

MOX-MCIH-1812

MoxiE[®]
INDUCTOR CORPORATION

High Current Wire Wound Molded Chip Inductors

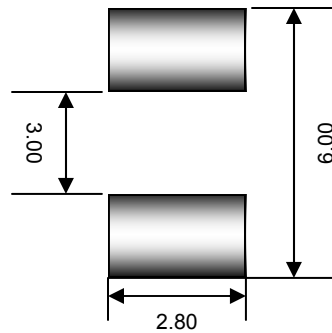
MoxiE's MOX-MCIH-1812 series of surface mount molded chip inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras. The MCIH series provides a wide range of inductance values and an excellent Q factor.

Features:

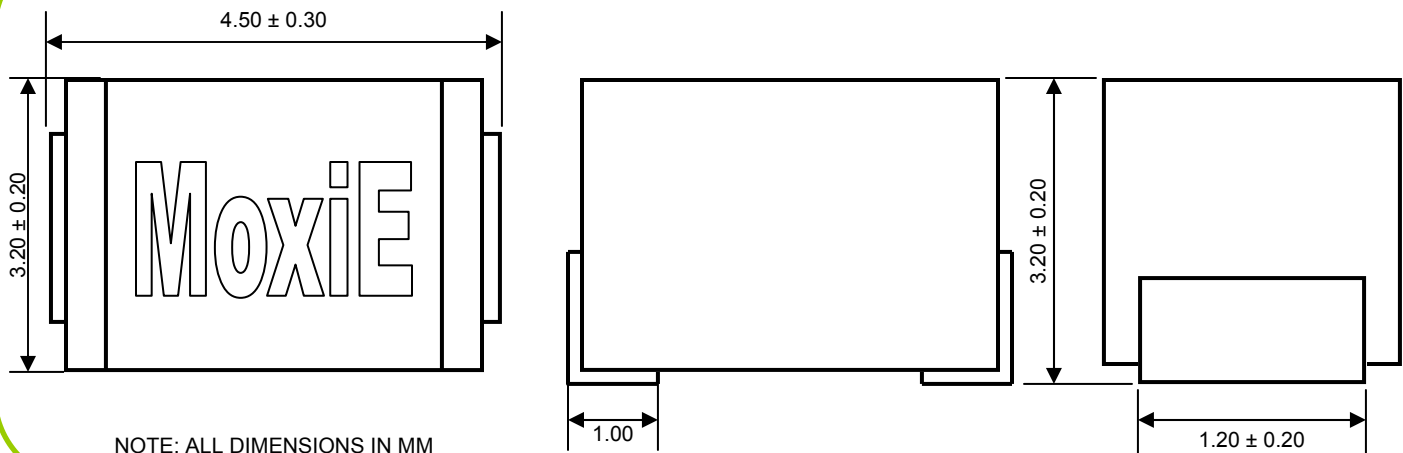
- Operating temperature: -40°C to +105°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- JIS/EIA dimensions, high reliability & easy surface mount assembly.
- Tape & reel packaging (500 pieces per reel)



LANDING PATTERN



MECHANICAL DIMENSIONS



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MOX-MCIH-1812



ELECTRICAL SPECIFICATIONS

| MOXIE PART NUMBER | INDUCTANCE (μH) | PERCENT TOLERANCE | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MIN. (MHz) | RDC MAX. (Ω) | IDC MAX. (mA) |
|--------------------|-----------------|-------------------|-----------|----------------------|----------------|--------------|---------------|
| MOX-MCIH-1812-1R0K | 1.0 | K | 10 | 7.96 | 180 | 0.11 | 1050 |
| MOX-MCIH-1812-1R2K | 1.2 | K | 10 | 7.96 | 160 | 0.12 | 1000 |
| MOX-MCIH-1812-1R5K | 1.5 | K | 10 | 7.96 | 130 | 0.15 | 950 |
| MOX-MCIH-1812-1R8K | 1.8 | K | 10 | 7.96 | 100 | 0.16 | 900 |
| MOX-MCIH-1812-2R2K | 2.2 | K | 10 | 7.96 | 80.0 | 0.18 | 850 |
| MOX-MCIH-1812-2R7K | 2.7 | K | 10 | 7.96 | 60.0 | 0.20 | 800 |
| MOX-MCIH-1812-3R3K | 3.3 | K | 10 | 7.96 | 45.0 | 0.22 | 750 |
| MOX-MCIH-1812-3R9K | 3.9 | K | 10 | 7.96 | 40.0 | 0.24 | 700 |
| MOX-MCIH-1812-4R7K | 4.7 | K | 10 | 7.96 | 35.0 | 0.27 | 650 |
| MOX-MCIH-1812-5R6K | 5.6 | K | 10 | 7.96 | 30.0 | 0.30 | 650 |
| MOX-MCIH-1812-6R8K | 6.8 | K | 10 | 7.96 | 28.0 | 0.35 | 600 |
| MOX-MCIH-1812-8R2K | 8.2 | K | 10 | 7.96 | 25.0 | 0.40 | 600 |
| MOX-MCIH-1812-100K | 10 | K | 10 | 2.52 | 22.0 | 0.50 | 550 |
| MOX-MCIH-1812-120K | 12 | K | 10 | 2.52 | 21.0 | 0.60 | 500 |
| MOX-MCIH-1812-150K | 15 | K | 10 | 2.52 | 20.0 | 0.70 | 450 |
| MOX-MCIH-1812-180K | 18 | K | 10 | 2.52 | 19.0 | 0.80 | 400 |
| MOX-MCIH-1812-220K | 22 | K | 10 | 2.52 | 18.0 | 0.90 | 370 |
| MOX-MCIH-1812-270K | 27 | K | 10 | 2.52 | 16.0 | 1.20 | 330 |
| MOX-MCIH-1812-330K | 33 | K | 10 | 2.52 | 14.0 | 1.40 | 300 |
| MOX-MCIH-1812-390K | 39 | K | 10 | 2.52 | 12.0 | 1.60 | 280 |
| MOX-MCIH-1812-470K | 47 | K | 10 | 2.52 | 11.5 | 1.90 | 260 |
| MOX-MCIH-1812-560K | 56 | K | 10 | 2.52 | 11.0 | 2.20 | 240 |
| MOX-MCIH-1812-680K | 68 | K | 10 | 2.52 | 10.0 | 2.60 | 220 |
| MOX-MCIH-1812-820K | 82 | K | 10 | 2.52 | 9.0 | 3.50 | 200 |
| MOX-MCIH-1812-101K | 100 | K | 20 | 0.796 | 8.0 | 4.00 | 180 |
| MOX-MCIH-1812-121K | 120 | K | 20 | 0.796 | 7.5 | 4.50 | 160 |
| MOX-MCIH-1812-151K | 150 | K | 20 | 0.796 | 7.0 | 6.50 | 140 |
| MOX-MCIH-1812-181K | 180 | K | 20 | 0.796 | 6.5 | 7.50 | 120 |
| MOX-MCIH-1812-221K | 220 | K | 20 | 0.796 | 5.5 | 9.00 | 120 |
| MOX-MCIH-1812-271K | 270 | K | 20 | 0.796 | 5.0 | 11.00 | 100 |
| MOX-MCIH-1812-331K | 330 | K | 20 | 0.796 | 4.0 | 13.00 | 90 |



MOX-MCIH ENGINEERING NOTES

- Core: Ferrite core.
- Wire: Polyurethane Enameled Copper Wire.
- Leads: Soldered Plated.
- Enclosure: Heat Hardened Resin.
- Available Tolerances: J= 5%, K= ±10% M= ±20%
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- MoxiE Inductor Corporation specifications are subject to change without notice.