

# RL-1233

## 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. 508

#### FEATURES & APPLICATIONS

- 38 different values ranging from 0.56  $\mu\text{H}$  to 680  $\mu\text{H}$  with current rating, depending on type, 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).

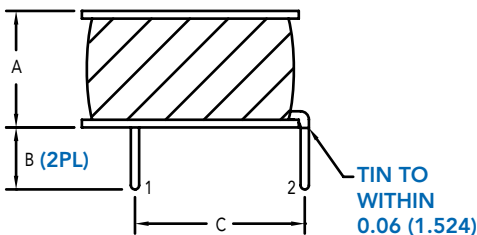
#### MECHANICAL DIMENSIONS

U.S. Standard (mm)

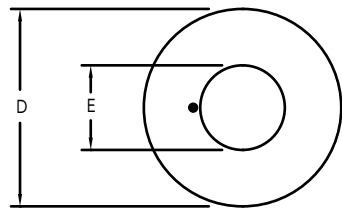
PART NUMBER	A (TYP.)	B (MIN.)	C	D	E
RL-1233	0.56 (14.22)	0.50 (12.70)	See Table	1.16 (29.46)	0.63 (16.00)

PART NUMBER	PART WEIGHT
RL-1233	23.0g (0.81oz)

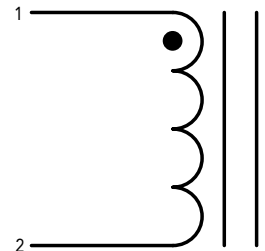
FRONT VIEW



BOTTOM VIEW



SCHEMATIC



# RL-1233

Renco Part No. RL-1233	Inductance ( $\mu$ H)	Max. DCR (Ohms)	I <sub>rms</sub> (A)	"C" DIM Ref.
RL-1233-0.56	0.56	0.006	8.0	0.823 (20.90)
RL-1233-0.68	0.68	0.007	8.0	0.823 (20.90)
RL-1233-0.82	0.82	0.008	8.0	0.823 (20.90)
RL-1233-1.0	1.0	0.009	8.0	0.823 (20.90)
RL-1233-1.2	1.2	0.010	8.0	0.823 (20.90)
RL-1233-1.5	1.5	0.011	8.0	0.823 (20.90)
RL-1233-1.8	1.8	0.013	8.0	0.823 (20.90)
RL-1233-2.2	2.2	0.014	8.0	0.823 (20.90)
RL-1233-2.7	2.7	0.015	8.0	0.823 (20.90)
RL-1233-3.3	3.3	0.016	8.0	0.823 (20.90)
RL-1233-3.9	3.9	0.017	8.0	0.823 (20.90)
RL-1233-4.7	4.7	0.019	8.0	0.823 (20.90)
RL-1233-5.6	5.6	0.022	8.0	0.823 (20.90)
RL-1233-6.8	6.8	0.024	8.0	0.823 (20.90)
RL-1233-8.2	8.2	0.026	8.0	0.823 (20.90)
RL-1233-10	10.0	0.030	8.0	0.823 (20.90)
RL-1233-12	12.0	0.033	8.0	0.823 (20.90)
RL-1233-15	15.0	0.038	8.0	0.823 (20.90)
RL-1233-18	18.0	0.039	8.0	0.823 (20.90)
RL-1233-22	22.0	0.053	4.0	0.915 (23.24)
RL-1233-27	27.0	0.075	3.5	0.862 (21.89)
RL-1233-33	33.0	0.080	3.5	0.862 (21.89)
RL-1233-39	39.0	0.090	3.5	0.862 (21.89)
RL-1233-47	47.0	0.100	3.5	0.862 (21.89)
RL-1233-56	56.0	0.135	2.5	0.957 (24.31)
RL-1233-68	68.0	0.151	2.5	0.957 (24.31)
RL-1233-82	82.0	0.166	2.5	0.957 (24.31)
RL-1233-100	100.0	0.230	2.0	0.957 (24.31)
RL-1233-120	120.0	0.255	2.0	0.957 (24.31)
RL-1233-150	150.0	0.285	2.0	0.957 (24.31)
RL-1233-180	180.0	0.395	1.5	0.957 (24.31)
RL-1233-220	220.0	0.542	1.3	0.957 (24.31)
RL-1233-270	270.0	0.617	1.3	0.957 (24.31)
RL-1233-330	330.0	0.830	1.0	0.957 (24.31)
RL-1233-390	390.0	0.907	1.0	0.957 (24.31)
RL-1233-470	470.0	0.978	1.0	0.957 (24.31)
RL-1233-560	560.0	1.375	0.8	0.957 (24.31)
RL-1233-680	680.0	1.525	0.8	0.925 (23.50)

**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



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