

# Roxburgh RES10 Series EMI Filters

## Single-phase General Purpose EMI Filters

The Roxburgh RES10 Series single-stage filters are specifically designed as line filters for 120/240 VAC devices. RES10 Series provide excellent attenuation performance for RFI

and general purpose filtering applications. The filters are designed for fast and easy integral mounting on chassis hardware.

### Features

- 0-240 VAC/DC, 0-400 Hz, single-phase
- 1A- 30A models
- Metal case, miniature type
- 1/4" quick disconnect or screw terminals
- Quick and easy mounting

\*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
- Office automation
- Building automation
- Monitors and display units
- Household and consumer devices
- Machinery design

### Standards and Certifications



RES EMI Filters		
Part Number	Price	Description
RES10F01	\$10.35	EMI Input Filter 120/240 VAC, 1-ph, 1A
RES10F03	\$10.35	EMI Input Filter 120/240 VAC, 1-ph, 3A
RES10F06	\$10.35	EMI Input Filter 120/240 VAC, 1-ph, 6A
RES10F10	\$10.35	EMI Input Filter 120/240 VAC, 1-ph, 10A
RES10F12	\$13.35	EMI Input Filter 120/240 VAC, 1-ph, 12A
RES10F13	\$13.35	EMI Input Filter 120/240 VAC, 1-ph, 13A
RES10F16	\$11.00	EMI Input Filter 120/240 VAC, 1-ph, 16A
RES10S20	\$16.00	EMI Input Filter 120/240 VAC, 1-ph, 20A
RES10S30	\$36.00	EMI Input Filter 120/240 VAC, 1-ph, 30A

General Specifications	
<b>Voltage Rating</b>	0-240V AC/DC, 0-400 Hz
<b>Voltage Max.</b>	250V
<b>Voltage Withstand</b>	3000VDC/2 sec
<b>Phase</b>	1
<b>UL/IEC Pollution Class</b>	Degree II
<b>Humidity</b>	93% RH (non-condensing)
<b>Overload Current</b>	135% 2Hrs, 150% 60s
<b>Insulation Resistance</b>	500VDC >3.5 MΩ
<b>Climate Class (IEC 60068-1)</b>	25/100/21
<b>Temperature Rise</b>	60°C
<b>Temperature Rating</b>	-13 to 212°F (-25 to 100°C)
<b>Flammability (UL94)</b>	V-2
<b>Case Material</b>	Nickel Plated Steel
<b>Altitude*</b>	1000m (3000m with derating)
<b>Mounting Clearance</b>	>50mm Gap
<b>Agency Approval**</b>	cURus: File# E191581 (Standard: UL1283 & 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.

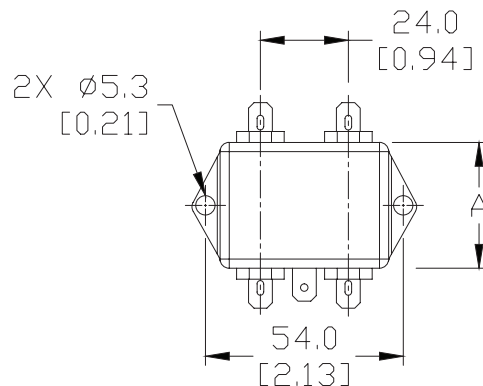
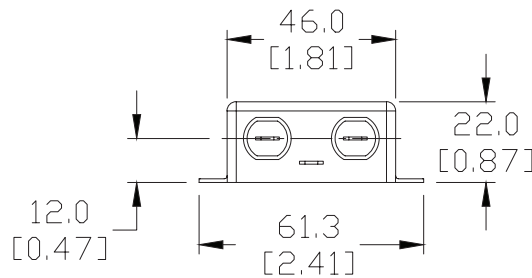
# Roxburgh RES10 Series EMI Filters

Specifications									
Parameter	RES10F01	RES10F03	RES10F06	RES1F10	RES1F12	RES1F13	RES10F16	RES10S20	RES10S30
Max. Power (kW)	0.25	0.75	1.5	2.5	3	3.25	4	5	7.5
Current Rating (A)	1	3	6	10	12	13	16	20	30
SCCR Rating (kA)	5								
Ingress Protection	IP20								
Terminal Style	1/4" Quick Disconnect							M4 Stud	
Torque, lb-in (N·m)	N/A							11.5 (1.3)	
Operational Leakage Current (mA)	0.74								0.87
Total Resistance, Line to Load (mΩ)	300	100	25	50	45	25	50	25	
Residual Voltage (V@5s)	1V@5s								
Heat Dissipation (W)	0.6	0.9		5	6.48	4.23	12.8	20	22.5
Weight lbs (kg)	0.15 (0.07)			0.2 (0.09)		0.15 (0.07)	0.29 (0.13)	0.46 (0.21)	1.0 (0.42)

## Dimensions

mm [inches]

- RES10F01
- RES10F03
- RES10F06
- RES10F13

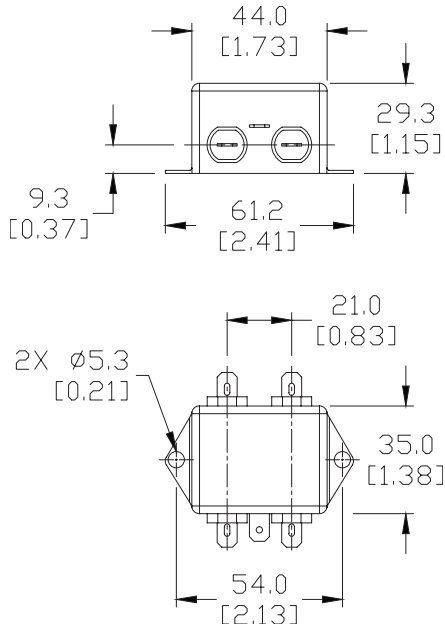


PART NUMBER	A
RES10F01	34.3 [1.35]
RES10F03	32.0 [1.26]
RES10F06	32.0 [1.26]
RES10F13	34.3 [1.35]

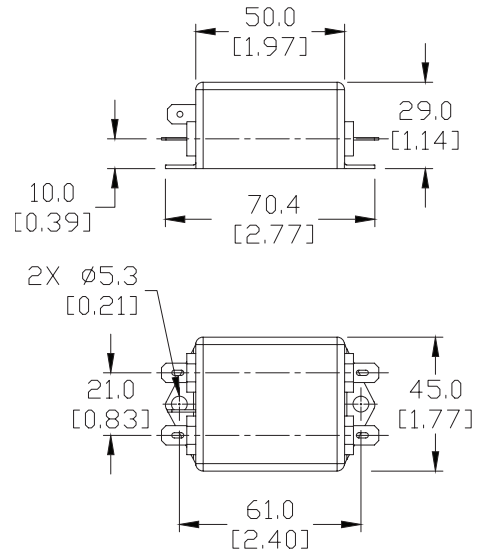
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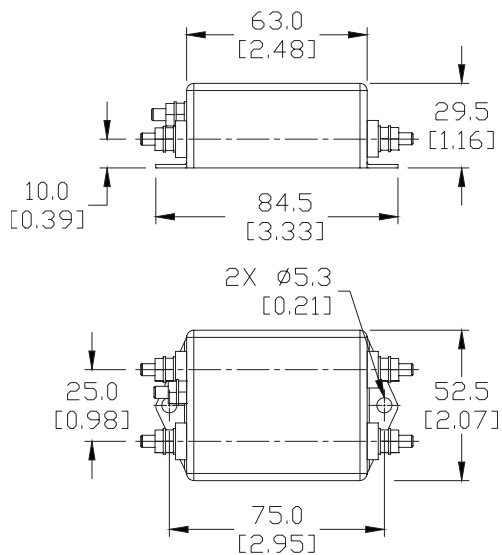
**RES10F10**  
**RES10F12**



**RES10F16**



**RES10S20**



**RES10S30**

