

RL-9580-5

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. 492

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

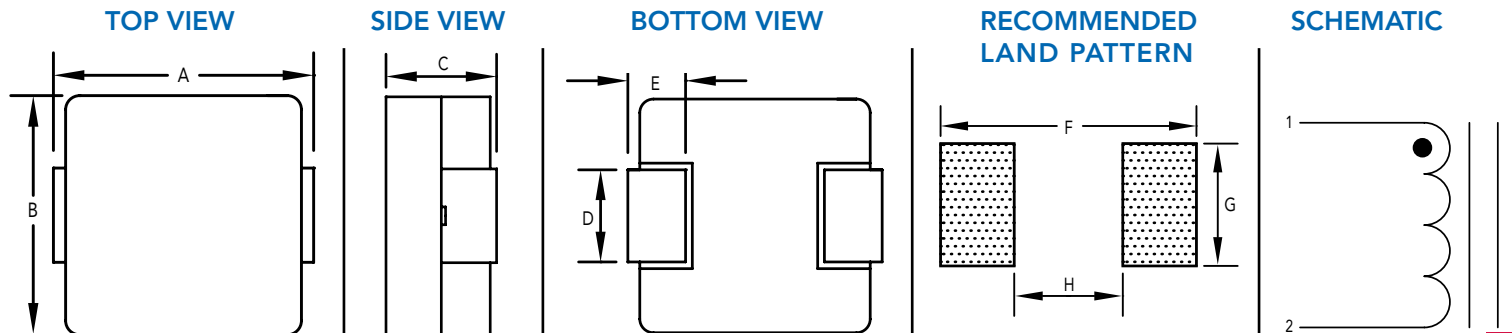
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D ± 0.012 (0.3)	E (REF.)
RL-9580-5-3.5	0.551 (14.0)	0.504 (12.80)	0.137 (3.50)	0.185 (4.70)	0.090 (2.30)
RL-9580-5-5.0	0.551 (14.0)	0.504 (12.80)	0.196 (5.00)	0.185 (4.70)	0.090 (2.30)
RL-9580-5-6.0	0.551 (14.0)	0.504 (12.80)	0.236 (6.00)	0.185 (4.70)	0.090 (2.30)

PART NUMBER	PART WEIGHT	F (REF.)	G (REF.)	H (REF.)
RL-9580-5-3.5	3.100g (0.109oz)	0.559 (14.20)	0.196 (5.00)	0.315 (8.0)
RL-9580-5-5.0	4.700g (0.165oz)	0.559 (14.20)	0.196 (5.00)	0.315 (8.0)
RL-9580-5-6.0	5.600g (0.197oz)	0.559 (14.20)	0.196 (5.00)	0.315 (8.0)



RENCO ELECTRONICS INC.

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RL-9580-5

Renco Part No. RL-9580-5-3.5	Inductance (μ H)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-5-3.5-R10Y	0.10 \pm 30%	84.0	43.0	0.36	0.43
RL-9580-5-3.5-R15Y	0.15 \pm 30%	75.0	41.0	0.40	0.48
RL-9580-5-3.5-R22M	0.22 \pm 20%	65.0	38.5	0.70	0.81
RL-9580-5-3.5-R33M	0.33 \pm 20%	62.0	36.5	0.85	1.00
RL-9580-5-3.5-R47M	0.47 \pm 20%	55.0	32.0	1.20	1.80
RL-9580-5-3.5-R60M	0.60 \pm 20%	51.0	29.0	1.50	2.20
RL-9580-5-3.5-R68M	0.68 \pm 20%	49.0	28.0	1.90	2.50
RL-9580-5-3.5-R82M	0.82 \pm 20%	44.0	25.0	2.20	3.00
RL-9580-5-3.5-1R0M	1.00 \pm 20%	40.0	24.0	2.70	3.50
RL-9580-5-3.5-1R5M	1.50 \pm 20%	35.0	19.0	4.80	5.50
RL-9580-5-3.5-1R8M	1.80 \pm 20%	30.0	17.0	5.20	7.00
RL-9580-5-3.5-2R2M	2.20 \pm 20%	29.0	16.0	6.30	8.00
RL-9580-5-3.5-3R3M	3.30 \pm 20%	27.0	12.0	11.00	13.50
RL-9580-5-3.5-4R7M	4.70 \pm 20%	24.0	10.0	15.30	18.50
RL-9580-5-3.5-5R6M	5.60 \pm 20%	19.0	9.5	18.00	22.00
RL-9580-5-3.5-6R8M	6.80 \pm 20%	18.0	9.0	20.00	24.00
RL-9580-5-3.5-8R2M	8.20 \pm 20%	16.0	8.5	23.00	28.00
RL-9580-5-3.5-100M	10.0 \pm 20%	14.0	7.0	29.00	34.00

Renco Part No. RL-9580-5-5.0	Inductance (μ H)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-5-5.0-R33M	0.33 \pm 20%	80.0	42.0	0.70	0.90
RL-9580-5-5.0-R47M	0.47 \pm 20%	65.0	38.0	0.86	1.10
RL-9580-5-5.0-R56M	0.56 \pm 20%	55.0	36.0	1.00	1.50
RL-9580-5-5.0-R68M	0.68 \pm 20%	54.0	34.0	1.40	1.70
RL-9580-5-5.0-1R0M	1.00 \pm 20%	50.0	29.0	1.85	2.50
RL-9580-5-5.0-1R5M	1.50 \pm 20%	48.0	27.0	2.80	3.30
RL-9580-5-5.0-1R8M	1.80 \pm 20%	40.0	21.0	4.00	4.90
RL-9580-5-5.0-2R2M	2.20 \pm 20%	32.0	20.0	4.20	5.50
RL-9580-5-5.0-3R3M	3.30 \pm 20%	32.0	15.0	6.80	9.20
RL-9580-5-5.0-4R7M	4.70 \pm 20%	27.0	12.0	11.40	15.00
RL-9580-5-5.0-5R6M	5.60 \pm 20%	22.0	11.5	12.30	16.50
RL-9580-5-5.0-6R8M	6.80 \pm 20%	21.0	11.0	14.50	18.50
RL-9580-5-5.0-8R2M	8.20 \pm 20%	18.0	9.5	16.80	22.50
RL-9580-5-5.0-100M	10.0 \pm 20%	16.0	9.0	21.40	25.50

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



RL-9580-5

Renco Part No. RL-9580-5-6.0	Inductance (μ H)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-5-6.0-6R8M	6.80 \pm 20%	19.0	15.0	12.0	13.8
RL-9580-5-6.0-100M	10.00 \pm 20%	15.5	11.0	18.0	20.7
RL-9580-5-6.0-120M	12.00 \pm 20%	13.5	9.5	20.0	23.0
RL-9580-5-6.0-150M	15.00 \pm 20%	13.0	9.0	25.0	29.0
RL-9580-5-6.0-180M	18.00 \pm 20%	12.0	8.5	30.0	35.0
RL-9580-5-6.0-220M	22.00 \pm 20%	11.0	8.0	34.0	39.5
RL-9580-5-6.0-270M	27.00 \pm 20%	9.0	7.0	49.0	56.0
RL-9580-5-6.0-330M	33.00 \pm 20%	8.0	6.0	65.0	75.0
RL-9580-5-6.0-470M	47.00 \pm 20%	7.0	5.5	80.0	90.0
RL-9580-5-6.0-680M	68.00 \pm 20%	6.0	5.0	120.0	140.0
RL-9580-5-6.0-101M	100.00 \pm 20%	5.0	4.0	180.0	200.0
RL-9580-5-6.0-121M	120.00 \pm 20%	4.5	3.5	210.0	235.0
RL-9580-5-6.0-151M	150.00 \pm 20%	4.0	3.0	300.0	350.0

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3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. INDUCTANCE TESTED AT 100 kHz, 1.0Vrms



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