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
- 1/4in quick disconnect or screw terminals
- Quick and easy mounting

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

Standards and Certifications

c UL us

RoHS 2002/95/EC



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

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

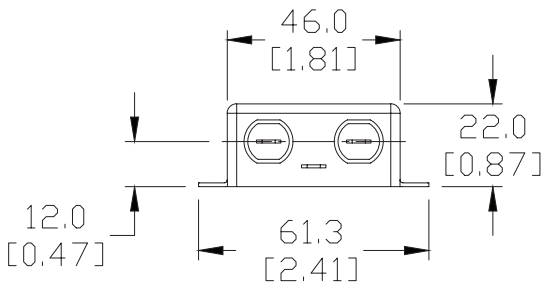
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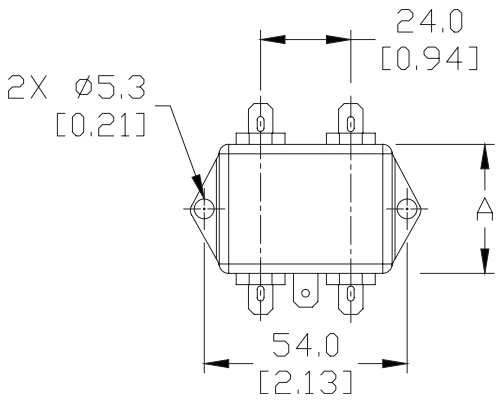
Specifications									
Parameter	*RES10F01*	*RES10F03*	*RES10F06*	*RES10F10*	*RES10F12*	*RES10F13*	*RES10F16*	*RES10S20*	*RES10S30*
Max. Power (kW)	0.25	0.75	1.5	2.5	3	3.25	4	5	7.5
Current Rating (A)	1	3	6	10	12	13	16	20	30
SCCR Rating (kA)	5								
Ingress Protection	IP20								
Terminal Style	1/4in 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 (lb [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





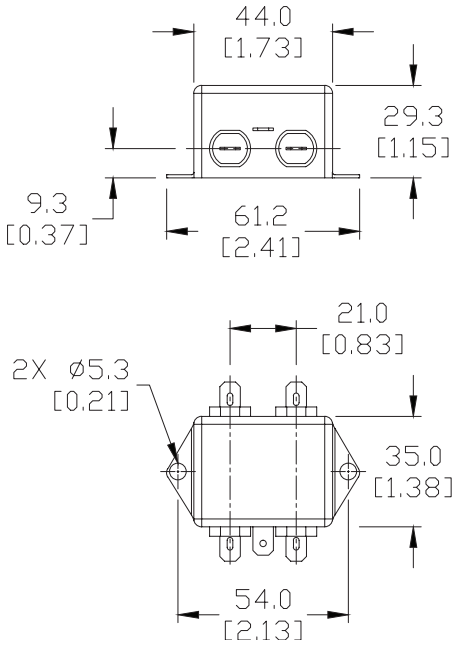
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RES10F06	32.0 [1.26]
RES10F13	34.3 [1.35]

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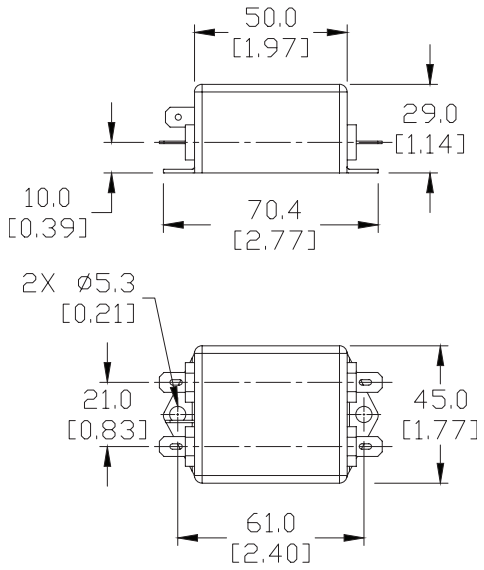
Dimensions

mm [inches]

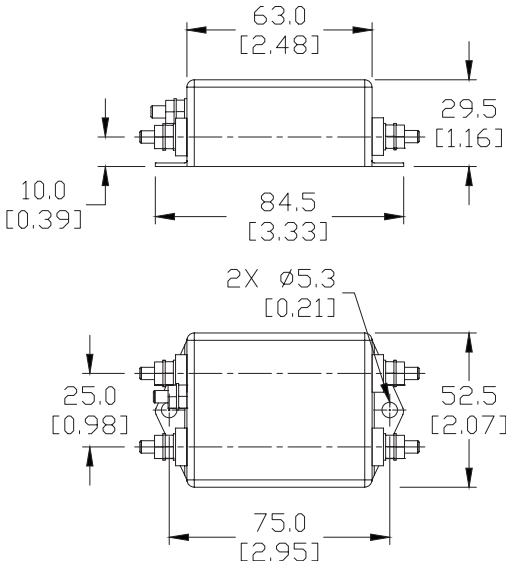
RES10F10
RES10F12



RES10F16



RES10S20



RES10S30

