

MOX-MOX-RLPL-0608



LEADED PEAKING POWER INDUCTORS

Features:

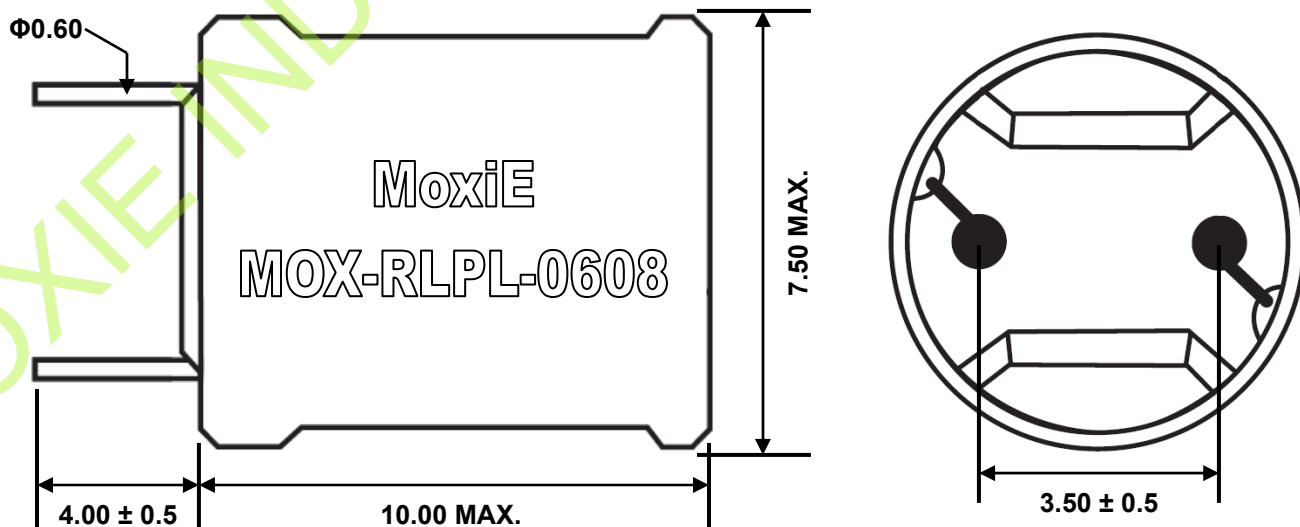
- Low cost.
- RoHS compliant.
- Operating temperature -40° to $+85^{\circ}\text{C}$.
- Compact size with large inductance.
- Coils finished with UL-VW-1 rated sleeving.
- Open magnetic construction offers high current capabilities.
- 500V isolation from winding to core.
- MoxiE custom inductance values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



NOTES



MECHANICAL DIMENSIONS





ELECTRICAL SPECIFICATIONS

Moxie Part Number	Inductance (μ H)	DCR (Ω) Max.	SRF typical (MHz)	Irms (A)	
				20°C Rise	40°C Rise
MOX-RLPL-0608-3R3M	3.30 (\pm 20%)	0.011	40	5.2	7.8
MOX-RLPL-0608-4R7M	4.70 (\pm 20%)	0.017	35	4.8	7.0
MOX-RLPL-0608-5R6M	5.60 (\pm 20%)	0.021	33	4.4	6.5
MOX-RLPL-0608-6R8M	6.80 (\pm 20%)	0.024	30	3.9	5.9
MOX-RLPL-0608-8R2M	8.20 (\pm 20%)	0.027	25	3.5	5.4
MOX-RLPL-0608-100K	10.0 (\pm 10%)	0.034	23	3.2	4.7
MOX-RLPL-0608-120K	12.0 (\pm 10%)	0.044	20	2.9	4.5
MOX-RLPL-0608-150K	15.0 (\pm 10%)	0.050	18	2.8	4.2
MOX-RLPL-0608-180K	18.0 (\pm 10%)	0.062	17	2.7	3.9
MOX-RLPL-0608-220K	22.0 (\pm 10%)	0.075	15	2.5	3.5
MOX-RLPL-0608-270K	27.0(\pm 10%)	0.085	12	2.4	3.4
MOX-RLPL-0608-330K	33.0(\pm 10%)	0.120	11	2.2	3.0
MOX-RLPL-0608-390K	39.0(\pm 10%)	0.130	10	2.0	2.8
MOX-RLPL-0608-470K	47.0(\pm 10%)	0.160	9.5	1.8	2.4
MOX-RLPL-0608-560K	56.0 (\pm 10%)	0.190	9.0	1.7	2.2
MOX-RLPL-0608-680K	68.0 (\pm 10%)	0.250	9.0	1.6	1.90
MOX-RLPL-0608-820K	82.0 (\pm 10%)	0.280	7.0	1.4	1.68
MOX-RLPL-0608-101K	100.0 (\pm 10%)	0.380	6.5	1.2	1.42
MOX-RLPL-0608-121K	120.0(\pm 10%)	0.420	5.5	1.0	1.40
MOX-RLPL-0608-151K	150.0(\pm 10%)	0.500	5.0	0.95	1.25
MOX-RLPL-0608-181K	180.0(\pm 10%)	0.650	4.7	0.89	1.19
MOX-RLPL-0608-221K	220.0(\pm 10%)	0.720	4.1	0.85	1.10
MOX-RLPL-0608-271K	270.0 (\pm 10%)	0.950	3.8	0.79	0.95
MOX-RLPL-0608-331K	330.0 (\pm 10%)	1.10	3.0	0.74	0.88
MOX-RLPL-0608-391K	390.0 (\pm 10%)	1.23	2.7	0.63	0.80
MOX-RLPL-0608-471K	470.0 (\pm 10%)	1.58	2.4	0.58	0.72
MOX-RLPL-0608-561K	560.0 (\pm 10%)	1.82	2.4	0.48	0.65
MOX-RLPL-0608-681K	680.0 (\pm 10%)	2.35	2.3	0.45	0.58
MOX-RLPL-0608-821K	820.0 (\pm 10%)	2.65	2.1	0.35	0.50
MOX-RLPL-0608-102K	1000.0 (\pm 10%)	2.95	2.1	0.32	0.43



ENGINEERING NOTES

- **Inductance:** Tested at 100 kHz, 0.1Vrms, 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.
- **Irms (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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