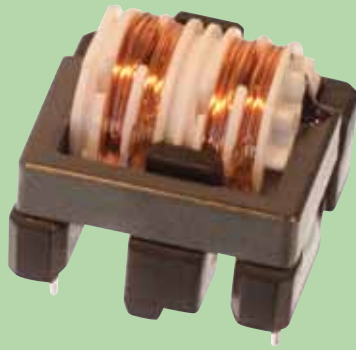




# RL-9750-2HM

## THRU-HOLE AC LINE FILTER

### DESCRIPTION

- Thru-Hole AC Line Filter

### ENVIRONMENTAL DATA

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

### PACKAGING INFORMATION

- Packaging information: pg. 495

### FEATURES & APPLICATIONS

- Used in low to medium power AC-DC power supplies
- Small footprint
- High impedance at applicable frequency
- High self-resonant frequency
- Dielectric withstanding voltage rated at 2500 VAC line to line

Verify operation with sample in actual circuit. Order samples at [www.rencousa.com](http://www.rencousa.com).

### MECHANICAL DIMENSIONS

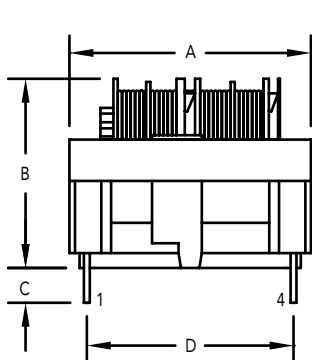
U.S. Standard (mm)

| PART NUMBER | A (MAX.)     | B (MAX.)     | C (TYP.)    | D $\pm 0.02$ (0.50) | E (MAX.)     | F $\pm 0.02$ (0.50) |
|-------------|--------------|--------------|-------------|---------------------|--------------|---------------------|
| RL-9750-2HM | 0.87 (22.00) | 0.69 (17.50) | 0.20 (5.00) | 0.67 (17.00)        | 0.89 (22.00) | 0.51 (13.00)        |

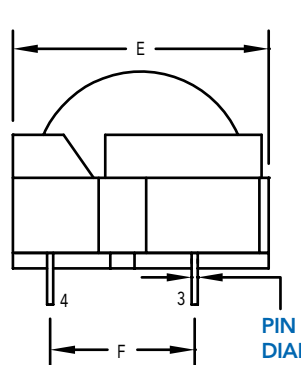
| PART NUMBER | PART WEIGHT    |
|-------------|----------------|
| RL-9750-2HM | 10.0g (0.35oz) |

| G $\pm 0.004$ (0.10) | H $\pm 0.004$ (0.10) |
|----------------------|----------------------|
| 0.67 (17.00)         | 0.51 (13.00)         |

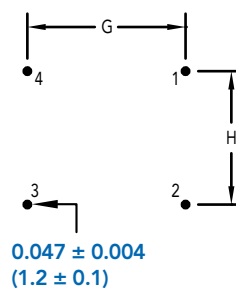
FRONT VIEW



SIDE VIEW



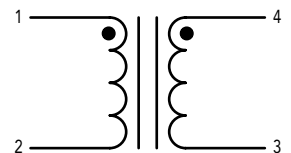
RECOMMENDED LAND PATTERN



$0.047 \pm 0.004$   
(1.2  $\pm$  0.1)

PIN  
DIAMETER  
 $0.031 \pm 0.004$   
(0.8  $\pm$  0.1) (4PL)

SCHEMATIC



**RENCO ELECTRONICS INC.**



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

# RL-9750-2HM

| Renco Part No.<br>RL-9750-2HM | Inductance<br>(mH) Min. | DCR (Ohms)<br>± 20% | Irms (A)<br>Max. |
|-------------------------------|-------------------------|---------------------|------------------|
| RL-9750-2HM-1.8               | 1.8                     | 0.162               | 1.5              |
| RL-9750-2HM-2.7               | 2.7                     | 0.248               | 1.1              |
| RL-9750-2HM-5.6               | 5.6                     | 0.504               | 0.8              |
| RL-9750-2HM-6.8               | 6.8                     | 0.571               | 0.7              |
| RL-9750-2HM-10.0              | 10.0                    | 0.782               | 0.6              |
| RL-9750-2HM-18.0              | 18.0                    | 1.271               | 0.5              |
| RL-9750-2HM-22.0              | 22.0                    | 1.707               | 0.4              |
| RL-9750-2HM-33.0              | 33.0                    | 2.691               | 0.3              |

## NOTES:

1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
2. I<sub>rms</sub> - CURRENT THAT CAUSES THE TEMPERATURE TO  
RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
3. INDUCTANCE TESTED AT 10 kHz, 0.1 V<sub>rms</sub>

