

RL-9580-1

HIGH CURRENT SMD INDUCTOR

DESCRIPTION

- High Current SMD Inductor

ENVIRONMENTAL DATA

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

PACKAGING INFORMATION

- Packaging information: pg. 491

FEATURES & APPLICATIONS

- Lowest height in this package footprint
- Shielded construction
- Lowest DCR/ μ H in this package size
- Handles high transient current spikes without saturation
- Ultra low EMI due to composite construction
- Frequency up to 5 MHz
- Typical applications include: notebook computers, desktop computers, server applications, high current POL converters, and low-profile, high-current power supplies

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

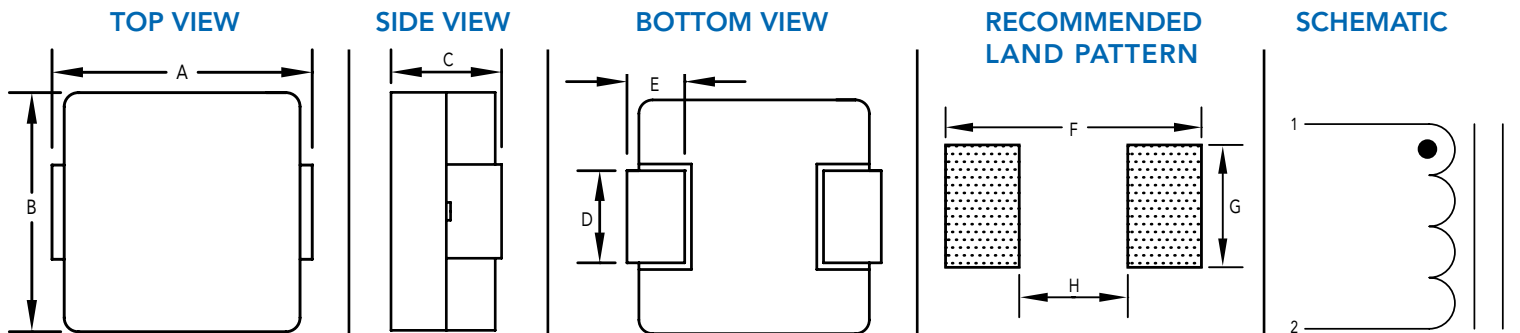
MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D \pm 0.008 (0.2)	E \pm 0.012 (0.3)	F (REF.)
RL-9580-1-1.2	0.185 (4.70)	0.170 (4.31)	0.047 (1.20)	0.060 (1.50)	0.030 (0.76)	0.205 (5.20)
RL-9580-1-2.0	0.185 (4.70)	0.170 (4.31)	0.079 (2.00)	0.060 (1.50)	0.030 (0.76)	0.205 (5.20)

PART NUMBER	PART WEIGHT
RL-9580-1-1.2	0.11g (0.004oz)
RL-9580-1-2.0	0.11g (0.004oz)

G (REF.)	H (REF.)
0.098 (2.50)	0.087 (2.20)
0.098 (2.50)	0.087 (2.20)



RL-9580-1

Renco Part No. RL-9580-1-1.2	Inductance (μ H)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-1-1.2-R10Y	0.10 \pm 30%	25	11.5	4.3	5.5
RL-9580-1-1.2-R22M	0.22 \pm 20%	20	8.5	6.6	8.0
RL-9580-1-1.2-R47M	0.47 \pm 20%	6.5	6.0	18.0	20.0
RL-9580-1-1.2-1R0M	1.00 \pm 20%	6.0	4.0	41.0	47.3
RL-9580-1-1.2-1R5M	1.50 \pm 20%	4.0	3.0	55.0	63.3
RL-9580-1-1.2-2R2M	2.20 \pm 20%	3.5	2.8	69.2	80.0
RL-9580-1-1.2-3R3M	3.30 \pm 20%	3.0	2.3	84.0	97.0
RL-9580-1-1.2-4R7M	4.70 \pm 20%	2.5	2.0	128.0	145.0
RL-9580-1-1.2-5R6M	5.60 \pm 20%	2.3	1.7	180.0	208.0
RL-9580-1-1.2-6R8M	6.80 \pm 20%	1.7	1.5	300.0	360.0
RL-9580-1-1.2-8R2M	8.20 \pm 20%	1.6	1.4	313.0	376.0
RL-9580-1-1.2-100M	10.00 \pm 20%	1.4	1.3	410.0	463.0

Renco Part No. RL-9580-1-2.0	Inductance (μ H)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-1-2.0-R10Y	0.10 \pm 30%	35.0	12.0	3.2	4.0
RL-9580-1-2.0-R18Y	0.18 \pm 30%	28.0	13.5	4.6	5.4
RL-9580-1-2.0-R22M	0.22 \pm 20%	24.0	13.0	6.6	7.3
RL-9580-1-2.0-R33M	0.33 \pm 20%	18.0	10.0	7.8	8.6
RL-9580-1-2.0-R47M	0.47 \pm 20%	12.0	8.0	11.2	14.0
RL-9580-1-2.0-R56M	0.56 \pm 20%	10.0	7.3	13.5	16.0
RL-9580-1-2.0-1R0M	1.00 \pm 20%	8.5	5.0	22.0	27.0
RL-9580-1-2.0-1R2M	1.20 \pm 20%	7.8	4.8	25.0	30.0
RL-9580-1-2.0-1R5M	1.50 \pm 20%	7.0	4.5	34.8	42.0
RL-9580-1-2.0-2R2M	2.20 \pm 20%	6.0	4.0	51.0	61.0
RL-9580-1-2.0-3R3M	3.30 \pm 20%	4.0	3.5	69.0	76.0
RL-9580-1-2.0-4R7M	4.70 \pm 20%	3.5	2.6	95.0	105.0
RL-9580-1-2.0-5R6M	5.60 \pm 20%	3.0	2.2	112.0	125.0
RL-9580-1-2.0-6R8M	6.80 \pm 20%	2.8	2.1	150.0	172.0
RL-9580-1-2.0-8R2M	8.20 \pm 20%	2.5	2.0	158.0	180.0
RL-9580-1-2.0-100M	10.00 \pm 20%	2.3	1.8	215.0	243.0
RL-9580-1-2.0-150M	15.00 \pm 20%	1.9	1.5	325.0	374.0
RL-9580-1-2.0-220M	22.00 \pm 20%	1.4	1.2	470.0	500.0

NOTES:

1. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 20%
2. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. INDUCTANCE TESTED AT 100 kHz, 1.0Vrms



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