

MOX-MCIH-1210

MoxiE[®]
INDUCTOR CORPORATION

High Current Wire Wound Molded Chip Inductors

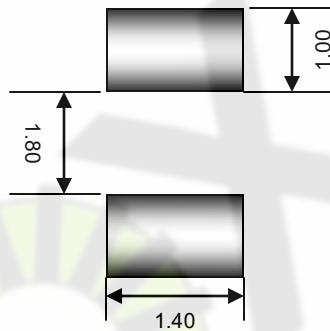
MoxiE's MOX-MCIH-1210 series of surface mount molded chip inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras. The MCIH series provides a wide range of inductance values and an excellent Q factor.

Features:

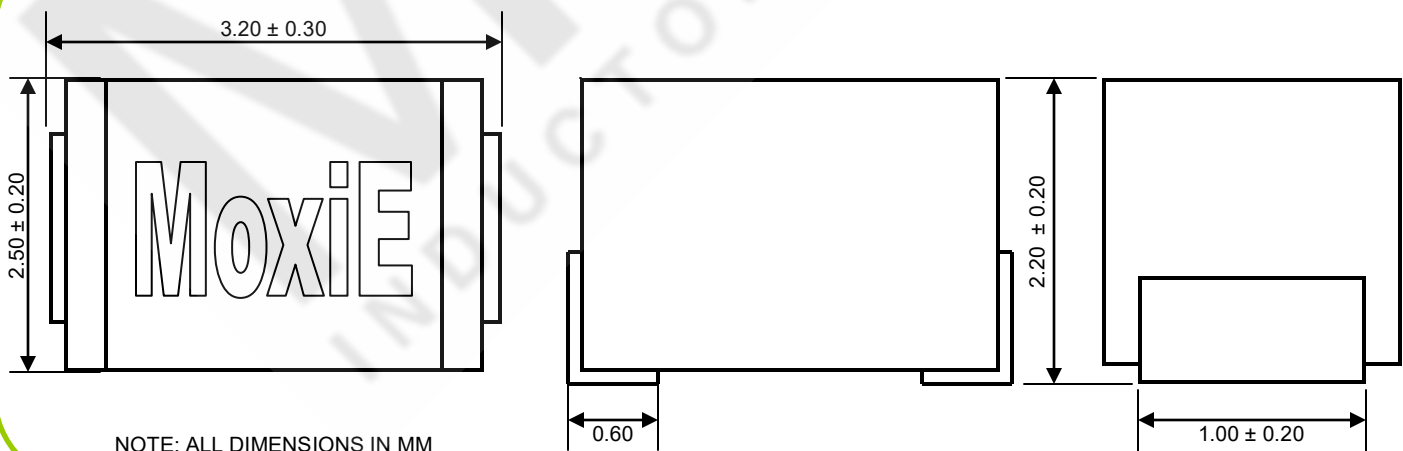
- Operating temperature: -40°C to +125°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- JIS/EIA dimensions, high reliability & easy surface mount assembly.
- Tape & reel packaging (1000 pieces per reel)



LANDING PATTERN



MECHANICAL DIMENSIONS





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-1210-R10□	0.10	K or M	30	25.0	550	0.20	1020
MOX-MCIH-1210-R12□	0.12	K or M	30	25.0	500	0.22	975
MOX-MCIH-1210-R15□	0.15	K or M	30	25.0	450	0.25	920
MOX-MCIH-1210-R18□	0.18	K or M	30	25.0	400	0.28	865
MOX-MCIH-1210-R22□	0.22	K or M	30	25.0	350	0.32	810
MOX-MCIH-1210-R27□	0.27	K or M	30	25.0	320	0.36	765
MOX-MCIH-1210-R33□	0.33	K or M	30	25.0	300	0.40	725
MOX-MCIH-1210-R39□	0.39	K or M	30	25.0	250	0.45	680
MOX-MCIH-1210-R47□	0.47	K or M	30	25.0	220	0.50	645
MOX-MCIH-1210-R56□	0.56	K or M	30	25.0	180	0.55	615
MOX-MCIH-1210-R68□	0.68	K or M	30	25.0	160	0.60	590
MOX-MCIH-1210-R82□	0.82	K or M	30	25.0	140	0.67	560
MOX-MCIH-1210-1R0□	1.0	K or M	30	7.96	120	0.70	520
MOX-MCIH-1210-1R2□	1.2	K or M	30	7.96	100	0.75	500
MOX-MCIH-1210-1R5□	1.5	K or M	30	7.96	85	0.85	470
MOX-MCIH-1210-1R8□	1.8	K or M	30	7.96	75	0.90	460
MOX-MCIH-1210-2R2□	2.2	K or M	30	7.96	70	1.00	435
MOX-MCIH-1210-2R7□	2.7	K or M	30	7.96	65	1.10	415
MOX-MCIH-1210-3R3□	3.3	K or M	30	7.96	58	1.20	395
MOX-MCIH-1210-3R9□	3.9	K or M	30	7.96	50	1.30	380
MOX-MCIH-1210-4R7□	4.7	K or M	30	7.96	45	1.50	355
MOX-MCIH-1210-5R6□	5.6	K or M	30	7.96	42	1.60	343
MOX-MCIH-1210-6R8□	6.8	K or M	30	7.96	40	1.80	325
MOX-MCIH-1210-8R2□	8.2	K or M	30	7.96	35	2.00	310
MOX-MCIH-1210-10□	10	K or M	30	7.96	30	2.10	299
MOX-MCIH-1210-12□	12	K or M	30	2.52	28	2.50	275
MOX-MCIH-1210-15□	15	K or M	30	2.52	25	2.80	260
MOX-MCIH-1210-18□	18	K or M	30	2.52	23	3.30	238
MOX-MCIH-1210-22□	22	K or M	30	2.52	20	3.70	225
MOX-MCIH-1210-27□	27	K or M	30	2.52	18	5.00	193
MOX-MCIH-1210-33□	33	K or M	30	2.52	15	5.60	183
MOX-MCIH-1210-39□	39	K or M	30	2.52	14	6.40	172
MOX-MCIH-1210-47□	47	K or M	30	2.52	13	7.00	165
MOX-MCIH-1210-56□	56	K or M	30	2.52	11	8.00	156
MOX-MCIH-1210-68□	68	K or M	30	2.52	10	9.00	144
MOX-MCIH-1210-82□	82	K or M	30	2.52	9	10.00	138
MOX-MCIH-1210-101□	100	K or M	30	2.52	8	13.00	123



MOX-MCIH ENGINEERING NOTES

- Core: Ferrite core. (Iron core for values 0.10~0.82 μH)
- Wire: Polyurethane Enameled Copper Wire.
- Leads: Soldered Plated.
- Enclosure: Heat Hardened Resin.
- Available Tolerances: K= $\pm 10\%$ M= $\pm 20\%$
- 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.