

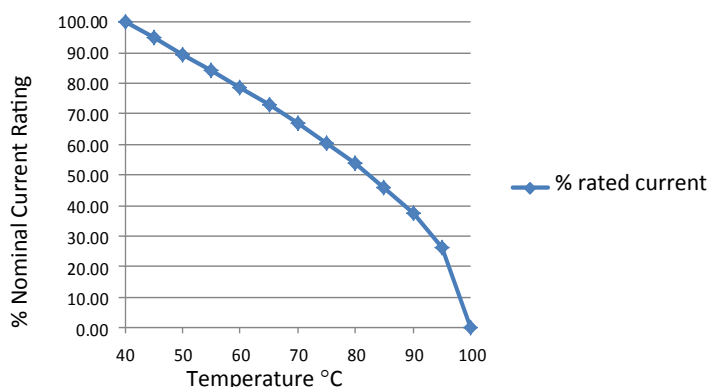
RES70-M Multi-Stage Performance Filter

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

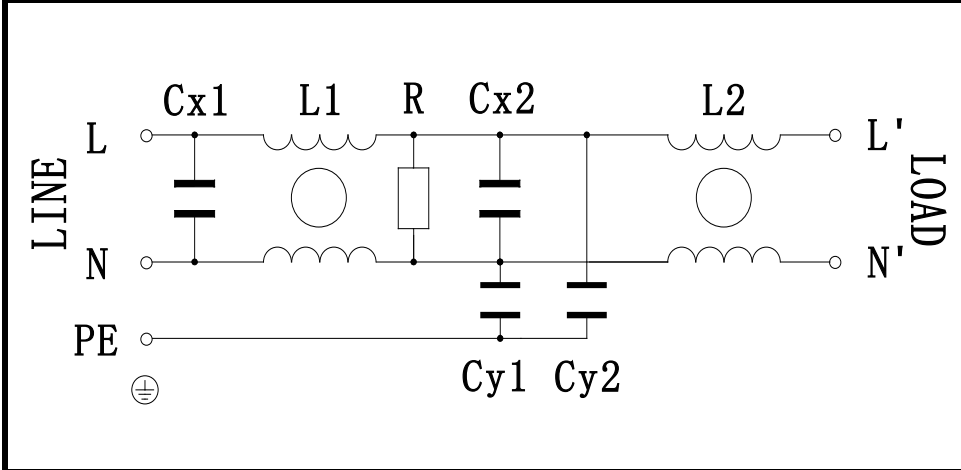


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Web: www.dem-uk.com/roxburgh

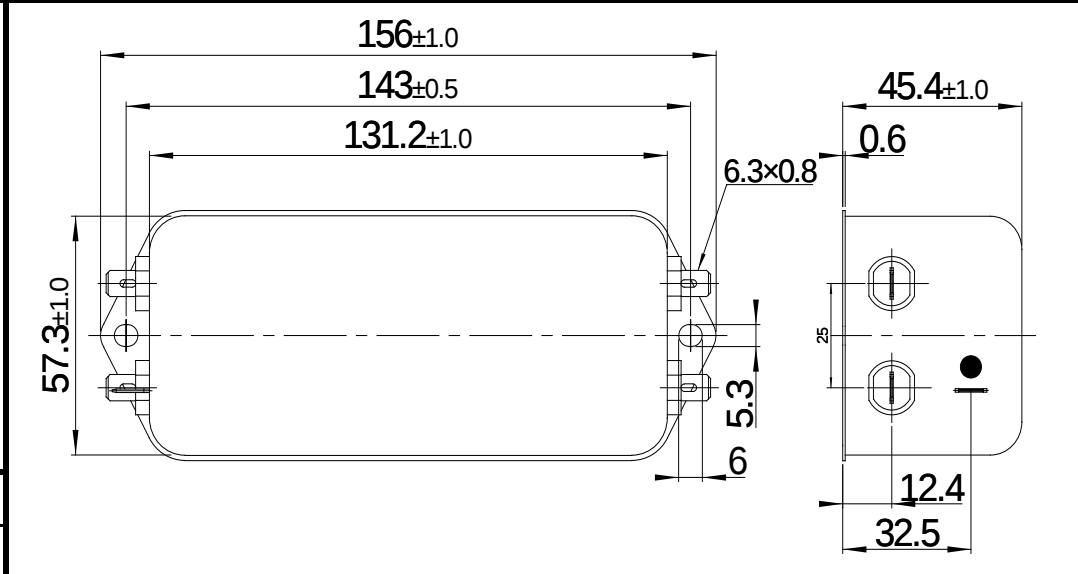
Circuit diagram:



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: L/N-PE:	
	1100VDC/20mA
	2250VDC/20mA

Dimensions(mm):



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'):	220K Ω +/-10%
Weight(Approximate):	650g

Safety certification

UL	☒	CSA	☒
ENEC	☒	CQC	☐
CE	☒	VDE	☐

Technical Specification

compiled by	Jay Zhang	2020-8-5
reviewed by	Pallas Wang	2020-8-5
approved by	Henry Huang	2020-8-5



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Part **RES70F10**

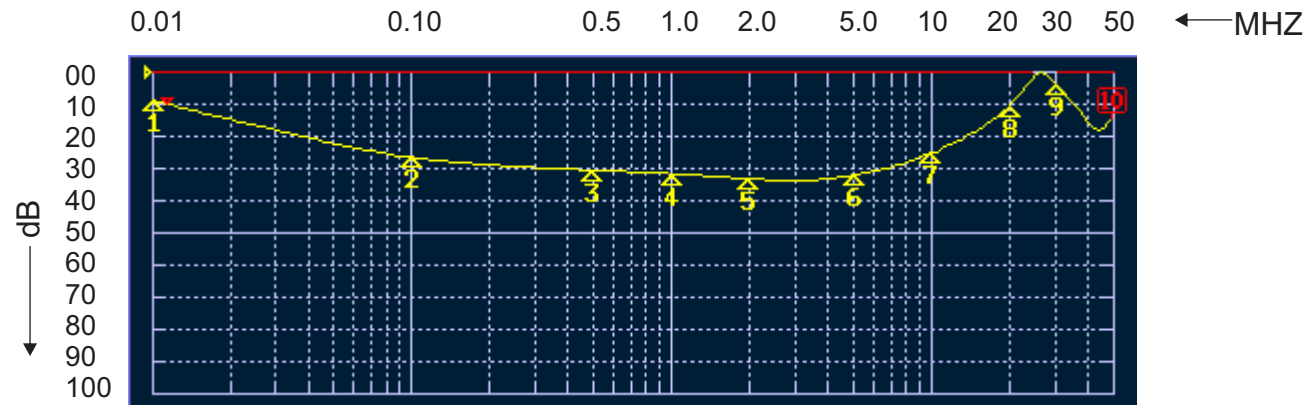
Number (Alternate RES70F10-M - no Y caps)

single-phase emc filter

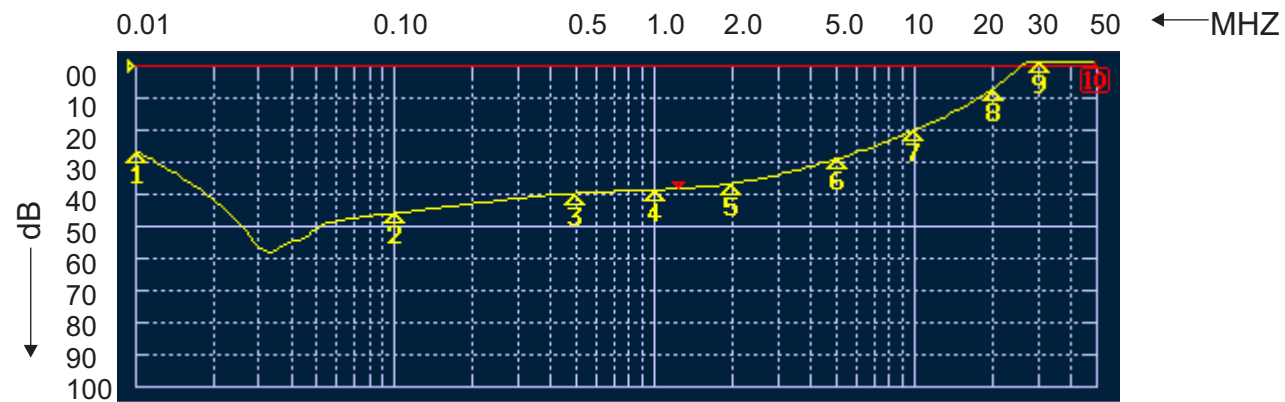
stage marker	V1.03
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ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES70F10-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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