

MOX-0603CS



Ceramic Surface Mount Wire Wound Chip Inductors

MoxiE's MOX-0603CS series of surface mount chip inductors are widely used in PDA's, notebooks, LCD televisions and cable modems. The wire wound design features a higher self resonate frequency and a better Q factor that provides stable performance. A precision tolerance of 2% is available.



Features:

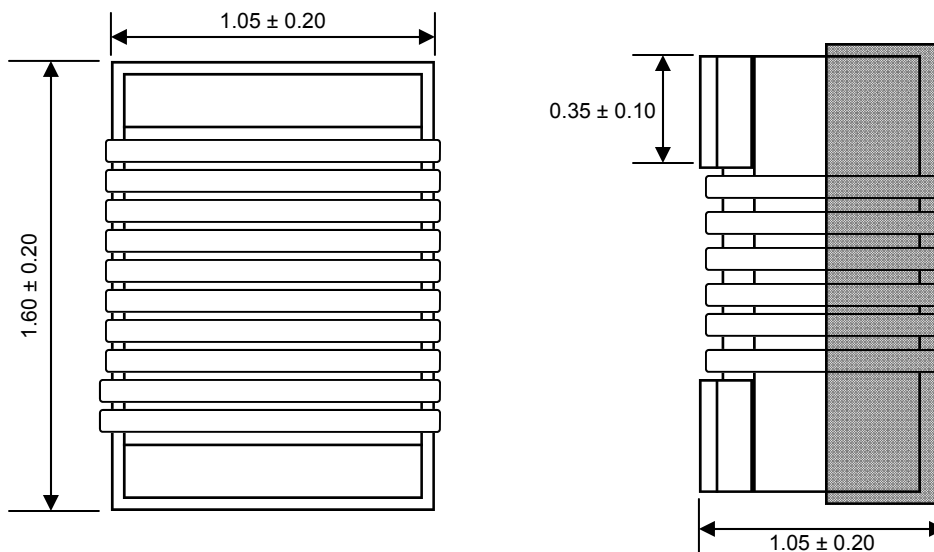
- Low cost.
- Operating temperature: -40°C to +125°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- Wide range of inductance values to accommodate various designs.



NOTES

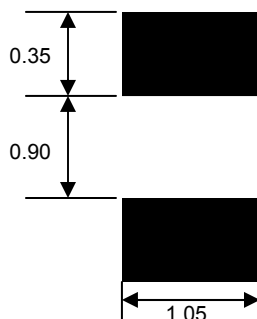


MECHANICAL DIMENSIONS





LANDING PATTERN



ELECTRICAL SPECIFICATIONS

| MoxiE Part Number | Inductance (nH) | Tolerance | Q (900 MHz) | | Test Frequency | SRF Minimum (MHz) | RDC Max. (Ω) | IDC Max. (mA) |
|-------------------|-----------------|-----------|-------------|---------|----------------|-------------------|-----------------------|---------------|
| | | | Minimum | Typical | | | | |
| MOX-0603CS-2N0 | 2.0 | B,S | 16 | 31 | 250 | 6900 | 0.08 | 700 |
| MOX-0603CS-3N9 | 3.9 | B,S | 22 | 51 | 250 | 6900 | 0.08 | 700 |
| MOX-0603CS-4N7 | 4.7 | B,S | 20 | 47 | 250 | 5800 | 0.11 | 700 |
| MOX-0603CS-6N8 | 6.8 | B,J,K | 30 | 63 | 250 | 5800 | 0.11 | 700 |
| MOX-0603CS-8N2 | 8.2 | B,J,K | 30 | 72 | 250 | 4600 | 0.10 | 700 |
| MOX-0603CS-10N | 10 | G,J,K | 30 | 66 | 250 | 4800 | 0.13 | 700 |
| MOX-0603CS-12N | 12 | G,J,K | 35 | 72 | 250 | 4000 | 0.13 | 700 |
| MOX-0603CS-15N | 15 | G,J,K | 35 | 68 | 250 | 4000 | 0.17 | 700 |
| MOX-0603CS-18N | 18 | G,J,K | 38 | 77 | 250 | 3100 | 0.17 | 700 |
| MOX-0603CS-22N | 22 | G,J,K | 38 | 70 | 250 | 3000 | 0.22 | 700 |
| MOX-0603CS-27N | 27 | G,J,K | 40 | 75 | 250 | 2800 | 0.22 | 600 |
| MOX-0603CS-33N | 33 | G,J,K | 43 | 78 | 250 | 2300 | 0.22 | 600 |
| MOX-0603CS-39N | 39 | G,J,K | 43 | 66 | 250 | 2200 | 0.25 | 600 |
| MOX-0603CS-47N | 47 | G,J,K | 40 | 65 | 200 | 2000 | 0.28 | 600 |
| MOX-0603CS-56N | 56 | G,J,K | 40 | 66 | 200 | 1900 | 0.31 | 600 |
| MOX-0603CS-68N | 68 | G,J,K | 40 | 57 | 200 | 1700 | 0.34 | 600 |
| MOX-0603CS-72N | 72 | G,J,K | 35 | 60 | 150 | 1700 | 0.49 | 400 |
| MOX-0603CS-82N | 82 | G,J,K | 35 | 58 | 150 | 1700 | 0.54 | 400 |
| MOX-0603CS-R10 | 100 | G,J,K | 35 | 51 | 150 | 1400 | 0.63 | 400 |
| MOX-0603CS-R12 | 120 | G,J,K | 35 | 45 | 150 | 1300 | 0.65 | 300 |
| MOX-0603CS-R15 | 150 | G,J,K | 35 | 33 | 150 | 1000 | 0.92 | 280 |
| MOX-0603CS-R18 | 180 | G,J,K | 30 | 26 | 100 | 1000 | 1.25 | 240 |
| MOX-0603CS-R22 | 220 | G,J,K | 30 | 23 | 100 | 1000 | 1.70 | 200 |
| MOX-0603CS-R27 | 270 | G,J,K | 30 | 10 | 100 | 1000 | 1.80 | 170 |



MOX-0603CS ENGINEERING NOTES

- Measuring Frequency (L) 100 kHz
- Available Tolerances: B = ± 0.2 nH, S = ± 0.3 nH, G = $\pm 2\%$, J = 5%, K = $\pm 10\%$
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- RoHS Compliant.