

# 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:

### 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
RID-0142-H		IEC Inlet Filter 120/240VAC, 1-ph, 1A
RID-0342-H		IEC Inlet Filter 120/240VAC, 1-ph, 3A
RID-0642-H		IEC Inlet Filter 120/240VAC, 1-ph, 6A
RID-1042-H		IEC Inlet Filter 120/240VAC, 1-ph, 10A
SLV45		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) 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]

