Roxburgh RES70 Series EMI Filters

Single-phase General Purpose EMI Filters - High Performance

The Roxburgh RES70 Series filters are specifically designed as line filters for 120/240V AC devices. RES70 Series filters provide high performance for both common mode and

differential mode interference and are rated up to 250V. The filters are chassis mount and should be installed inside a cabinet or enclosure.

Features

- 0-240VAC/DC, 0-400 Hz, single-phase
- 1A 36A models
- Metal case, miniature type
- 1/4" quick disconnect or screw terminals
- Panel mount
- Filter performance curves are available on item page at <u>www.AutomationDirect.com</u>

Applications

- Ideally suited for products that must conform to part 15, FCC regulations
- Digital electronics
- Personal computers and peripherals
- Measuring instruments
- For monitors and display units

Standards and Certifications





RES EMI Filters						
Part Number	Price	Description				
<u>RES70F01</u>	\$40.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 1A				
<u>RES70F03</u>	\$40.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 3A				
<u>RES70F06</u>	\$87.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 6A				
<u>RES70F10</u>	\$107.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 10A				
<u>RES70F12</u>	\$108.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 12A				
<u>RES70F16</u>	\$114.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 16A				
<u>RES70S25</u>	\$158.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 25A				
<u>RES70S36</u>	\$160.00	EMI Input filter, 120/240 VAC, 1-phase, two-stage, 36A				

General Specifications						
Voltage Rating	0-240VAC/DC, 0-400 Hz					
Voltage Max.	250V					
Voltage Withstand	3000VDC/2 sec					
Phase	1					
UL/IEC Pollution Class	Degree II					
Humidity	93% RH (non-condensing)					
Overload Current	135% 2Hrs, 150% 60s					
Insulation Resistance	500VDC >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.

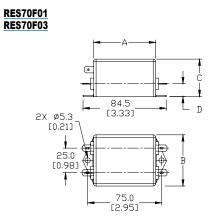
**To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific component part number web page.

1-800-633-0405 For the latest prices, Roxburgh RES70 Series EMI Filters

Specifications									
Parameter	<u>RES70F01</u>	<u>RES70F03</u>	<u>RES70F06</u>	<u>RES70F10</u>	<u>RES70F12</u>	<u>RES70F16</u>	<u>RES70S25</u>	<u>RES70S36</u>	
Max. Power (kW)	0.25	0.75	1.5	2.5	3	4	6.25	9	
Current Rating (A)	1	3	6	10	12	16	25	36	
SCCR Rating (kA)	5								
Ingress Protection	IP20								
Terminal Style	1/4" Quick Disconnect M4 Stud						Stud		
Torque, lbs in (N·m)	N/A						11.5 (1.3)		
<i>Operational Leakage Current (mA)</i>	0.734			0.002	0.734		-	0.867	
Total Resistance, Line to Load (mΩ)	800	325	200	5	0 100				
Residual Voltage (V@5s)	1V@5s								
Heat Dissipation (W)	0.8	2.925	7.2	5	7.2	25.6	62.5	129.6	
Weight, Ibs (kg)	0.042 (0.19)	0.55 (0.25)	1.0 (0.45)	1.43 (0.65)	1.47(0.67)	1.32 (0.6) 1.74 (0.79)		(0.79)	

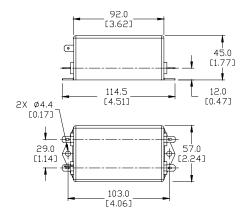
Dimensions

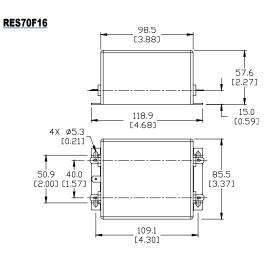
mm [inches]



PART NUMBER	А	В	С	D
RES70F01	64.0	52.0	30.0	10.0
	[2.52]	[2.05]	[1.18]	[0.39]
RES70F03	63.0	51.0	38.0	12.0
	[2.48]	[2.01]	[1.50]	[0.47]

RES70F06

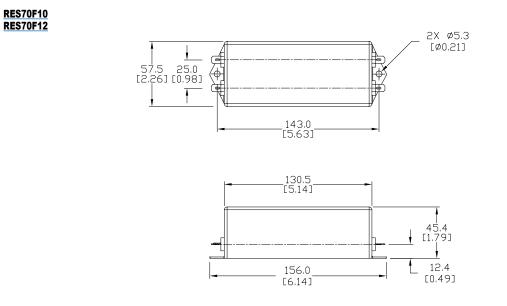




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Dimensions

mm [inches]



RES70S25 RES70S36

