

MOX-MOX-RLPL-0810



RADIAL LEADED POWER INDUCTORS

Features:

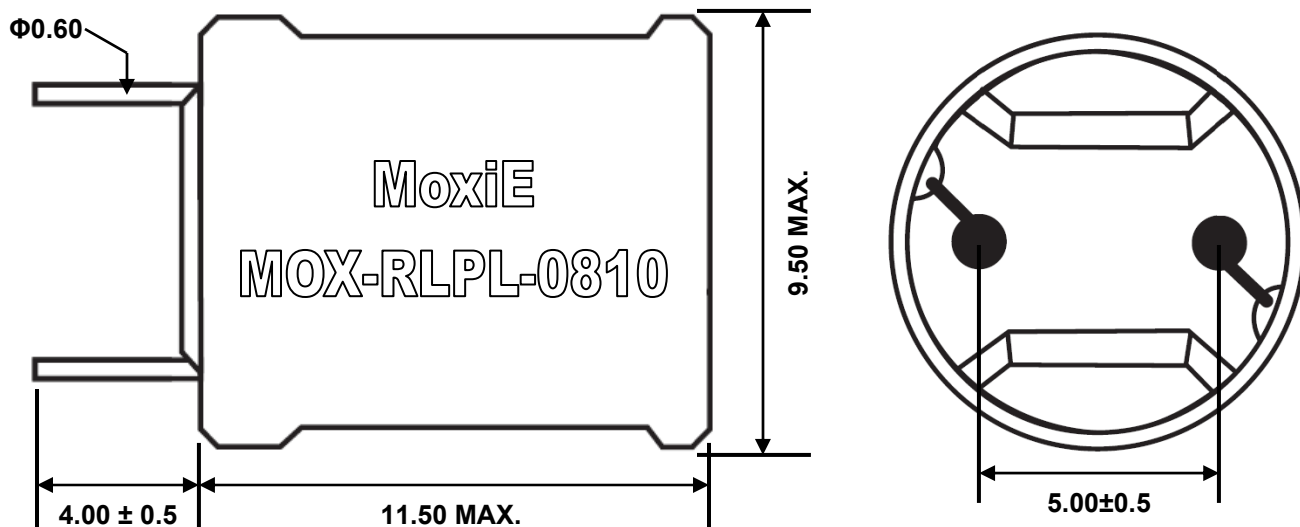
- Low cost.
- RoHS compliant.
- Operating temperature -40° to $+85^{\circ}\text{C}$.
- Compact size with large inductance.
- Coils finished with UL-VW-1 rated sleeving.
- Open magnetic construction offers high current capabilities.
- 500V isolation from winding to core.
- MoxiE custom inductance values and tolerances available.



NOTES



MECHANICAL DIMENSIONS





ELECTRICAL SPECIFICATIONS

Moxie Part Number	Inductance (±10%)	DCR (Ω) Max.	Isat (A)	SRF typical (MHz)	I _{rms} (A)	
					20°C Rise	40°C Rise
MOX-RLPL-0810-100K	10 μH	0.029	4.25	22	4.05	5.33
MOX-RLPL-0810-120K	12 μH	0.033	3.90	20	3.78	5.15
MOX-RLPL-0810-150K	15 μH	0.040	3.65	17	3.57	4.85
MOX-RLPL-0810-180K	18 μH	0.040	3.35	15	3.30	4.50
MOX-RLPL-0810-220K	22 μH	0.049	2.93	12	3.25	4.26
MOX-RLPL-0810-270K	27 μH	0.053	2.65	12	2.87	3.90
MOX-RLPL-0810-330K	33 μH	0.074	2.42	11	2.65	3.64
MOX-RLPL-0810-390K	39 μH	0.083	2.23	10.3	2.46	3.33
MOX-RLPL-0810-470K	47 μH	0.100	2.05	9.5	2.22	3.00
MOX-RLPL-0810-560K	56 μH	0.120	1.84	8.6	2.05	2.75
MOX-RLPL-0810-680K	68 μH	0.150	1.62	7.5	1.77	2.40
MOX-RLPL-0810-820K	82 μH	0.190	1.55	6.6	1.57	2.13
MOX-RLPL-0810-101K	100 μH	0.200	1.44	5.5	1.32	1.80
MOX-RLPL-0810-121K	120 μH	0.235	1.25	5.3	1.24	1.78
MOX-RLPL-0810-151K	150 μH	0.335	1.16	4.5	1.16	1.60
MOX-RLPL-0810-181K	180 μH	0.355	1.08	4.4	1.06	1.56
MOX-RLPL-0810-221K	220 μH	0.480	0.96	4.4	0.98	1.40
MOX-RLPL-0810-271K	270 μH	0.550	0.88	4.0	0.92	1.34
MOX-RLPL-0810-331K	330 μH	0.630	0.80	3.5	0.85	1.19
MOX-RLPL-0810-391K	390 μH	0.840	0.75	3.0	0.85	1.05
MOX-RLPL-0810-471K	470 μH	1.00	0.68	2.5	0.68	0.94
MOX-RLPL-0810-561K	560 μH	1.05	0.60	2.3	0.59	0.83
MOX-RLPL-0810-681K	680 μH	1.38	0.57	2.0	0.54	0.74
MOX-RLPL-0810-821K	820 μH	1.84	0.49	2.0	0.43	0.65
MOX-RLPL-0810-102K	1.0 mH	2.15	0.46	2.0	0.37	0.52
MOX-RLPL-0810-122K	1.2 mH	2.75	0.45	1.6	0.35	0.48
MOX-RLPL-0810-152K	1.5 mH	3.18	0.38	1.3	0.32	0.46
MOX-RLPL-0810-182K	1.8 mH	3.55	0.35	1.3	0.29	0.43
MOX-RLPL-0810-222K	2.2 mH	4.80	0.33	1.3	0.27	0.40
MOX-RLPL-0810-272K	2.7 mH	5.60	0.28	1.2	0.26	0.37
MOX-RLPL-0810-332K	3.3 mH	7.60	0.25	1.0	0.23	0.35
MOX-RLPL-0810-392K	3.9 mH	8.90	0.23	0.9	0.21	0.33
MOX-RLPL-0810-472K	4.7 mH	9.50	0.21	0.9	0.20	0.29
MOX-RLPL-0810-562K	5.6 mH	12.0	0.20	0.8	0.19	0.27
MOX-RLPL-0810-682K	6.8 mH	14.0	0.18	0.7	0.18	0.25
MOX-RLPL-0810-822K	8.2 mH	17.3	0.16	0.6	0.14	0.23
MOX-RLPL-0810-103K	10 mH	21.0	0.14	0.6	0.13	0.19
MOX-RLPL-0810-123K	12 mH	28.0	0.13	0.5	0.12	0.17
MOX-RLPL-0810-153K	15 mH	32.0	0.12	0.5	0.10	0.15
MOX-RLPL-0810-183K	18 mH	36.0	0.11	0.4	0.09	0.13



ENGINEERING NOTES

- **Inductance:** Tested at 100 kHz, 0.1V_{rms}, 0A_{dc} on an Agilent/HP 4284A LCR-meter or equivalent.
- **SRF:** Measured using Agilent/HP 4191A or equivalent.
- **Isat:** DC current at which the inductance drops 10% (typical) from its value without any current.
- **I_{rms} (A):** Current that causes a 40°C temperature rise from 25°C ambient.
- **Ambient temperature range:** -40°C to +85°C
- **Storage temperature range:** Component: -40°C to +85°C
- **RDC measurement:** CH502BC
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