

RL-9740

THROUGH HOLE CURRENT SENSOR

DESCRIPTION

- Through Hole Current Sensors

ENVIRONMENTAL DATA

- Storage temperature range: -55°C to +130°C
- Operating temperature range: -40°C to +105°C

PACKAGING INFORMATION

- Contact Customer Support 800.645.5828

FEATURES & APPLICATIONS

- Frequency range from 10-200 kHz
- Meets IEC950 insulation requirements
- Designed to meet VDE requirements
- 3750 Vrms primary to secondary breakdown voltage
- Typical applications include: switched-mode power supply applications, unipolar or bipolar, operation at frequencies from 10kHz to 200kHz

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

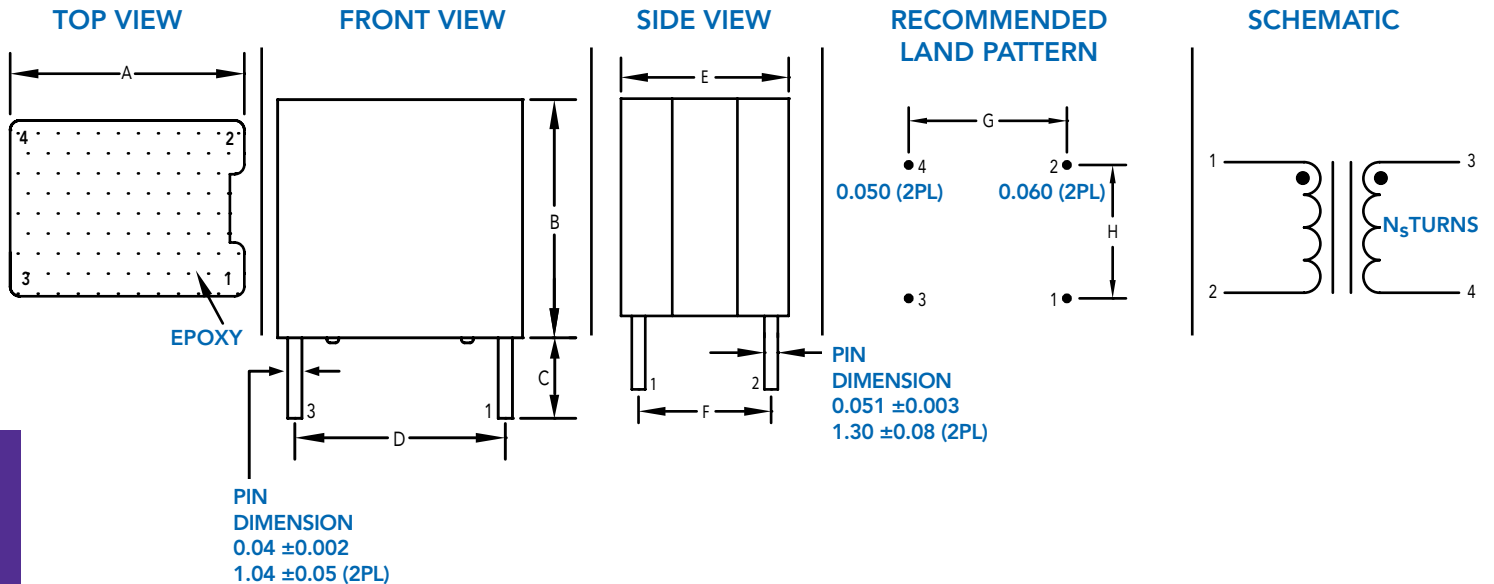
MECHANICAL DIMENSIONS

U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MIN.)	D (TYP.)	E (MAX.)
RL-9740	0.750 (19.05)	0.750 (19.05)	0.20 (5.08)	0.60 (15.24)	0.565 (14.35)

PART NUMBER	PART WEIGHT
RL-9740	11.5g (0.4oz)

F (TYP.)	G ±0.005 (0.13)	H ±0.005 (0.13)
0.40 (10.16)	0.60 (15.24)	0.40 (10.16)



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Renco Part No. RL-9740	I _{PK} (A)	R _T (Ohms)	Droop (%)	Volt/A w/RT	L _S (mH Min.)	DCR R _S (Ohms Max.)	Turns Ratio (N _S ± 1%)
RL-9740-1	35	15	2.4	0.30	5.0	0.70	50
RL-9740-2	37	56	2.2	0.56	20	1.40	100
RL-9740-3	38	200	2.0	1.00	80	4.50	200
RL-9740-4	37	510	2.2	1.70	180	11.0	300

NOTES:

1. 1 TURN PRIMARY WINDING, SECONDARY TURNS (N_S) AS INDICATED IN THE TABLE, AND A 130°C INSULATION SYSTEM
2. REFERENCE VALUES ARE FOR UNIPOLAR OPERATION, AT 50kHz, 40% DUTY CYCLE, AND AN ESTIMATED 55°C TEMPERATURE RISE
3. MAXIMUM USEABLE PEAK SENSE CURRENT (I_{PK}) DEPENDS ON TEMPERATURE RISE OR CORE SATURATION, WHICH SHOULD BE EVALUATED FOR THE OPERATING TEMPERATURES
4. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
5. THE TERMINATING RESISTOR (R_T) MAY BE VARIED TO ADJUST VOLT/A



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