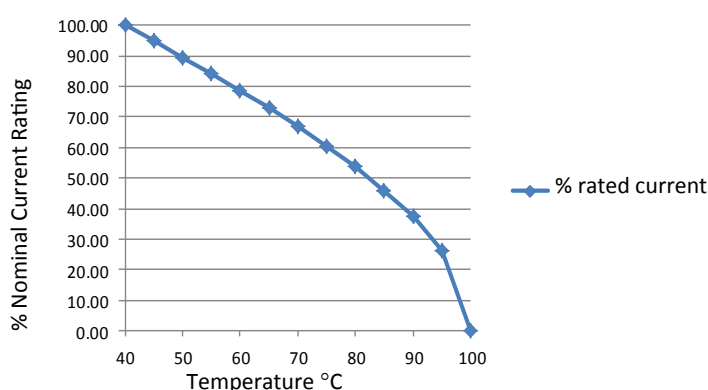


RES20-M General Purpose EMI Filters

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:

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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

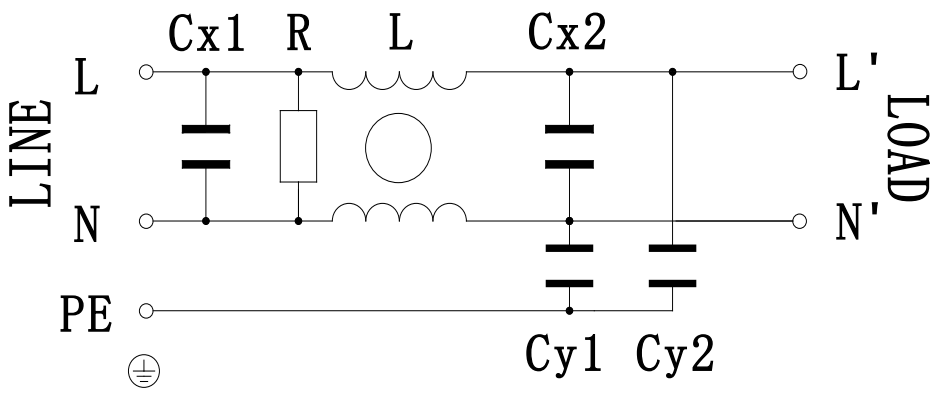
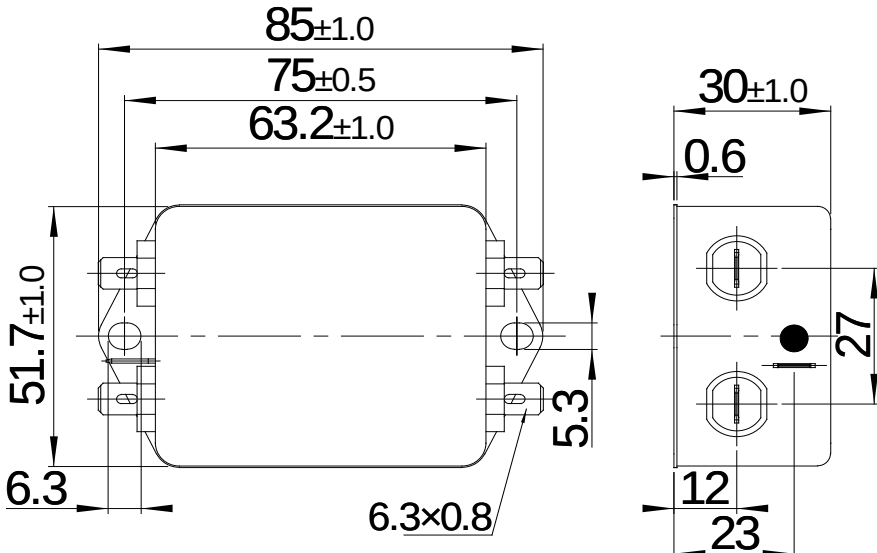
ROXBURGH *EMC*



Tel: +44 (0) 1724 273200

Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:		Dimensions(mm):								
										
Electrical parameters:		Filter parameters:								
Rated Voltage:		120/250VAC		Total Inductance(L-L'/N-N'):		0.6mH +50%,-35%				
Rated Current at an ambient temp:		20A@40°C		Total Capacitance(L-N/L'-N'):		0.3uF +/-20%				
Operating Frequency:		50/60Hz		Total Capacitance(L/N-PE) (RES20F20-M):		9.4nF +/-20% (0nF)				
Climatic Class(IEC60068-1):		25/100/21		Total Resistance(L-N/L'-N'):		1MΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)		0.8mA max (RES20F20-M 0mA)		Weight(Approximate):		210g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES20F20-M 0mA)		Safety certification			Technical Specification			
Test Voltage(100%)for 2 sec:				UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5
L-N:		1100VDC/20mA		ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5
L/N-PE:		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 RES20F20				single-phase emc filter		
				Number (Alternate RES20F20-M - no Y caps)				stage marker		V1.03

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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