

MOX-LPCI-SERIES

MoxiE[®]
INDUCTOR CORPORATION

Miniature Surface Mount Power Inductors

MoxiE's MOX-LPCI series of surface mount power inductors are widely used in cable modems, notebooks, LCD televisions and digital cameras.

Features:

- Low cost.
- Available in 0805 & 1210 packages.
- High reliability & easy surface mount assembly.
- Operating temperature: -40°C to +85°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.

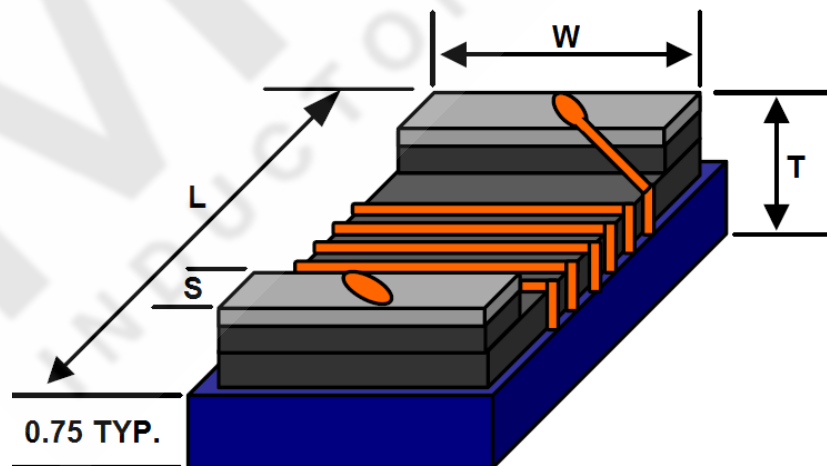


PART NUMBERS

MOXIE PART NUMBER	L	W	T	S
MOX-LPCI-0805	2.00 ± 0.20	1.25 ± 0.20	1.20 MAX.	0.50 ± 0.10
MOX-LPCI-1210	3.20 ± 0.20	2.50 ± 0.20	1.20 MAX.	0.50 ± 0.10



MECHANICAL DIMENSIONS





ELECTRICAL SPECIFICATIONS

MoxiE Part Number	L (μH)	Q Min.	L, Q Test Frequency kHz/MHz	S.R.F (MHz) Min.	DCR (Ω) Max.	I _{sat} (mA) Max.	I _{dc} (mA) Max.
MOX-LPCI-0805-1R0□	1.0	10	100 / 1	400	0.35	800	750
MOX-LPCI-0805-1R2□	1.2	10	100 / 1	350	0.40	750	700
MOX-LPCI-0805-1R5□	1.5	10	100 / 1	300	0.45	720	680
MOX-LPCI-0805-1R8□	1.8	10	100 / 1	250	0.60	680	650
MOX-LPCI-0805-2R2□	2.2	10	100 / 1	180	0.65	650	630
MOX-LPCI-0805-2R7□	2.7	10	100 / 1	120	0.75	630	600
MOX-LPCI-0805-3R3□	3.3	10	100 / 1	90	0.85	600	570
MOX-LPCI-0805-3R9□	3.9	10	100 / 1	80	0.90	550	500
MOX-LPCI-0805-4R7□	4.7	10	100 / 1	70	1.10	450	430
MOX-LPCI-0805-5R6□	5.6	10	100 / 1	60	1.25	430	400
MOX-LPCI-0805-6R8□	6.8	10	100 / 1	50	1.35	380	360
MOX-LPCI-0805-8R2□	8.2	10	100 / 1	45	1.50	360	340
MOX-LPCI-0805-100□	10	10	100 / 1	40	2.00	340	310
MOX-LPCI-0805-150□	15	10	100 / 1	30	2.50	300	180
MOX-LPCI-0805-180□	18	10	100 / 1	25	2.90	250	170
MOX-LPCI-0805-220□	22	10	100 / 1	20	3.20	200	150



TEST DATA

Please specify the inductance tolerance code (K = ±10% or M = ±20%)

- Packaging: tape & reel (2,000 pieces per reel)
- Inductance is measured in HP-4284A precision LCR meter with a SMD-A fixture.
- Q factor is measured in HP-4284A precision LCR meter with a SMD-A fixture.
- SRF is measured in Agilent E-5071B network analyzer.
- RDC is measured in HP-4338B milliohm meter.
- For 25°C rise.
- Unit Weight : 0.0107g (ref.)
- MoxiE Inductor Corporation specifications are subject to change without notice.



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	L (μH)	Q Min.	L, Q Test Frequency kHz/MHz	S.R.F (MHz) Min.	DCR (Ω) Max.	Isat (mA) Max.	Idc (mA) Max.
MOX-LPCI-1210-2R2□	2.2	10	100 / 1	150	0.50	850	800
MOX-LPCI-1210-2R7□	2.7	10	100 / 1	120	0.60	750	700
MOX-LPCI-1210-3R3□	3.3	10	100 / 1	100	0.75	700	650
MOX-LPCI-1210-3R9□	3.9	10	100 / 1	90	0.80	650	600
MOX-LPCI-1210-4R7□	4.7	10	100 / 1	80	0.95	600	550
MOX-LPCI-1210-5R6□	5.6	10	100 / 1	65	1.00	550	520
MOX-LPCI-1210-6R8□	6.8	10	100 / 1	55	1.10	500	480
MOX-LPCI-1210-8R2□	8.2	10	100 / 1	40	1.30	480	450
MOX-LPCI-1210-100□	10	10	100 / 1	36	1.50	450	430
MOX-LPCI-1210-120□	12	10	100 / 1	34	1.60	420	400
MOX-LPCI-1210-150□	15	10	100 / 1	32	1.90	400	350
MOX-LPCI-1210-180□	18	10	100 / 1	30	2.90	350	320
MOX-LPCI-1210-220□	22	10	100 / 1	30	3.50	320	300
MOX-LPCI-1210-270□	27	10	100 / 1	25	4.20	280	250
MOX-LPCI-1210-330□	33	10	100 / 1	20	5.00	250	220



TEST DATA

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- Packaging: tape & reel (2,000 pieces per reel)
- Inductance is measured in HP-4284A precision LCR meter with a SMD-A fixture.
- Q factor is measured in HP-4284A precision LCR meter with a SMD-A fixture.
- SRF is measured in Agilent E-5071B network analyzer.
- RDC is measured in HP-4338B milliohm meter.
- For 25°C rise.
- Unit Weight : 0.035g (ref.)
- MoxiE Inductor Corporation specifications are subject to change without notice.