

MOX-MCIH-1812

MoxiE[®]
INDUCTOR CORPORATION

High Current Wire Wound Molded Chip Inductors

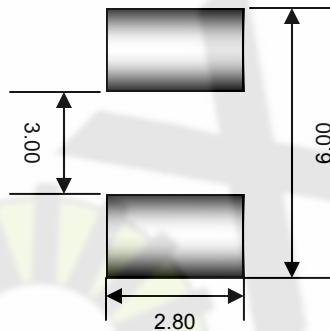
MoxiE's MOX-MCIH-1812 series of surface mount molded chip inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras. The MCIH series provides a wide range of inductance values and an excellent Q factor.

Features:

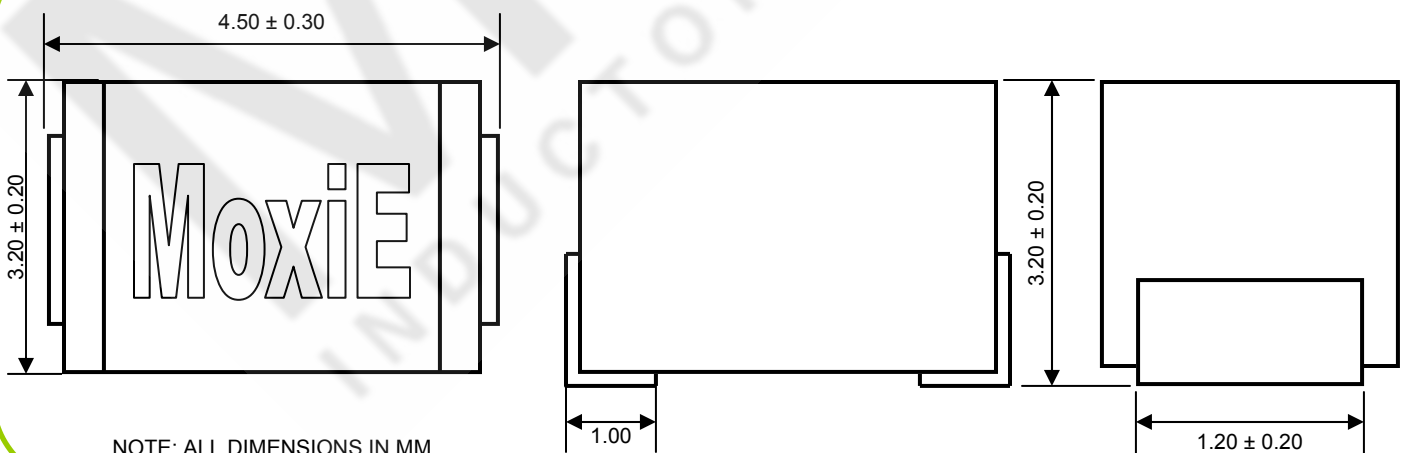
- Operating temperature: -40°C to +105°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- JIS/EIA dimensions, high reliability & easy surface mount assembly.
- Tape & reel packaging (500 pieces per reel)



LANDING PATTERN



MECHANICAL DIMENSIONS



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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.