

# MOX-MCI-1008



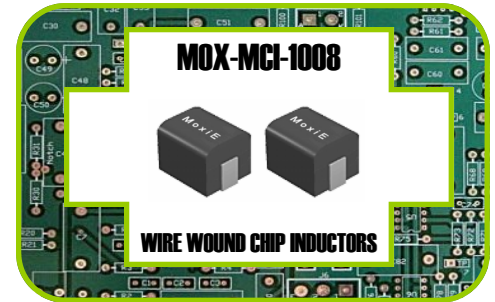
**MoxiE**  
INDUCTOR CORPORATION

## Wire Wound Molded Chip Inductors

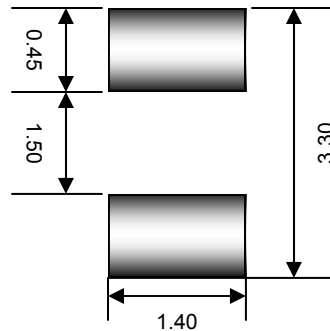
MoxiE's MOX-MCI-1008 series of surface mount molded chip inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras. The MCI series provides a wide range of inductance values and an excellent Q factor.

### Features:

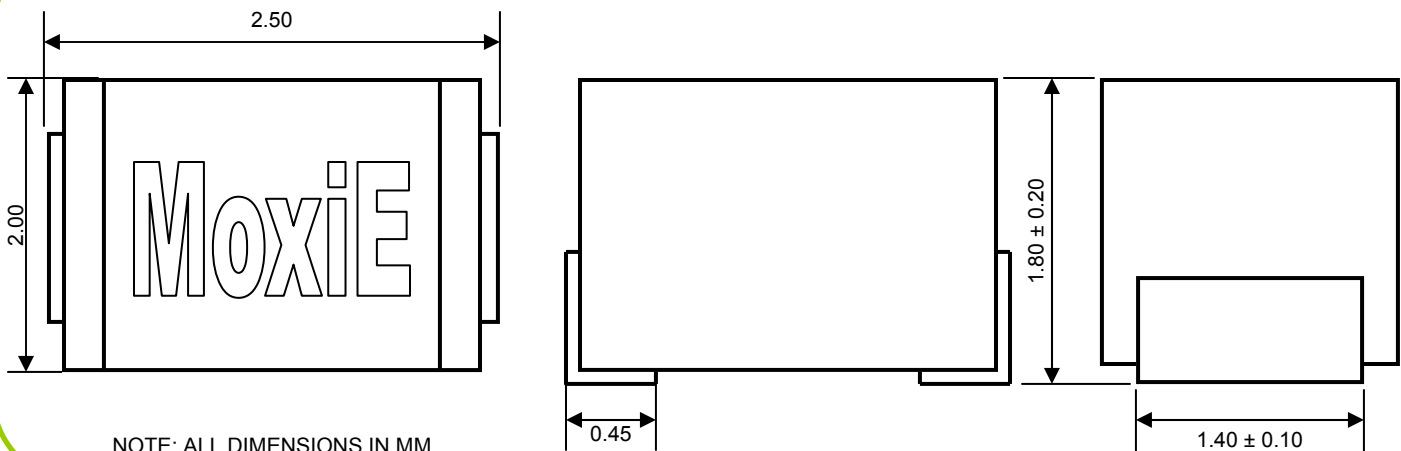
- Operating temperature: -40°C to +85°C.
- Excellent solderability & resistance to soldering heat.
- RoHS Compliant.
- JIS/EIA dimensions, high reliability & easy surface mount assembly.
- Tape & reel packaging (2,000 pieces per reel)



## LANDING PATTERN



## MECHANICAL DIMENSIONS



# MOX-MCI-1008



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
MOX-MCI-1008-R12□	0.12	K, M	30	25.2	600	0.37	520
MOX-MCI-1008-R15□	0.15	K, M	30	25.2	550	0.42	480
MOX-MCI-1008-R18□	0.18	K, M	30	25.2	500	0.46	460
MOX-MCI-1008-R22□	0.22	K, M	30	25.2	450	0.52	430
MOX-MCI-1008-R27□	0.27	K, M	30	25.2	425	0.56	420
MOX-MCI-1008-R33□	0.33	K, M	30	25.2	400	0.60	400
MOX-MCI-1008-R39□	0.39	K, M	30	25.2	375	0.65	375
MOX-MCI-1008-R47□	0.47	K, M	30	25.2	350	0.68	350
MOX-MCI-1008-R56□	0.56	K, M	30	25.2	300	0.75	325
MOX-MCI-1008-R68□	0.68	K, M	30	25.2	270	0.85	300
MOX-MCI-1008-R82□	0.82	K, M	30	25.2	250	1.00	260
MOX-MCI-1008-1R0□	1.0	J, K	30	7.96	220	1.10	245
MOX-MCI-1008-1R2□	1.2	J, K	30	7.96	180	1.20	230
MOX-MCI-1008-1R5□	1.5	J, K	30	7.96	135	1.30	220
MOX-MCI-1008-1R8□	1.8	J, K	30	7.96	100	1.40	210
MOX-MCI-1008-2R2□	2.2	J, K	30	7.96	75	1.55	200
MOX-MCI-1008-2R7□	2.7	J, K	30	7.96	55	1.70	195
MOX-MCI-1008-3R3□	3.3	J, K	30	7.96	48	1.90	185
MOX-MCI-1008-3R9□	3.9	J, K	30	7.96	43	2.10	180
MOX-MCI-1008-4R7□	4.7	J, K	25	7.96	40	2.30	175
MOX-MCI-1008-5R6□	5.6	J, K	25	7.96	36	2.50	170
MOX-MCI-1008-6R8□	6.8	J, K	25	7.96	33	2.70	165
MOX-MCI-1008-8R2□	8.2	J, K	25	7.96	30	3.05	160
MOX-MCI-1008-100□	10	J, K	25	2.52	27	3.50	155
MOX-MCI-1008-120□	12	J, K	25	2.52	23	3.80	150
MOX-MCI-1008-150□	15	J, K	25	2.52	20	4.40	140
MOX-MCI-1008-180□	18	J, K	25	2.52	18	4.80	130
MOX-MCI-1008-220□	22	J, K	25	2.52	17	5.50	125
MOX-MCI-1008-270□	27	J, K	25	2.52	16	6.30	115
MOX-MCI-1008-330□	33	J, K	25	2.52	15	7.10	110
MOX-MCI-1008-390□	39	J, K	20	2.52	14	9.50	90
MOX-MCI-1008-470□	47	J, K	20	2.52	13	11.10	80
MOX-MCI-1008-560□	56	J, K	20	2.52	12	12.10	75
MOX-MCI-1008-680□	68	J, K	20	2.52	11	15.50	75
MOX-MCI-1008-820□	82	J, K	20	2.52	11	16.60	70
MOX-MCI-1008-101□	100	J, K	15	0.796	9	21.00	60

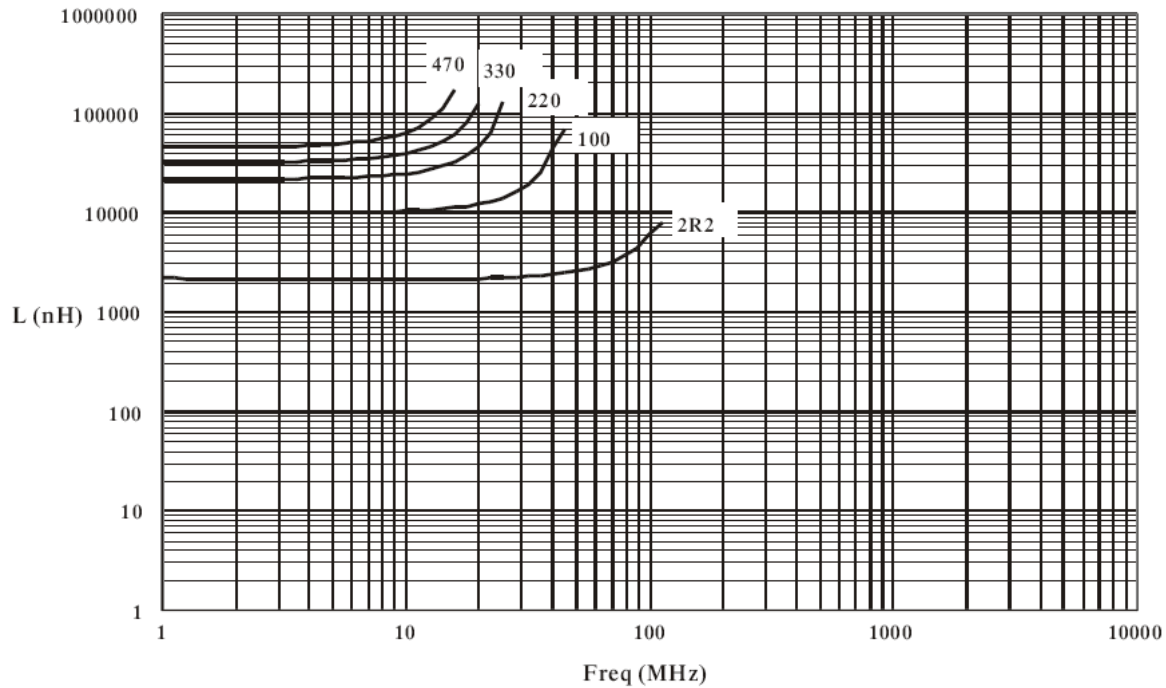


## MOX-MCI ENGINEERING NOTES

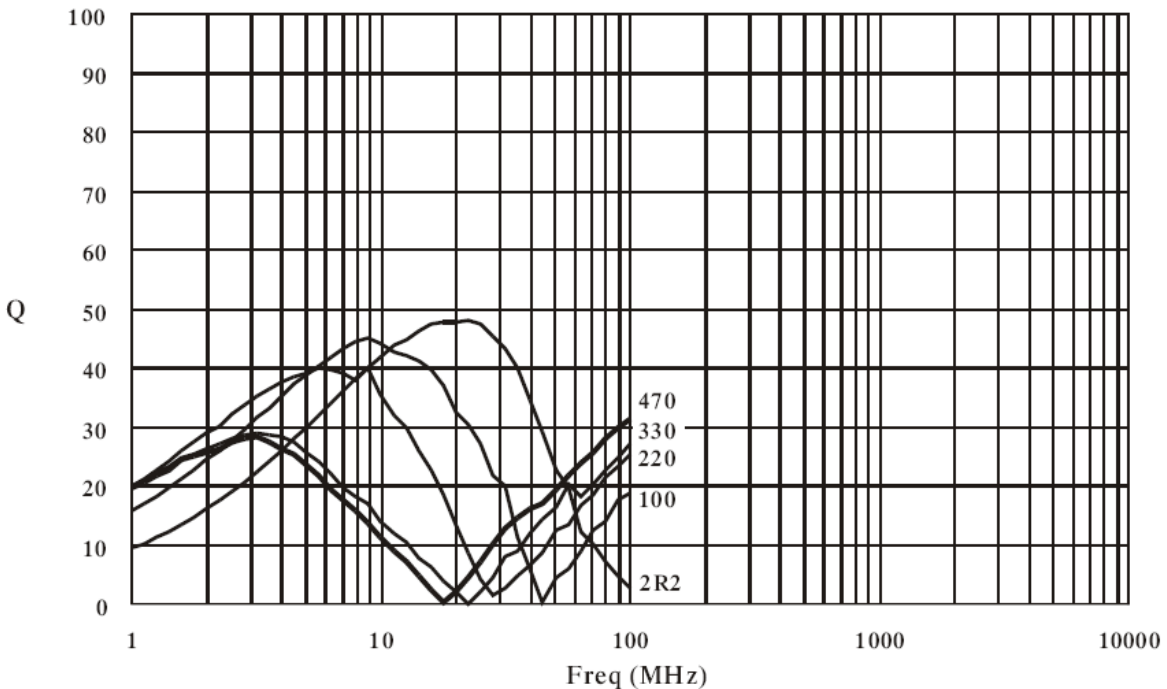
- Core: Ferrite core.
- Wire: Polyurethane Enameled Copper Wire
- Leads: Soldered Plated.
- Enclosure: Heat Hardened Resin
- Measuring Frequency (L) 100 kHz
- Available Tolerances: J= 5%, K= ±10% M= ±20%
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- RoHS Compliant.
- MoxiE Inductor Corporation specifications are subject to change without notice.



## L vs FREQUENCY PLOT



## Q vs FREQUENCY PLOT



Revision A (06-19-2008)