

# Roxburgh RID Series EMI Filters

## Single-phase Power Entry Module with Filter

The Roxburgh RID Series Power Entry Modules are general purpose single-stage filters specifically designed as line filters for 120/240 VAC devices. They provide good performance for both

common mode and differential mode interference and are rated at 250V. These filters are designed to be through-hole mounted in a cabinet or enclosure.

### Features

- Rated at 0-250 VAC, 0-60 Hz, single-phase
- 1A - 10A models
- Metal case, miniature type
- Through-hole mount flange
- 1/4" quick disconnect terminals

Filter performance curves are available on item page at [www.AutomationDirect.com](http://www.AutomationDirect.com)

### Applications

- Ideally suited for products that must conform to part 15, FCC regulations
- Digital electronics
- Personal computers and peripherals
- Measuring instruments
- Small equipment applications
- Monitors and display devices

### Standards and Certifications



\* RID-1042-H is not CSA



RID Module



RID Module Protective Sleeve  
SLV45

### RID Power Entry Modules

| Part Number                       | Price   | Description                            |
|-----------------------------------|---------|----------------------------------------|
| <a href="#"><u>RID-0142-H</u></a> | \$10.50 | IEC Inlet Filter 120/240VAC, 1-ph, 1A  |
| <a href="#"><u>RID-0342-H</u></a> | \$11.00 | IEC Inlet Filter 120/240VAC, 1-ph, 3A  |
| <a href="#"><u>RID-0642-H</u></a> | \$11.00 | IEC Inlet Filter 120/240VAC, 1-ph, 6A  |
| <a href="#"><u>RID-1042-H</u></a> | \$13.00 | IEC Inlet Filter 120/240VAC, 1-ph, 10A |
| <a href="#"><u>SLV45</u></a>      | \$4.00  | Protective Boot For RID Series         |

### General Specifications

|                                    |                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------|
| <b>Voltage Rating</b>              | 0-240V AC/DC 0-60 Hz                                                             |
| <b>Voltage Max.</b>                | 250V                                                                             |
| <b>Voltage Withstand</b>           | 1500VAC                                                                          |
| <b>Phase</b>                       | 1                                                                                |
| <b>UL/IEC Pollution Class</b>      | Degree II                                                                        |
| <b>Humidity</b>                    | 93% RH (non-condensing)                                                          |
| <b>Overload Current</b>            | 135% 2 hrs, 150% 60s                                                             |
| <b>Insulation Resistance</b>       | 500VDC >3.5M Ohms                                                                |
| <b>Climate Class (IEC 60068-1)</b> | -25/85/21                                                                        |
| <b>Temperature Rating</b>          | -13 to 185°F, -25° to 85°C                                                       |
| <b>Flammability (UL94)</b>         | V-0                                                                              |
| <b>Material</b>                    | Tin Plated Steel                                                                 |
| <b>Altitude*</b>                   | 1000m (3000m with derating)                                                      |
| <b>Mounting Clearance</b>          | >50mm Gap                                                                        |
| <b>Agency Approval**</b>           | UR: File# E191581 (Standard: UL1283)<br>CSA: File# 207414 (Standard: C22.2 No.8) |

\* Derate 1% per 100m after 1000m; Max 3000m.

\*\*To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific component part number web page.

# Roxburgh RID Series EMI Filters

| Specifications                      |                       |            |            |            |
|-------------------------------------|-----------------------|------------|------------|------------|
| Parameter                           | RID-0142-H            | RID-0342-H | RID-0642-H | RID-1042-H |
| Power (kW)                          | 0.25                  | 0.75       | 1.5        | 2.5        |
| Current Rating (A)                  | 1                     | 3          | 6          | 10         |
| SCCR Rating (kA)                    | 5                     |            |            |            |
| Ingress Protection                  | IP20                  |            |            |            |
| Temperature Rise                    | 30°C                  |            | 45°C       |            |
| Terminal Style                      | 1/4" quick disconnect |            |            |            |
| Operational Leakage Current (mA)    | 0.35                  |            |            |            |
| Total Resistance, Line to Load (mΩ) | 1000                  | 300        | 170        | 1000       |
| Residual Voltage (V@5s)             | 1V@5s                 |            |            |            |
| Heat Dissipation (W)                | 1                     | 2.7        | 6.12       | 100        |
| Weight, lbs (kg)                    | 0.1 (0.45)            |            |            |            |

## Dimensions

mm [inches]

