

# MOX-MOX-RLPL-0914



## HIGH CURRENT RADIAL INDUCTORS

### 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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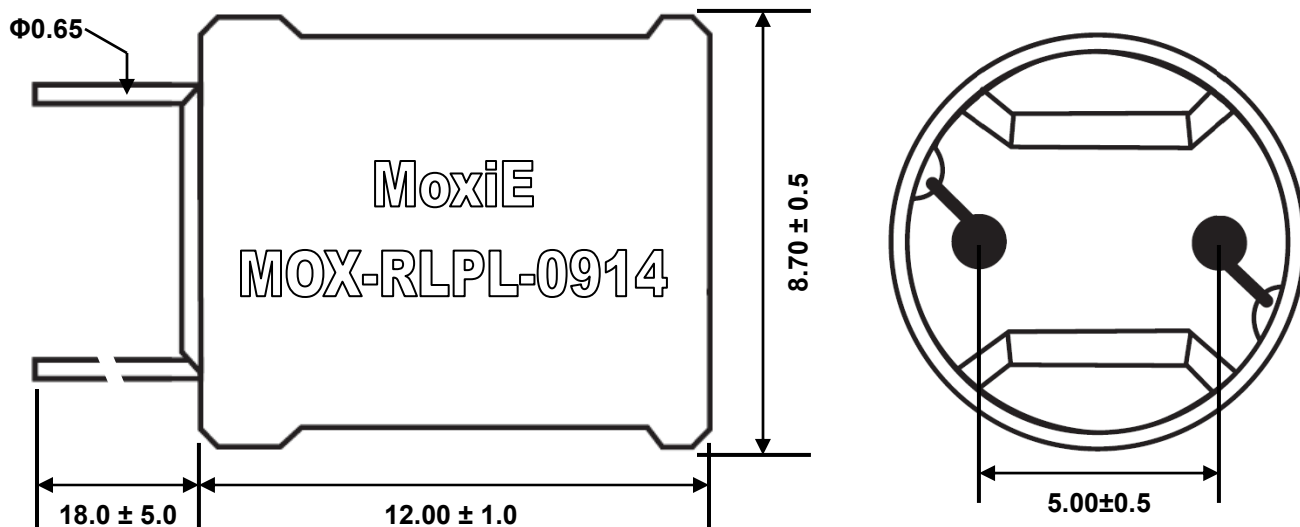
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## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	Q Ref.	Test Frequency (MHz)	SRF (MHz) Min.	RDC (Ω) Max.	IDC (A) Max.
MOX-RLPL-0914-3R3M	3.30 ±20 %	20	7.960	70.0	0.026	3.65
MOX-RLPL-0914-4R7M	4.70 ±20 %	20	7.960	50.0	0.032	3.25
MOX-RLPL-0914-6R8M	6.80 ±20 %	20	7.960	30.0	0.037	3.10
MOX-RLPL-0914-100K	10.0 ±10 %	50	2.520	20.0	0.047	2.75
MOX-RLPL-0914-120K	12.0 ±10 %	50	2.520	15.0	0.055	2.60
MOX-RLPL-0914-150K	15.0 ±10 %	50	2.520	10.0	0.060	2.45
MOX-RLPL-0914-180K	18.0 ±10 %	40	2.520	9.5	0.063	2.35
MOX-RLPL-0914-220K	22.0 ±10 %	40	2.520	9.0	0.090	1.95
MOX-RLPL-0914-270K	27.0 ±10 %	40	2.520	8.5	0.110	1.83
MOX-RLPL-0914-330K	33.0 ±10 %	40	2.520	8.0	0.120	1.74
MOX-RLPL-0914-390K	39.0 ±10 %	30	2.520	7.0	0.128	1.63
MOX-RLPL-0914-470K	47.0 ±10 %	30	2.520	6.0	0.135	1.55
MOX-RLPL-0914-560K	56.0 ±10 %	30	2.520	5.0	0.200	1.32
MOX-RLPL-0914-680K	68.0 ±10 %	30	2.520	4.5	0.205	1.23
MOX-RLPL-0914-820K	82.0 ±10 %	30	2.520	4.0	0.220	1.12
MOX-RLPL-0914-101K	100.0 ±10 %	30	0.796	3.5	0.270	1.05
MOX-RLPL-0914-121K	120.0 ±10 %	30	0.796	3.0	0.310	0.93
MOX-RLPL-0914-151K	150.0 ±10 %	30	0.796	2.8	0.360	0.82
MOX-RLPL-0914-181K	180.0 ±10 %	30	0.796	2.6	0.530	0.77
MOX-RLPL-0914-221K	220.0 ±10 %	20	0.796	2.4	0.600	0.72
MOX-RLPL-0914-271K	270.0 ±10 %	20	0.796	2.2	0.670	0.66
MOX-RLPL-0914-331K	330.0 ±10 %	20	0.796	2.0	0.760	0.62
MOX-RLPL-0914-391K	390.0 ±10 %	20	0.796	1.9	0.840	0.57
MOX-RLPL-0914-471K	470.0 ±10 %	20	0.796	1.8	1.300	0.52
MOX-RLPL-0914-561K	560.0 ±10 %	20	0.796	1.7	1.390	0.46
MOX-RLPL-0914-681K	680.0 ±10 %	20	0.796	1.6	1.600	0.42
MOX-RLPL-0914-821K	820.0 ±10 %	20	0.796	1.5	1.790	0.36
MOX-RLPL-0914-102K	1000.0 ±10 %	40	0.252	1.3	2.100	0.33



## 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.
- **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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