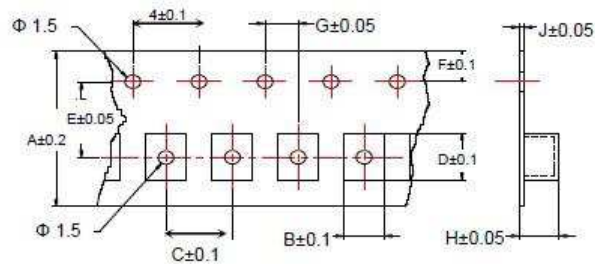


Paper Tape Specification and Packaging Quantity



| Type | A | B | H | F | P | P0 | P1 | W | Reel (EA) |
|------|------|------|------|------|------|------|------|------|-----------|
| 0402 | 0.81 | 1.23 | 0.73 | 3.50 | 2.00 | 4.00 | 2.00 | 8.00 | 4,000 |
| 0603 | 1.35 | 1.95 | 0.95 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 | 4,000 |

Embossed Plastic Tape Specification and Packaging Quantity



| Type | A | B | C | D | E | F | G | H | J | Reel (EA) |
|------|---|------|---|------|-----|------|---|------|------|-----------|
| 0805 | 8 | 1.85 | 4 | 2.30 | 3.5 | 1.75 | 2 | 1.45 | 0.23 | 2,000 |
| 1008 | 8 | 2.70 | 4 | 2.80 | 3.5 | 1.75 | 2 | 2.00 | 0.23 | 2,000 |

How To Order

| 3650 | 1J | 7N5 | J | TDG |
|---------------------|-----------|---|------------|--|
| Common Part | Case size | Inductance Code | Tolerance | Packaging |
| 3650 – Standard | 1E – 0402 | See relevant table for inductance value | G – ±2% | TDG – 2000 |
| 3652 – High Current | 1J – 0603 | | J – ±5% | Pieces per reel |
| 3653 – High Q | 2A – 0805 | | K – ±10% | TE – 4000 Pieces per reel (1E & 1J only) |
| | 2C – 1008 | | M – ±20% | |
| | | | D – ±0.2nH | |
| | | | C – ±0.5nH | |

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