

# MOX-MOX-RLPL-0710



## RADIAL LEADED CHOKE COILS

### Features:

- Low cost.
- RoHS compliant.
- Operating temperature  $-40^{\circ}$  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

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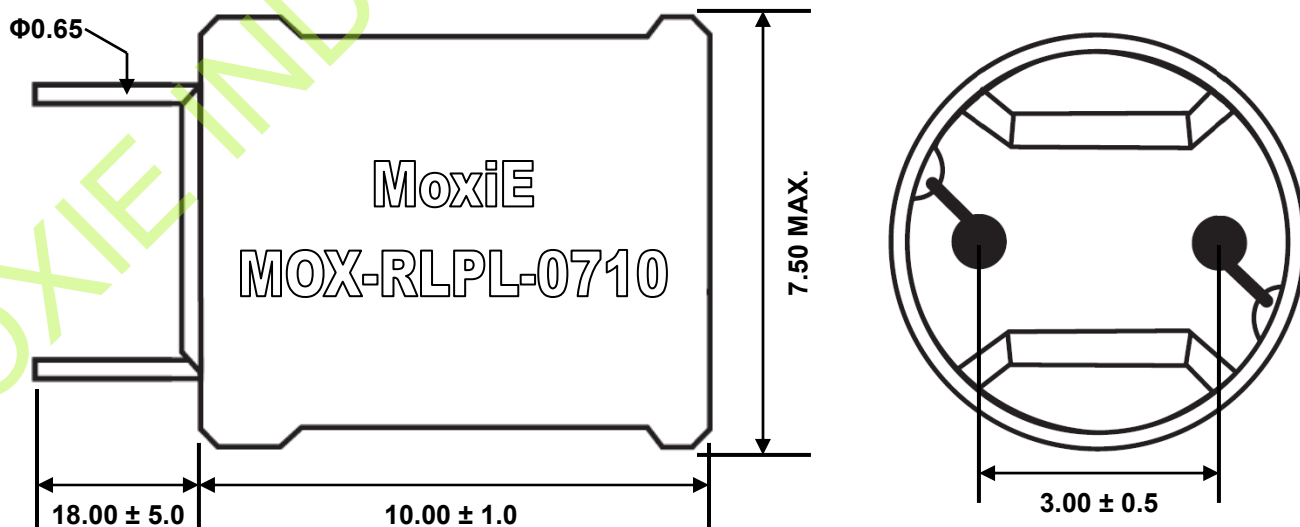
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## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance ( $\mu\text{H}$ )	Q Minimum	Test Frequency (MHz)	SRF (MHz) Minimum	RDC ( $\Omega$ ) Maximum	IDC (mA) Maximum
MOX-RLPL-0710-470	47 $\pm$ 10%	30	2.52	6.00	0.40	460
MOX-RLPL-0710-560	56 $\pm$ 10%	30	2.52	5.50	0.45	410
MOX-RLPL-0710-680	68 $\pm$ 10%	30	2.52	5.00	0.50	370
MOX-RLPL-0710-820	82 $\pm$ 10%	30	2.52	4.50	0.50	350
MOX-RLPL-0710-101	100 $\pm$ 10%	45	0.796	4.20	0.60	330
MOX-RLPL-0710-121	120 $\pm$ 10%	45	0.796	3.60	0.70	310
MOX-RLPL-0710-151	150 $\pm$ 10%	45	0.796	3.40	0.90	290
MOX-RLPL-0710-181	180 $\pm$ 10%	45	0.796	3.20	1.00	270
MOX-RLPL-0710-221	220 $\pm$ 10%	45	0.796	3.00	1.20	250
MOX-RLPL-0710-271	270 $\pm$ 10%	45	0.796	2.80	1.40	230
MOX-RLPL-0710-331	330 $\pm$ 10%	45	0.796	2.50	1.60	210
MOX-RLPL-0710-391	390 $\pm$ 10%	45	0.796	2.30	1.80	190
MOX-RLPL-0710-471	470 $\pm$ 10%	45	0.796	2.20	2.00	170
MOX-RLPL-0710-561	560 $\pm$ 10%	45	0.796	2.00	2.50	160
MOX-RLPL-0710-681	680 $\pm$ 10%	45	0.796	1.70	2.90	150
MOX-RLPL-0710-821	820 $\pm$ 10%	45	0.796	1.50	3.10	140
MOX-RLPL-0710-102	1000 $\pm$ 10%	45	0.252	1.40	3.90	130
MOX-RLPL-0710-122	1200 $\pm$ 10%	60	0.252	1.10	4.40	120
MOX-RLPL-0710-152	1500 $\pm$ 10%	60	0.252	0.90	6.00	110
MOX-RLPL-0710-182	1800 $\pm$ 10%	60	0.252	0.80	7.00	100
MOX-RLPL-0710-222	2200 $\pm$ 10%	60	0.252	0.75	8.00	90
MOX-RLPL-0710-272	2700 $\pm$ 10%	60	0.252	0.70	9.00	80
MOX-RLPL-0710-332	3300 $\pm$ 10%	60	0.252	0.60	12.00	70
MOX-RLPL-0710-392	3900 $\pm$ 10%	60	0.252	0.55	14.00	60
MOX-RLPL-0710-472	4700 $\pm$ 10%	60	0.252	0.50	16.00	55
MOX-RLPL-0710-562	5600 $\pm$ 10%	60	0.252	0.48	18.00	50
MOX-RLPL-0710-682	6800 $\pm$ 10%	60	0.252	0.44	24.00	45
MOX-RLPL-0710-822	8200 $\pm$ 10%	60	0.252	0.40	30.00	40
MOX-RLPL-0710-103	10000 $\pm$ 10%	60	0.0796	0.36	39.00	38
MOX-RLPL-0710-123	12000 $\pm$ 10%	60	0.0796	0.32	46.00	35
MOX-RLPL-0710-153	15000 $\pm$ 10%	60	0.0796	0.30	54.00	33
MOX-RLPL-0710-183	18000 $\pm$ 10%	60	0.0796	0.28	76.00	30
MOX-RLPL-0710-223	22000 $\pm$ 10%	60	0.0796	0.24	92.00	28
MOX-RLPL-0710-273	27000 $\pm$ 10%	60	0.0796	0.20	102.00	25
MOX-RLPL-0710-333	33000 $\pm$ 10%	60	0.0796	0.16	140.00	22
MOX-RLPL-0710-393	39000 $\pm$ 10%	60	0.0796	0.13	150.00	20
MOX-RLPL-0710-473	47000 $\pm$ 10%	60	0.0796	0.10	162.00	18



## ENGINEERING NOTES

- **Inductance:** Tested at 100 kHz, 0.1Vrms, 0A<sub>dc</sub> 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<sub>rms</sub> (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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