

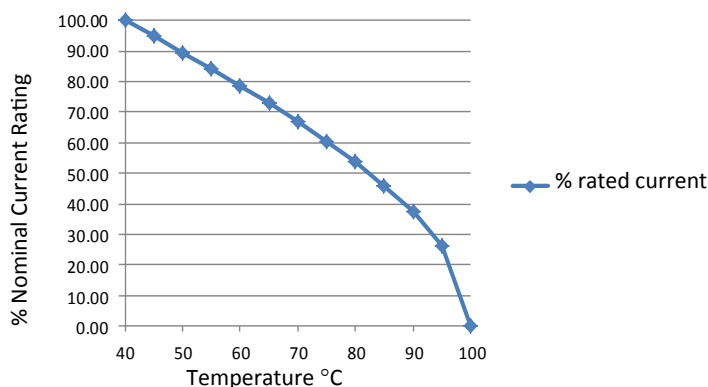
RES90-M Excellent Attenuation Performance

Medical Applications

Roxburgh EMC's RES90-M range are two-stage filters, designed specifically for the medical industry. This series offers excellent attenuation performance and are well suited for noisy applications requiring excellent filter performance. There are ten variations to select from with rated current between 1amp and 30amp.



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
- Excellent Attenuation 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

Other options in this range on page 3

DEM Manufacturing

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

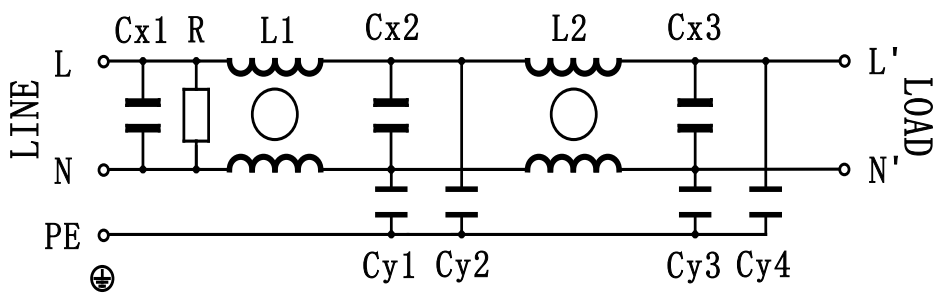
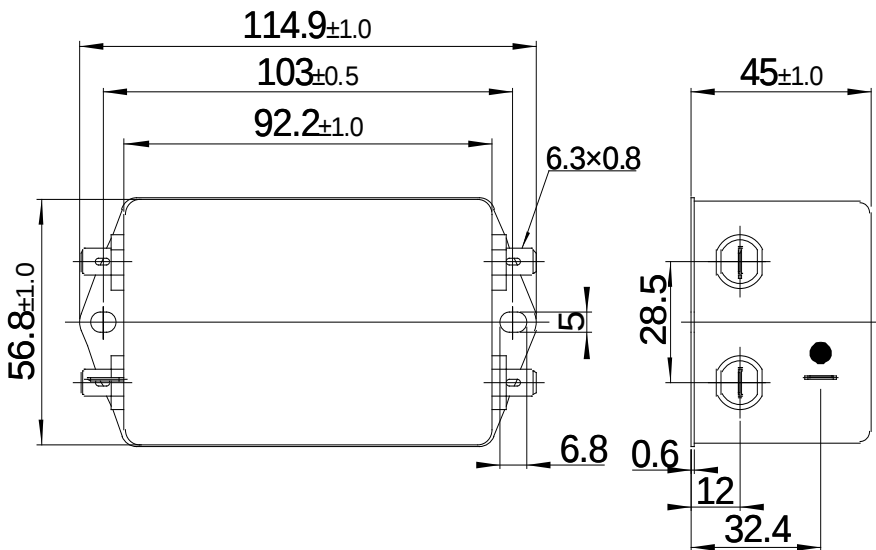
ROXBURGH *EMC*



Tel: +44 (0) 1724 273200

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Circuit diagram:		Dimensions(mm):								
										
Electrical parameters:		Filter parameters:								
Rated Voltage:		120/250VAC		Total Inductance(L-L'/N-N'):		5.4mH +50%,-35%				
Rated Current at an ambient temp:		20A@40°C		Total Capacitance(L-N/L'-N'):		3uF +/-20%				
Operating Frequency:		50/60Hz		Total Capacitance(L/N-PE) (RES90F20-M):		22nF +/-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%)		1.12mA max (RES90F20-M 0mA)		Weight(Approximate):		515g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.65mA max (RES90F20-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 RES90F20						single-phase emc filter		
		Number (Alternate RES90F20-M - no Y caps)						stage marker	V1.03	

RES90-M Excellent Attenuation Performance

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		
								
RES90F01-M	1	0.002	20	0.22	680	F	W	
RES90F03-M	3	0.002	14	0.33	470	F	W	
RES90F04-M	4	0.002	14	0.33	470	F	W	
RES90F06-M	6	0.002	8	0.47	330	F	W	
RES90F08-M	8	0.002	8	0.47	330	F	W	
RES90F10-M	10	0.002	8	0.47	330	F	W	
RES90F12-M	12	0.002	4	1	220	F	W	
RES90F16-M	16	0.002	4	1	220	F	W	
RES90F20-M	20	0.002	2.7	1	220	F		S
RES90S30-M	30	0.002	1.5	1	220			S

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