

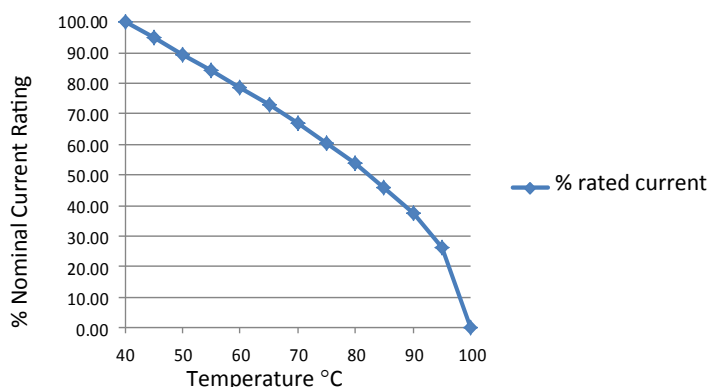
RES70-M Multi-Stage Performance Filter

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



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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.
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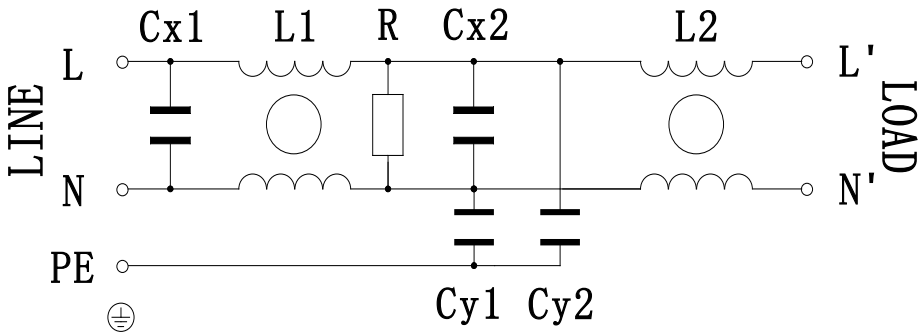
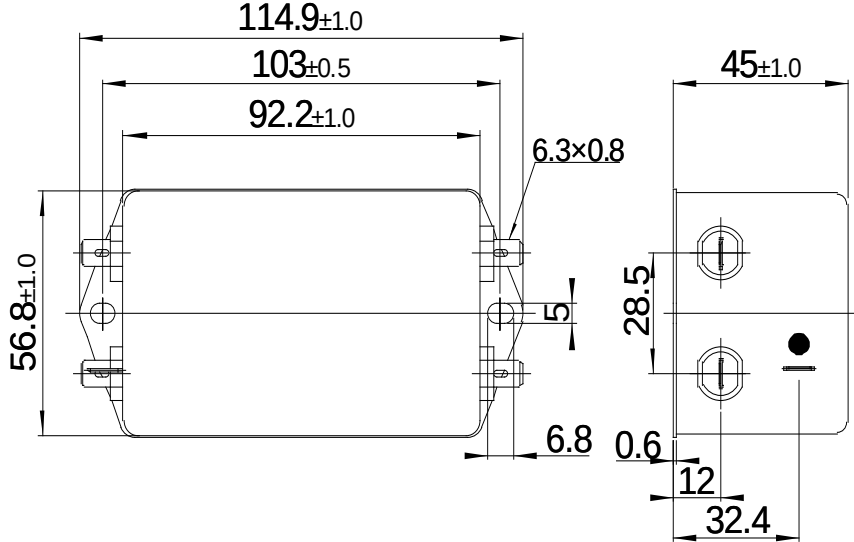
ROXBURGH EMC



Tel: +44 (0) 1724 273200

Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:			Dimensions(mm):			
						
Electrical parameters:						
Rated Voltage:		120/250VAC				
Rated Current at an ambient temp:		6A@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 (RES70F06-M 0mA)				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES70F06-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'):			15.6mH +50%,-35%			
Total Capacitance(L-N/L'-N'):			2uF +/-20%			
Total Capacitance(L/N-PE) (RES70F06-M):			9.4nF +/-20% (0nF)			
Total Resistance(L-N/L'-N'):			220KΩ +/-10%			
Weight(Approximate):			430g			
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
Part RES70F06				single-phase emc filter		
Number (Alternate RES70F06-M - no Y caps)				stage marker	V1.03	

ROXBURGH

EMC

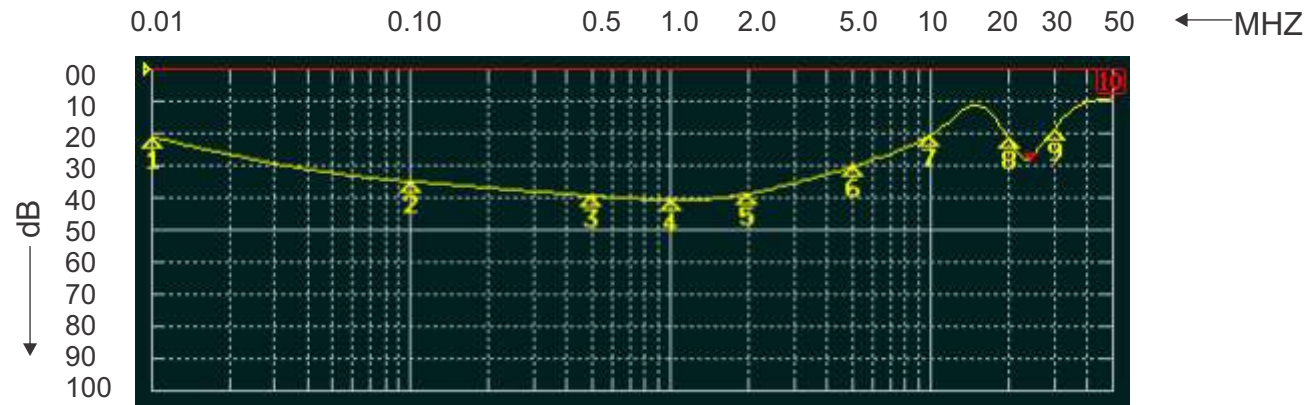
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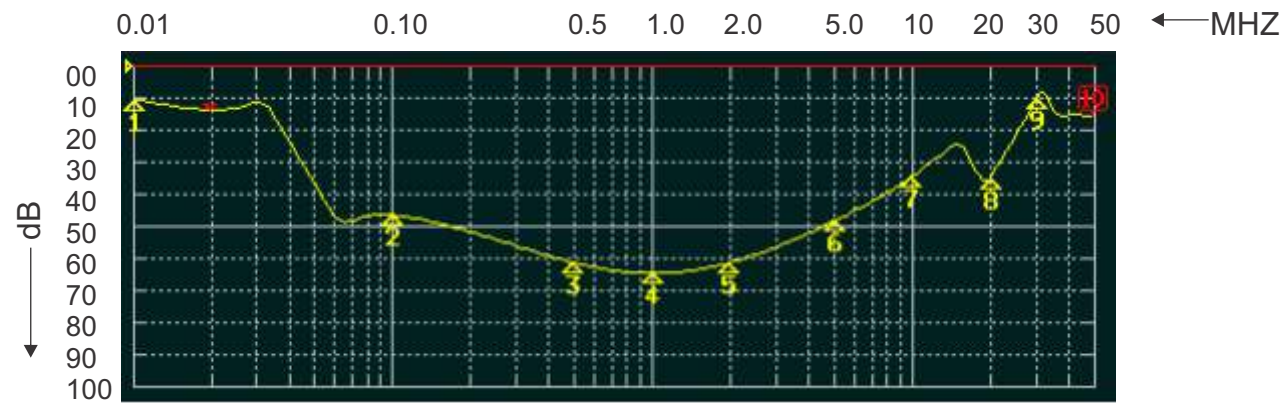
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ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES70F06-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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