# Roxburgh RIP/RIQ Series EMI Filters

## Single-phase Power Entry Module with Filter, Fuse and Switch

The Roxburgh RIP/RIQ Series Power Entry Modules are specifically designed as single-stage line filters for 120/240V AC devices where fusing and a power switch are desired. They provide good performance for both common mode and differential mode interference and are rated at 250V. RIP filters are thru-hole flange mounted with screws. RIQ modules are designed to be through-hole snap-in style.

## Features

- 120/240V AC/DC, 50/60 Hz, single-phase
- 2A, 4A and 6A models
- One replaceable 5mm x 20mm glass fuse included in each module
- One spare 5mm x 20mm glass fuse included in each module fuse tray
- Metal case, miniature type
- Through-hole mount – Snap-in or Flanged
- 1/4in quick disconnect
- ON – OFF DPST switch
- Filter performance curves are available on item page at: **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 units

## Standards and Certifications



**RIP Module**



**RIQ Module**



**RIP Module with fuse tray removed**



**RIP/RIQ Module Protective Sleeve SLV47**

| RIP/RIQ Power Entry Modules | | |
|---|---|---|
| ***Part Number*** | ***Price*** | ***Description*** |
| ***RIP-0242-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 2A, SW/Fused, screw fix |
| ***RIP-0442-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 4A, SW/Fused, screw fix |
| ***RIP-0642-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 6A, SW/Fused, screw fix |
| ***RIQ-0242-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 2A, SW/Fused, snap |
| ***RIQ-0442-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 4A, SW/Fused, snap |
| ***RIQ-0642-H2*** | | IEC Inlet Filter 120/240 VAC, 1-ph, 6A, SW/Fused, snap |
| ***SLV47*** | | Protective boot for RIP/RIQ series |

| General Specifications | |
|---|---|
| ***Voltage Rating*** | 0–240V AC/DC 0–60 Hz |
| ***Voltage Max.*** | 250V |
| ***Voltage Withstand*** | 1500 VAC |
| ***Phase*** | 1 |
| ***UL/IEC Pollution Class*** | Degree II |
| ***Humidity*** | 93% RH (non-condensing) |
| ***Overload Current*** | 135% 2 hrs, 150% 60s |
| ***Insulation Resistance*** | 500V DC >3.5 MΩ |
| ***Climate Class (IEC 60068-1)*** | -25/85/21 |
| ***Temperature Rating*** | -13 to +185 °F [-25 to +85 °C] |
| ***Flammability (UL94)*** | V-0 |
| ***Material*** | Nickel Plated Steel |
| ***Altitude**** | 1000m (3000m with derating) |
| ***Mounting Clearance*** | >50mm Gap |
| ***Agency Approval**** | CE (EN 60939-1), UR: File# E191581 (Standard: UL1283), 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.*

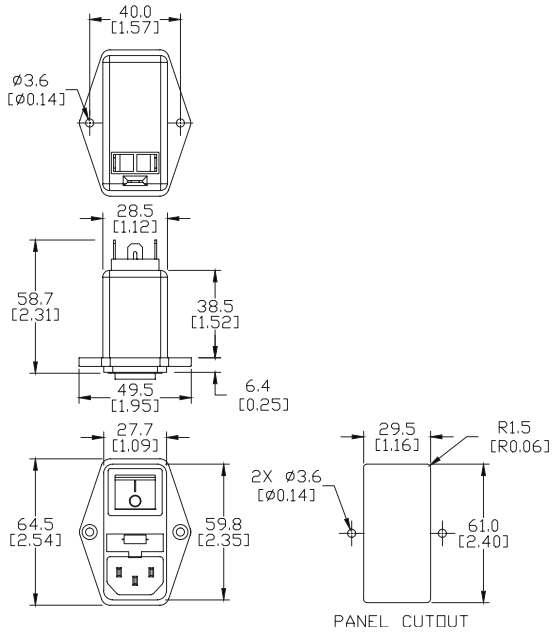
# Roxburgh RIP/RIQ Series EMI Filters

| Specifications | | | | | | |
|---|---|---|---|---|---|---|
| *Parameter* | *RIP-0242-H2* | *RIP-0442-H2* | *RIP-0642-H2* | *RIQ-0242-H2* | *RIQ-0442-H2* | *RIQ-0642-H2* |
| *Max. Power (kW)* | 0.5 | 1.0 | 1.5 | 0.5 | 1.0 | 1.5 |
| *Current Rating (A)* | 2 | 4 | 6 | 2 | 4 | 6 |
| *SCCR Rating (kA)* | 5 | | | | | |
| *Ingress Protection* | IP20 | | | | | |
| *Temperature Rise* | 40 °C | 45 °C | | 40 °C | 45 °C | |
| *Terminal Style* | 1/4in quick disconnect | | | | | |
| *Operational Leakage Current (mA)* | 0.35 | | | | | |
| *Total Resistance, Line to Load (mΩ)* | 500 | 250 | 170 | 500 | 250 | 170 |
| *Residual Voltage (V @ 5s)* | 1V @ 5s | | | | | |
| *Heat Dissipation (W)* | 2 | 4 | 6.12 | 2 | 4 | 6.12 |
| *Weight (lb [kg])* | 0.1 [0.045] | | | | | |

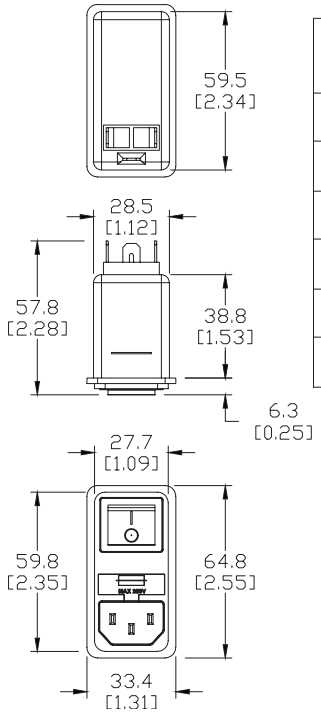
## Dimensions

***mm [inches]***

**RIP Filter (Flanged)**




**RIQ Filter (Snap-In)**




| PANEL THICKNESS mm | CUTOUT HEIGHT "A" mm |
|---|---|
| 0.8 | 61.8 |
| 1.0 | 62.2 |
| 1.2 | 62.6 |
| 1.5 | 62.8 |
| 1.8 | 62.9 |
| 2.0 | 63.0 |