

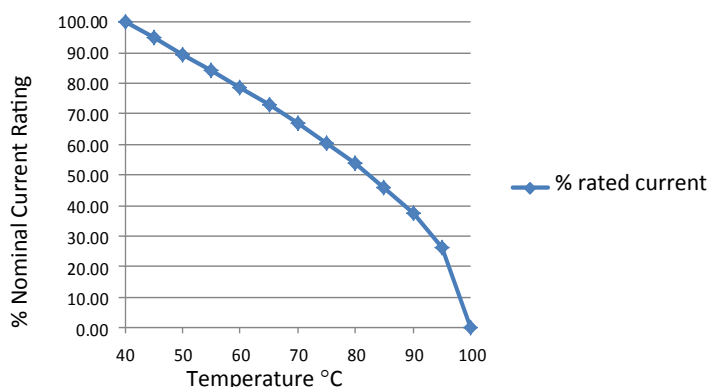
RES70-M Multi-Stage Performance Filter

Medical Applications

Roxburgh EMC's RES70-M range are two-phase filters, designed specifically for the medical industry. They offer a high differential and high common mode attenuation with high frequency. There are eight variations to select from with rated current between 1amp and 36amp.



Temperature Derating Curve for EMC Filters Rated at 40°C Ambient and 100°C Maximum



Call us on:

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Features:

- Two-Phase Filter
- High Differential Mode Performance
- UL Approved E191581
- For use from DC to 400Hz

Benefits:

- Compact size for rated current
- Fast-on, screw or wire terminations
- Quick and easy mounting

Applications:

These filters are designed for applications within the **medical industry**.

Full technical specification on page 2

Performance Curves on page 3

Other options in this range on page 4

DEM Manufacturing

Deltron Emcon House
Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe, North Lincolnshire.
DN15 8RF

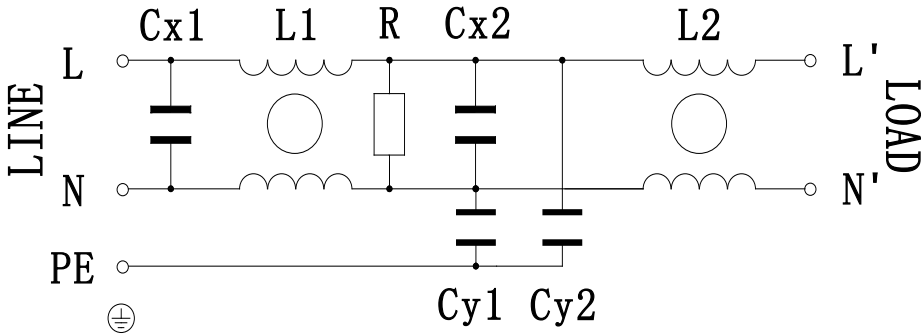
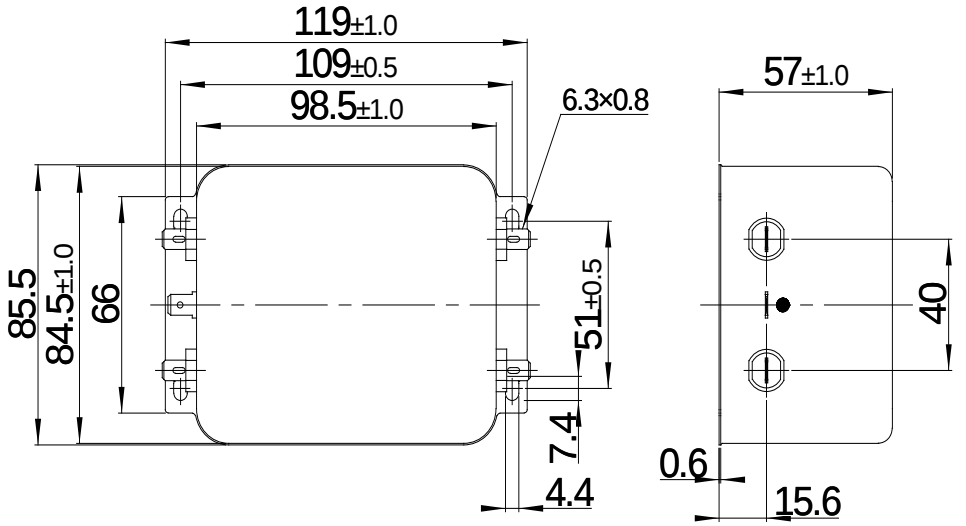
ROXBURGH EMC



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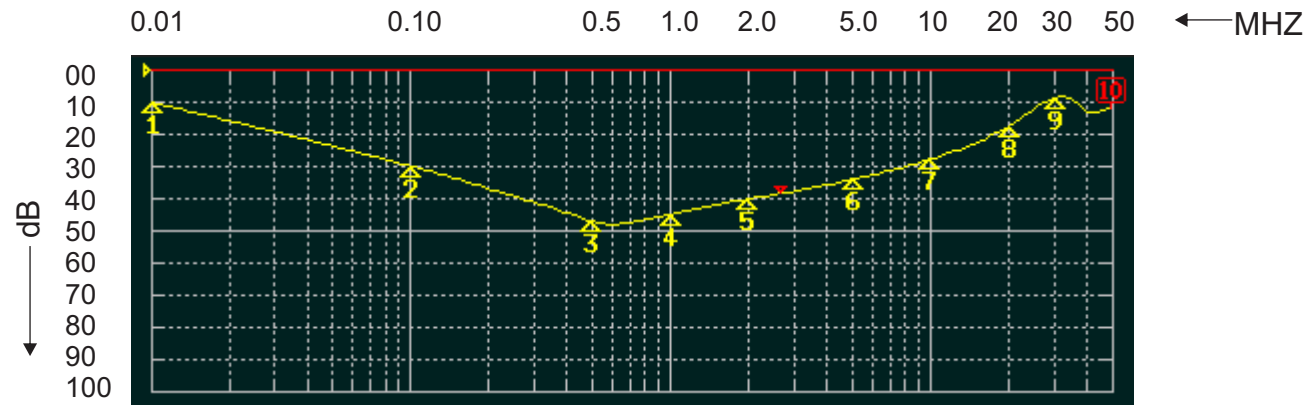
Web: www.dem-uk.com/roxburgh

Circuit diagram:		Dimensions(mm):						
								
Electrical parameters:		Filter parameters:						
Rated Voltage:	120/250VAC	Total Inductance(L-L'/N-N'):		5.6mH +50%,-35%				
Rated Current at an ambient temp:	16A@40°C	Total Capacitance(L-N/L'-N'):		2uF +/-20%				
Operating Frequency:	50/60Hz	Total Capacitance(L/N-PE) (RES70F16-M):		9.4nF +/-20% (0nF)				
Climatic Class(IEC60068-1):	25/100/21	Total Resistance(L-N/L'-N'):		220KΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.8mA max (RES70F16-M 0mA)	Weight(Approximate):		900g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES70F16-M 0mA)	Safety certification			Technical Specification			
Test Voltage(100%)for 2 sec: L-N: L/N-PE:		UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5
	1100VDC/20mA	ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5
	2250VDC/20mA	CE	☒	VDE	☐	approved by	Henry Huang	2020-8-5
 +44 (0)1724 273200 sales@dem-uk.com www.dem-uk.com/roxburgh		Part RES70F16				single-phase emc filter		
		Number (Alternate RES70F16-M - no Y caps)				stage marker	V1.03	

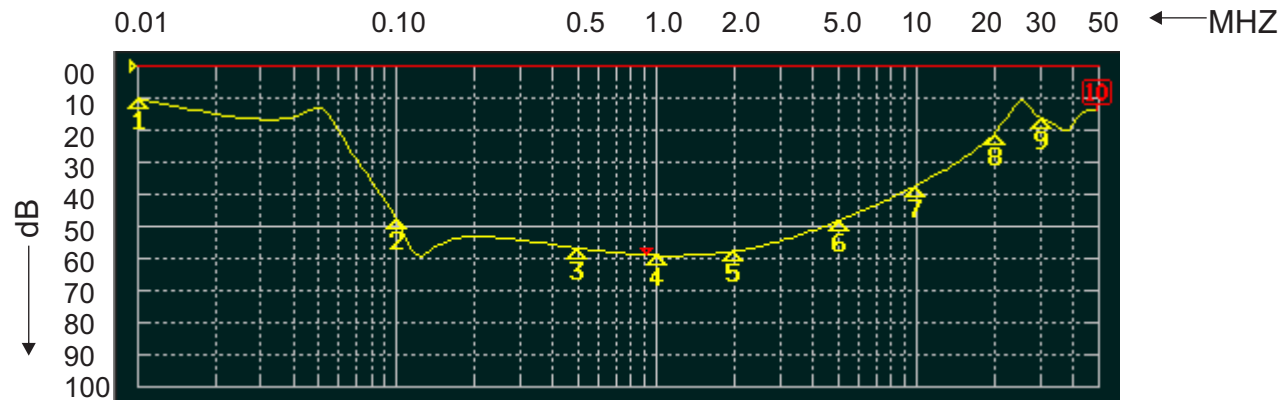
ROXBURGH EMC

FILTER INSERTION LOSS CHARACTERISTICS CISPR 17 - 50 OHM METHOD

RES70F16-M



COMMON MODE



DIFFERENTIAL MODE



RES70-M Multi-Stage Performance Filter

Medical Applications

Options Available:

Part Number	Rated Current @40°C A	Leakage Current @ 230V/50Hz mA	Inductance ΣL mH	Capacitance ΣCx uF	Resistance ΣR K Ω	Connection Type		
								
RES70F01-M	1	0.002	22	0.33	1000	F	W	
RES70F03-M	3	0.002	9.8	0.47	470	F	W	
RES70F06-M	6	0.002	7.8	1	220	F	W	
RES70F10-M	10	0.002	4.5	1	220	F	W	
RES70F12-M	12	0.002	3.25	1	220	F	W	
RES70F16-M	16	0.002	2.8	1	220	F	W	S
RES70S25-M	25	0.002	2	2.2	220			S
RES70S36-M	36	0.002	1.23	2.2	220			S

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