



RL-9250

SMD COMMON MODE CHOKE

DESCRIPTION

- Surface Mount Common Mode Choke

ENVIRONMENTAL DATA

- Storage temperature range: -55°C to +130°C
- Operating temperature range: -40°C to +105°C

PACKAGING INFORMATION

- Packaging information: pg. 491

FEATURES & APPLICATIONS

- Manufactured in a robust compact package
- Designed for AC power line filtering and EMI suppression in switched-mode power supplies
- Inductance values from 0.075 mH to 12.0 mH
- High resonant frequency
- Dielectric withstanding voltage rated at 2000 VAC line to line

Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

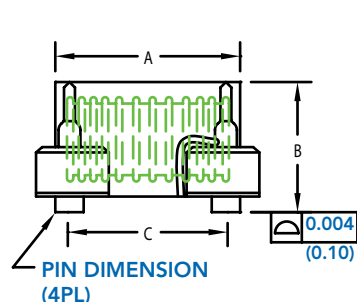
MECHANICAL DIMENSIONS

U.S. Standard (mm)

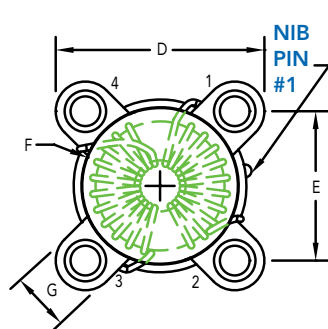
PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (MAX.)	E (MAX.)	F (MAX.)	G (REF.)
RL-9250	0.490 (12.45)	0.300 (7.62)	0.400 (10.16)	0.540 (13.72)	0.400 (10.16)	0.445 (11.30)	0.125 (3.18)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)
RL-9250	2.0g (0.07oz)	0.40 (10.16)	0.685 (17.40)	0.565 (14.35)	0.565 (14.35)	0.685 (17.40)

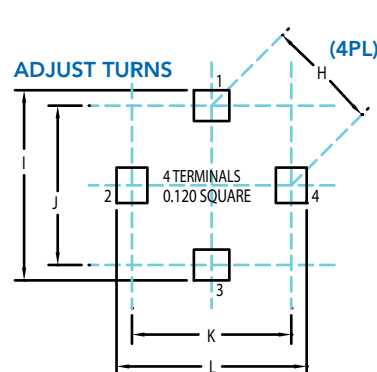
SIDE VIEW



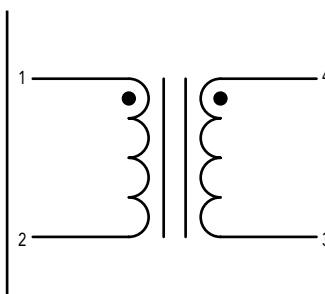
BOTTOM VIEW



RECOMENDED LAND PATTERN



SCHEMATIC



RENCO ELECTRONICS INC.



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Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600

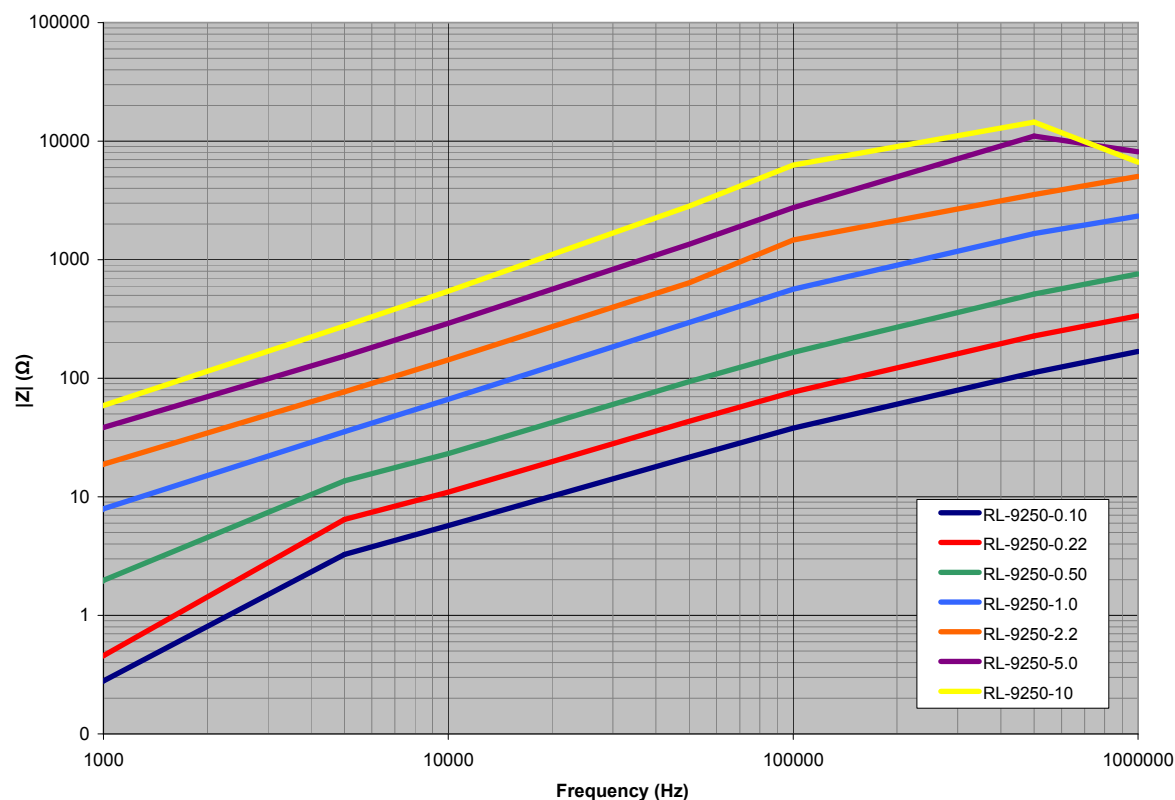
RL-9250

Renco Part No. RL-9250	Typ. Inductance (mH)	Min. Inductance (mH)	DCR Max. (Ohms)	Leakage Inductance (μH) Max.	Irms Current	
					ΔT=20 Irms (A)	ΔT=40 Irms (A)
RL-9250-0.10	0.100	0.075	0.006	0.8	6.95	9.80
RL-9250-0.15	0.150	0.113	0.010	1.1	5.75	8.20
RL-9250-0.22	0.220	0.165	0.012	1.5	4.50	6.60
RL-9250-0.33	0.330	0.248	0.017	2.1	4.25	6.40
RL-9250-0.50	0.500	0.375	0.024	2.6	3.70	5.30
RL-9250-0.75	0.750	0.563	0.035	3.8	3.00	4.40
RL-9250-1.0	1.00	0.750	0.049	4.6	2.70	4.05
RL-9250-1.2	1.20	0.900	0.068	5.5	2.25	3.45
RL-9250-1.8	1.80	1.350	0.106	8.0	1.70	2.50
RL-9250-2.2	2.20	1.650	0.150	10.5	1.45	2.25
RL-9250-3.3	3.30	2.475	0.210	17.0	1.10	2.00
RL-9250-5.0	5.00	3.750	0.320	27.0	0.90	1.35
RL-9250-7.5	7.50	5.625	0.640	42.0	0.80	1.10
RL-9250-10	10.0	7.500	0.900	55.0	0.70	0.95
RL-9250-12	12.0	9.000	1.70	70.0	0.50	0.65

NOTES:

1. INDUCTANCE TESTED AT 10 kHz, 0.1 Vrms
2. DC RESISTANCE MEASURED AT 25°C
3. RATED VOLTAGE: 1500V FOR 2 SECONDS BETWEEN WINDINGS
4. Irms CURRENT: CURRENT APPLIED TO ONE WINDING RESULTING IN A TEMPERATURE RISE OF 20°C OR 40°C AT AN AMBIENT TEMPERATURE OF 25°C
5. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C

RL-9250 Typical Common Mode Impedance vs. Frequency



Additional Graphs Available Upon Request



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