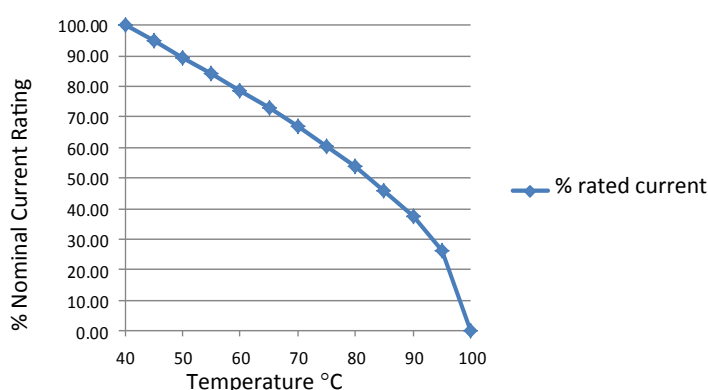


RES20-M General Purpose EMI Filters

Medical Applications

Roxburgh EMC's RES20-M range are single phase filters, designed specifically for the medical industry. They offer a general purpose filtering performance with eight versions to select from and an operating frequency from dc to 400Hz.

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



Call us on:

Tel: +44 (0) 1724 273228

Features:

- 1 Amp to 30 Amp Options
- Single Phase
- General Purpose Filtering Performance
- UL Approved E191581

Benefits:

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

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

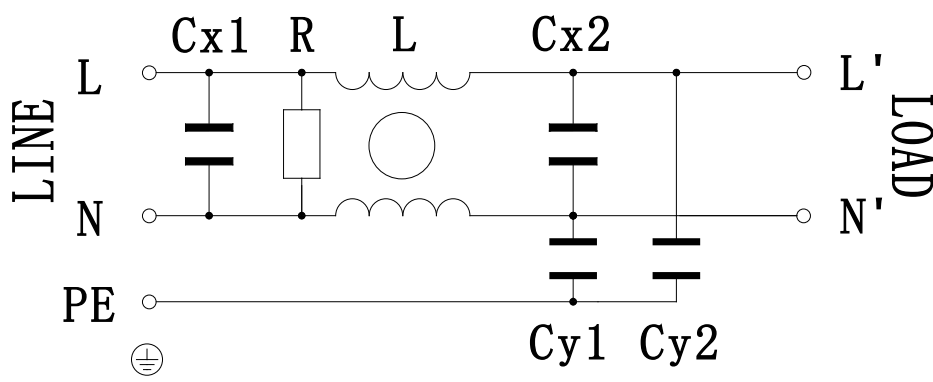
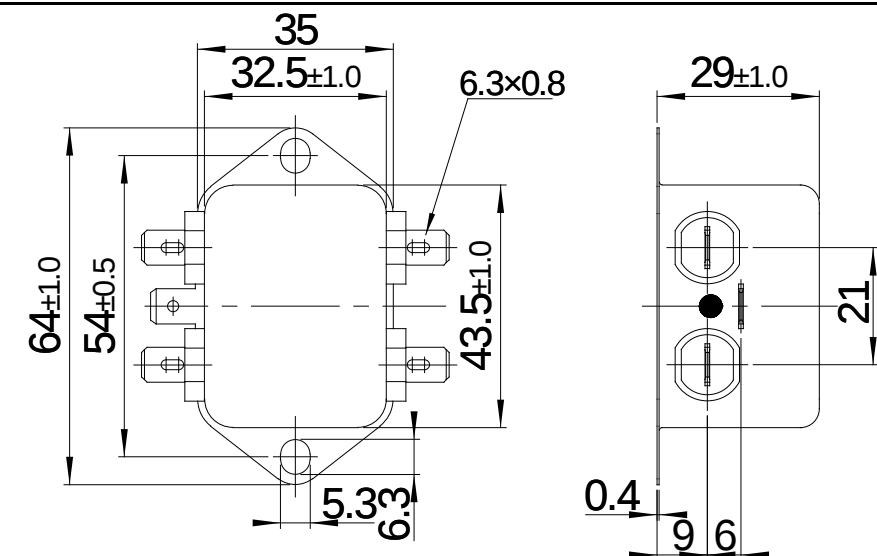
ROXBURGH EMC



Tel: +44 (0) 1724 273200

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:		3A@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 (RES20F03-M 0mA)					
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES20F03-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'):				2.5mH +50%,-35%			
Total Capacitance(L-N/L'-N'):				0.3uF +/-20%			
Total Capacitance(L/N-PE) (RES20F03-M):				9.4nF +/-20% (0nF)			
Total Resistance(L-N/L'-N'):				1MΩ +/-10%			
Weight(Approximate):				70g			
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 RES20F03				single-phase emc filter			
Number (Alternate RES20F03-M - no Y caps)				stage marker		V1.03	

ROXBURGH

EMC

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RES20-M General Purpose EMI 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		
								
RES20F01-M	1	0.002	12	0.15	1000	F	W	
RES20F03-M	3	0.002	2.5	0.15	1000	F	W	
RES20F06-M	6	0.002	1.0	0.15	1000	F	W	
RES20F10-M	10	0.002	0.8	0.15	1000	F	W	
RES20F12-M	12	0.002	0.7	0.15	1000	F	W	
RES20F16-M	16	0.002	0.65	0.15	1000	F	W	
RES20F20-M	20	0.002	0.6	0.15	1000	F		S
RES20S30-M	30	0.002	0.67	0.47	470			S

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