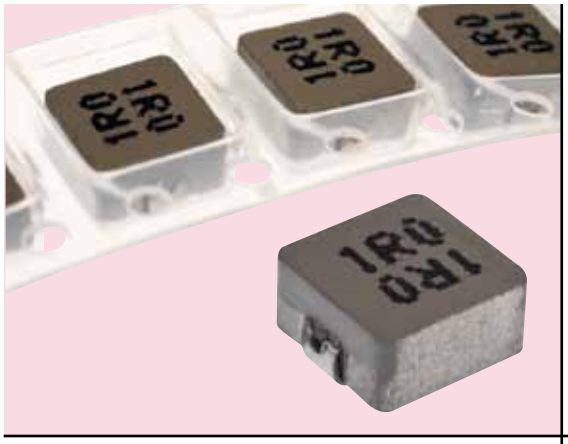


RL-9580-7

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/µH 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

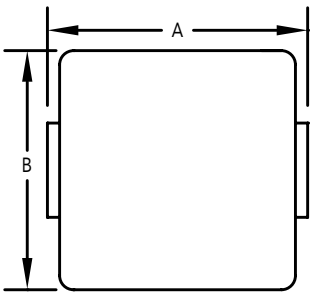
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D ±0.012 (0.3)	E (REF.)
RL-9580-7-7.0	0.689 (17.50)	0.667 (17.20)	0.275 (7.00)	0.468 (11.90)	0.082 (2.10)

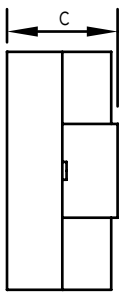
PART NUMBER	PART WEIGHT
RL-9580-7-7.0	12.0g (0.423oz)

F (REF.)	G (REF.)	H (REF.)
0.728 (18.50)	0.492 (12.50)	0.480 (12.20)

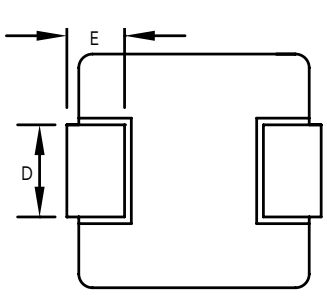
TOP VIEW



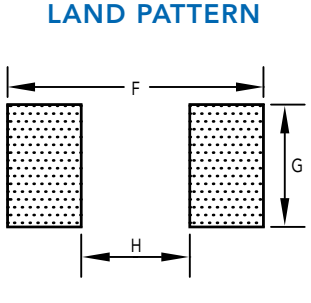
SIDE VIEW



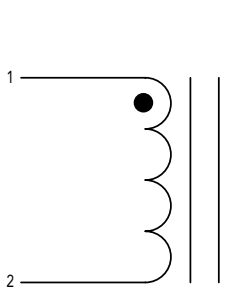
BOTTOM VIEW



RECOMMENDED LAND PATTERN



SCHEMATIC



SURFACE MOUNTS

RENCO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • www.rencousa.com • ISO 9001 Certified
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600

RoHS COMPLIANT

RL-9580-7

Renco Part No. RL-9580-5-6.0	Inductance (µH)	Isat (A)	Irms (A)	DCR (mOhms) TYP. @ 25°C	DCR (mOhms) MAX. @ 25°C
RL-9580-7-7.0-2R2M	2.20 ± 20%	47.0	43.5	2.4	2.7
RL-9580-7-7.0-3R3M	3.30 ± 20%	45.0	28.0	3.5	3.9
RL-9580-7-7.0-4R7M	4.70 ± 20%	41.0	25.0	4.8	5.5
RL-9580-7-7.0-5R6M	5.60 ± 20%	40.0	21.0	5.8	7.05
RL-9580-7-7.0-6R8M	6.80 ± 20%	32.0	19.0	8.4	9.2
RL-9580-7-7.0-8R2M	8.20 ± 20%	25.0	18.0	9.6	10.8
RL-9580-7-7.0-100M	10.00 ± 20%	24.0	16.5	11.8	13.0
RL-9580-7-7.0-150M	15.00 ± 20%	23.0	12.5	17.8	20.5
RL-9580-7-7.0-220M	22.00 ± 20%	18.0	12.0	25.1	26.5
RL-9580-7-7.0-330M	33.00 ± 20%	15.0	10.7	38.0	44.0
RL-9580-7-7.0-470M	47.00 ± 20%	9.5	8.7	48.0	55.0
RL-9580-7-7.0-101M	100.00 ± 20%	6.5	5.3	102.0	118.0

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