

RES70 Chassis Mounted Filter

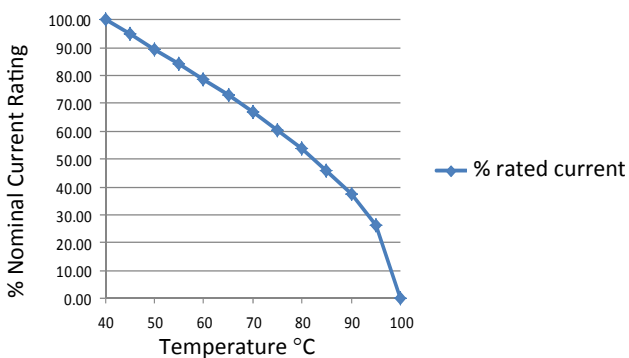
Multi-Stage, High Differential, High Common Mode and High Frequency

Roxburgh's RES70 series is a multi-stage EMC filter offering high differential mode, high common mode and high frequency attenuation.

Designed for quick and easy chassis mounting, these general purpose filters are suitable for a broad range of applications including noisy environments where increased filter performance is required.



Temperature Derating Curve for EMC Filters



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Features:

- Multi-stage
- High differential and high common mode attenuation
- High frequency attenuation
- UL approved E191581
- For use from DC to 400Hz
- 1 Amp to 36 Amp

Benefits:

- Compact size for rated current
- Fast-on, screw or wire terminations
- Quick and Easy Mounting
- Available from UK Stock

Application Examples:

- Lighting
- Drives
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Building automation
- Machinery
- Electronic data/communication processing equipment
- Office automation

Full technical specification on page 2

Performance curves on page 3

Other options in this range on page 4

DEM Manufacturing

Deltron Emcon House
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Scunthorpe, North Lincolnshire
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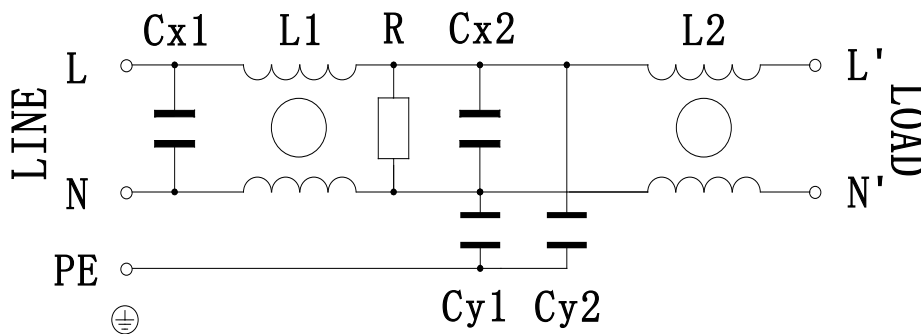
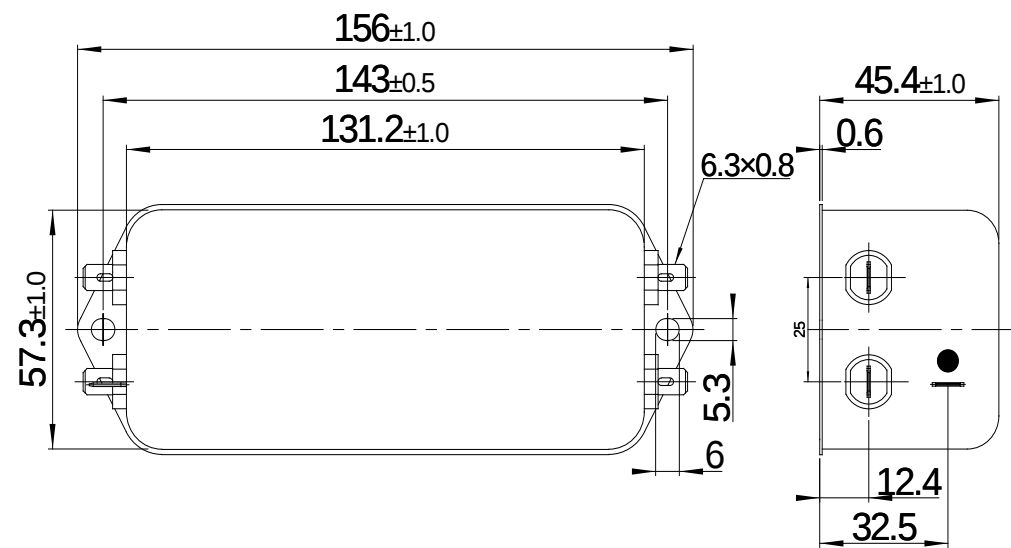
ROXBURGH *EMC*



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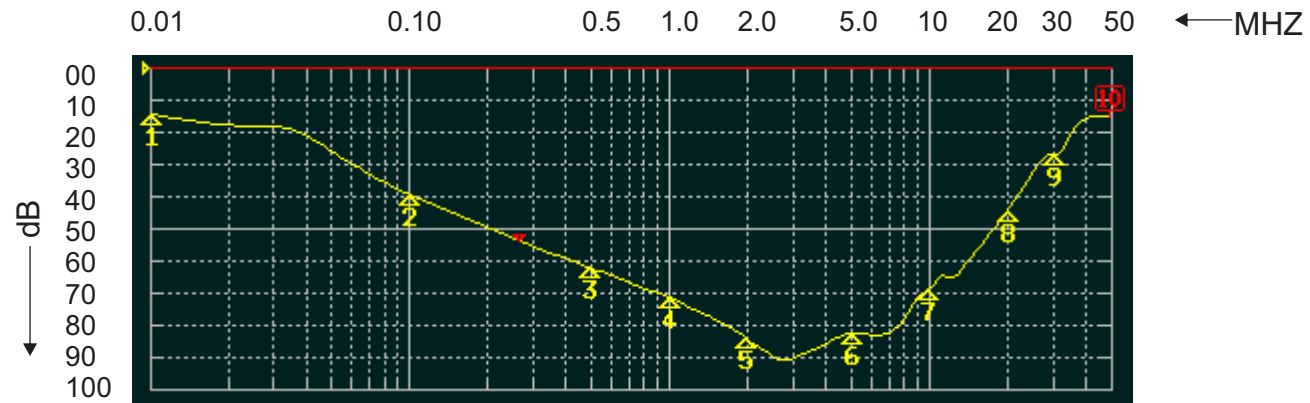
Email: sales@dem-uk.com

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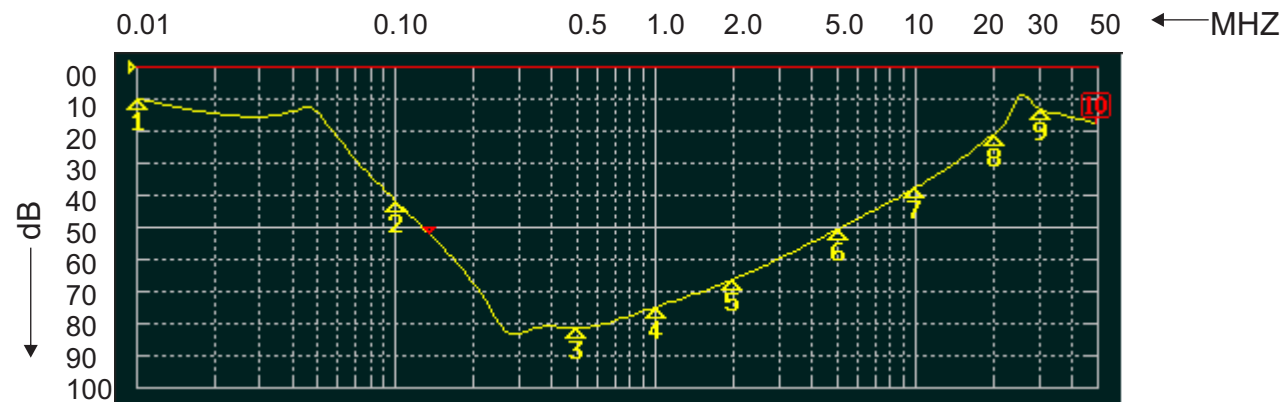
Circuit diagram:		Dimensions(mm):					
							
Electrical parameters:							
Rated Voltage:		120/250VAC					
Rated Current at an ambient temp:		10A@40°C					
Operating Frequency:		50/60Hz					
Climatic Class(IEC60068-1):		25/100/21					
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)		0.8mA max (RES70F10-M 0mA)					
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES70F10-M 0mA)					
Test Voltage(100%)for 2 sec:							
L-N:		1100VDC/20mA					
L/N-PE:		2250VDC/20mA					
Filter parameters:							
Total Inductance(L-L'/N-N'):				9mH +50%,-35%			
Total Capacitance(L-N/L'-N'):				2uF +/-20%			
Total Capacitance(L/N-PE) (RES70F10-M):				9.4nF +/-20% (0nF)			
Total Resistance(L-N/L'-N'):				220KΩ +/-10%			
Weight(Approximate):				650g			
Safety certification				Technical Specification			
UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5	
ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5	
CE	☒	VDE	☐	approved by	Henry Huang	2020-8-5	
 +44 (0)1724 273200 sales@dem-uk.com www.dem-uk.com/roxburgh				Part RES70F10		single-phase emc filter	
				Number (Alternate RES70F10-M - no Y caps)		stage marker	V1.03

ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES70F10



COMMON MODE



DIFFERENTIAL MODE



RES70 Chassis Mounted Filter

Multi-Stage, High Differential, High Common Mode and High Frequency

Options Available:

Part Number	Rated Current @40°C A	Leakage Current @ 230V/50Hz mA	Inductance ΣL mH	Capacitance ΣCx uF	Capacitance ΣCy nF	Resistance ΣR K Ω	Connection Type		
									
RES70F01	1	0.73	44	0.66	9.4	1000	F	W	
RES70F03	3	0.73	19.6	0.94	9.4	470	F	W	
RES70F06	6	0.73	15.6	2	9.4	220	F	W	
RES70F10	10	0.73	9	2	9.4	220	F	W	
RES70F12	12	0.73	6.5	2	9.4	220	F	W	
RES70F16	16	0.73	3.6	2	9.4	220	F	W	S
RES70S25	25	0.73	4	4.4	9.4	220			S
RES70S36	36	0.86	2.46	4.4	9.4	220			S

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