

# RL-1238

## AIR CORE INDUCTORS

### BOBBIN WOUND

#### DESCRIPTION

- Air Core Inductors

#### ENVIRONMENTAL DATA

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

#### PACKAGING INFORMATION

- Packaging information: pg. 493

#### FEATURES & APPLICATIONS

- 46 different values ranging from 1.0  $\mu\text{H}$  to 8,200  $\mu\text{H}$  with current rating from 0.8 A to 8 A
- Handles high currents without saturating as metal core inductors would
- Supplied ready for PCB insertion or, as an option, with flying leads for wiring directly into circuits
- Typical applications include: power line filters, switching regulated power supplies, audio filters, speaker crossover networks, power amplifiers and power RF suppression circuits

Verify operation with sample in actual circuit. Order samples at [www.rencousa.com](http://www.rencousa.com).

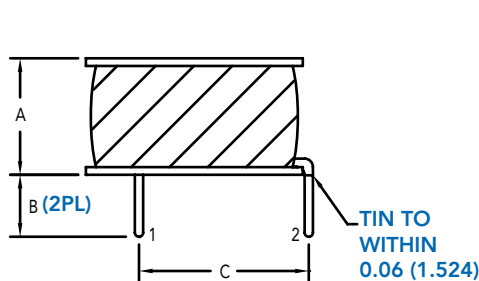
#### MECHANICAL DIMENSIONS

U.S. Standard (mm)

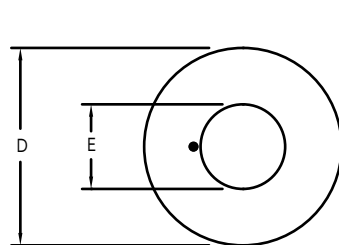
PART NUMBER	A (TYP.)	B (MIN.)	C (TYP.)	D (TYP.)	E (TYP.)
RL-1238	0.94 (23.88)	0.50 (12.70)	1.31 (33.27)	1.75 (44.45)	0.75 (19.00)

PART NUMBER	PART WEIGHT
RL-1238	68.0g (2.40oz)

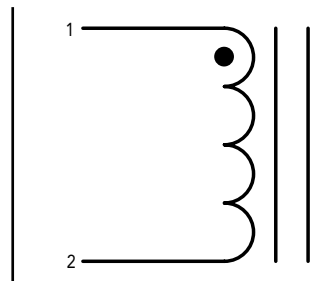
FRONT VIEW



BOTTOM VIEW



SCHEMATIC



**RENCO ELECTRONICS INC.**

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# RL-1238

Renco Part No. RL-1238	Inductance ( $\mu$ H)	Max. DCR (Ohms)	I <sub>rms</sub> (A)
RL-1238-1.0	1.0	0.0062	8.0
RL-1238-1.5	1.5	0.0078	8.0
RL-1238-1.8	1.8	0.0085	8.0
RL-1238-2.2	2.2	0.0093	8.0
RL-1238-2.7	2.7	0.0110	8.0
RL-1238-3.3	3.3	0.0120	8.0
RL-1238-3.9	3.9	0.0125	8.0
RL-1238-4.7	4.7	0.0140	8.0
RL-1238-5.6	5.6	0.0153	8.0
RL-1238-6.8	6.8	0.0170	8.0
RL-1238-8.2	8.2	0.0193	8.0
RL-1238-10	10.0	0.0220	8.0
RL-1238-12	12.0	0.0236	8.0
RL-1238-15	15.0	0.0260	8.0
RL-1238-18	18.0	0.0280	8.0
RL-1238-22	22.0	0.0300	8.0
RL-1238-27	27.0	0.0350	8.0
RL-1238-33	33.0	0.0390	8.0
RL-1238-39	39.0	0.0430	8.0
RL-1238-47	47.0	0.0470	8.0
RL-1238-56	56.0	0.0516	8.0
RL-1238-68	68.0	0.0576	8.0
RL-1238-82	82.0	0.0630	8.0
RL-1238-100	100.0	0.0700	8.0
RL-1238-120	120.0	0.0730	8.0
RL-1238-150	150.0	0.1120	6.5
RL-1238-180	180.0	0.1250	6.5
RL-1238-220	220.0	0.2330	5.0
RL-1238-270	270.0	0.2510	4.0
RL-1238-330	330.0	0.2610	4.0
RL-1238-390	390.0	0.2930	4.0
RL-1238-470	470.0	0.3170	3.5
RL-1238-560	560.0	0.4290	3.5
RL-1238-680	680.0	0.4750	3.5
RL-1238-820	820.0	0.6420	2.5

Renco Part No. RL-1238	Inductance ( $\mu$ H)	Max. DCR (Ohms)	I <sub>rms</sub> (A)
RL-1238-1000	1000.0	0.7000	2.5
RL-1238-1200	1200.0	0.7680	2.5
RL-1238-1500	1500.0	1.0900	2.0
RL-1238-2200	2200.0	1.6800	1.5
RL-1238-2700	2700.0	2.3000	1.3
RL-1238-3300	3300.0	2.6000	1.3
RL-1238-3900	3900.0	2.8000	1.3
RL-1238-4700	4700.0	3.9000	1.0
RL-1238-5600	5600.0	4.3000	1.0
RL-1238-6800	6800.0	5.8000	0.8
RL-1238-8200	8200.0	6.5000	0.8

## NOTES:

1. INDUCTANCE VALUES  $\pm$  15% TESTED AT 10 kHz, 0.1 V<sub>rms</sub>.  
VALUES BELOW 10 $\mu$ H ARE  $\pm$ 20%
2. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
3. I<sub>rms</sub> - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C

