

# MOX-MCI-1812

**MoxiE**<sup>®</sup>  
INDUCTOR CORPORATION

## Wire Wound Molded Chip Inductors

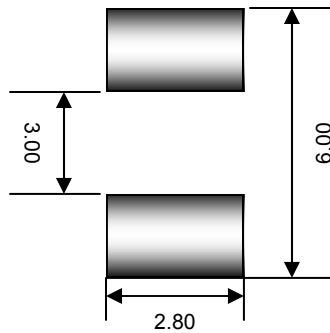
MoxiE's MOX-MCI-1812 series of surface mount molded chip inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras. The MCI series provides a wide range of inductance values and an excellent Q factor.

### Features:

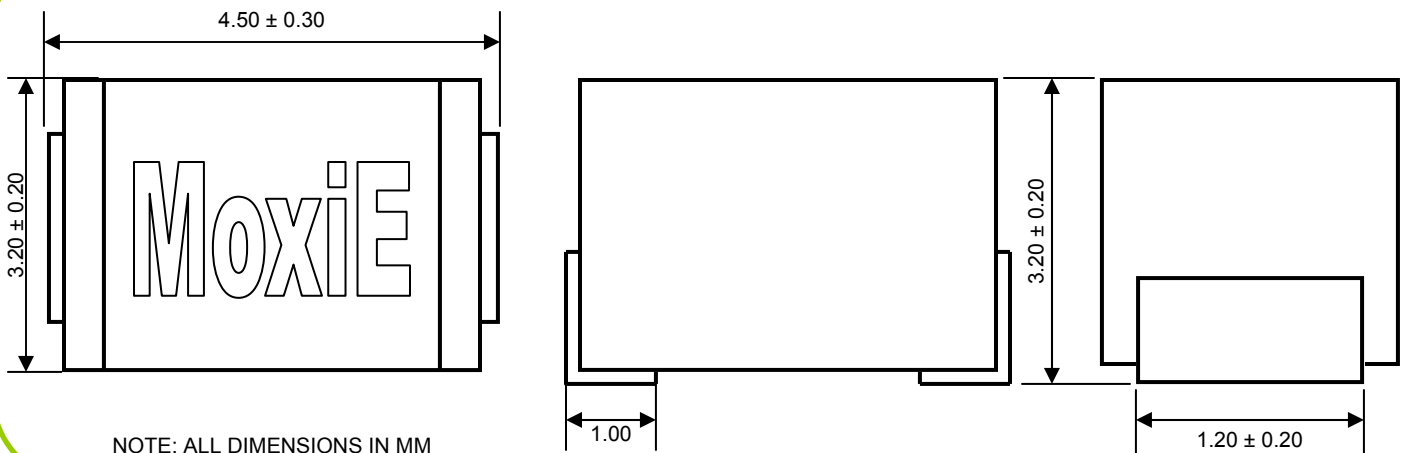
- Operating temperature: -40°C to +105°C.
- Excellent solderability & resistance to soldering heat.
- RoHS Compliant.
- JIS/EIA dimensions, high reliability & easy surface mount assembly.
- Tape & reel packaging (500 pieces per reel)



## LANDING PATTERN



## MECHANICAL DIMENSIONS



# MOX-MCI-1812



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max. (mA)
MOX-MCI-1812-R10□	0.10	M	35	25.2	300	0.18	800
MOX-MCI-1812-R12□	0.12	M	35	25.2	280	0.20	770
MOX-MCI-1812-R15□	0.15	M	35	25.2	250	0.22	730
MOX-MCI-1812-R18□	0.18	M	35	25.2	220	0.24	700
MOX-MCI-1812-R22□	0.22	M	40	25.2	200	0.25	665
MOX-MCI-1812-R27□	0.27	M	40	25.2	180	0.26	635
MOX-MCI-1812-R33□	0.33	M	40	25.2	165	0.28	605
MOX-MCI-1812-R39□	0.39	M	40	25.2	150	0.30	575
MOX-MCI-1812-R47□	0.47	M	40	25.2	145	0.32	545
MOX-MCI-1812-R56□	0.56	M	40	25.2	140	0.36	520
MOX-MCI-1812-R68□	0.68	M	40	25.2	135	0.40	500
MOX-MCI-1812-R82□	0.82	M	40	25.2	130	0.45	475
MOX-MCI-1812-1R0□	1.0	J, K	50	7.96	100	0.50	450
MOX-MCI-1812-1R2□	1.2	J, K	50	7.96	80	0.55	430
MOX-MCI-1812-1R5□	1.5	J, K	50	7.96	70	0.60	410
MOX-MCI-1812-1R8□	1.8	J, K	50	7.96	60	0.65	390
MOX-MCI-1812-2R2□	2.2	J, K	50	7.96	55	0.70	380
MOX-MCI-1812-2R7□	2.7	J, K	50	7.96	50	0.75	370
MOX-MCI-1812-3R3□	3.3	J, K	50	7.96	45	0.80	355
MOX-MCI-1812-3R9□	3.9	J, K	50	7.96	40	0.90	330
MOX-MCI-1812-4R7□	4.7	J, K	50	7.96	35	1.00	315
MOX-MCI-1812-5R6□	5.6	J, K	50	7.96	33	1.10	300
MOX-MCI-1812-6R8□	6.8	J, K	50	7.96	27	1.20	285
MOX-MCI-1812-8R2□	8.2	J, K	50	7.96	25	1.40	270
MOX-MCI-1812-100□	10	J, K	50	2.52	20	1.60	250
MOX-MCI-1812-120□	12	J, K	50	2.52	18	2.00	225
MOX-MCI-1812-150□	15	J, K	50	2.52	17	2.50	200
MOX-MCI-1812-180□	18	J, K	50	2.52	15	2.80	190
MOX-MCI-1812-220□	22	J, K	50	2.52	13	3.20	180
MOX-MCI-1812-270□	27	J, K	50	2.52	12	3.60	170
MOX-MCI-1812-330□	33	J, K	50	2.52	11	4.00	160
MOX-MCI-1812-390□	39	J, K	50	2.52	10	4.50	150
MOX-MCI-1812-470□	47	J, K	50	2.52	10	5.00	140
MOX-MCI-1812-560□	56	J, K	50	2.52	9.0	5.50	135
MOX-MCI-1812-680□	68	J, K	50	2.52	9.0	6.00	130
MOX-MCI-1812-820□	82	J, K	50	2.52	8.0	7.00	120
MOX-MCI-1812-101□	100	J, K	40	0.796	8.0	8.00	110
MOX-MCI-1812-121□	120	J, K	40	0.796	6.0	8.00	110
MOX-MCI-1812-151□	150	J, K	40	0.796	5.0	9.00	105
MOX-MCI-1812-181□	180	J, K	40	0.796	5.0	9.50	102
MOX-MCI-1812-221□	220	J, K	40	0.796	4.0	10.00	100
MOX-MCI-1812-271□	270	J, K	40	0.796	4.0	12.00	92
MOX-MCI-1812-331□	330	J, K	40	0.796	3.5	14.00	85
MOX-MCI-1812-391□	390	J, K	40	0.796	3.0	18.00	80
MOX-MCI-1812-471□	470	J, K	40	0.796	3.0	26.00	62
MOX-MCI-1812-561□	560	J, K	30	0.796	3.0	30.00	50
MOX-MCI-1812-681□	680	J, K	30	0.796	3.0	30.00	50
MOX-MCI-1812-821□	820	J, K	30	0.796	2.5	35.00	30
MOX-MCI-1812-102□	1000	J, K	20	0.252	2.5	40.00	30



## MOX-MCI 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.