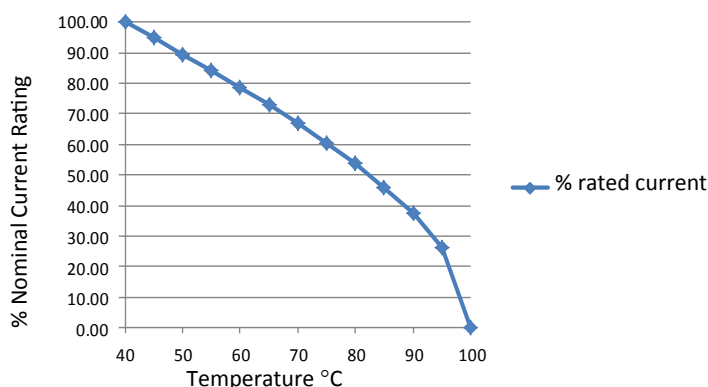


RES80-M Two-Stage High Performance Medical Applications

Roxburgh EMC's RES80-M range are two-stage filters, designed specifically for the medical industry. As a high performance filter it is well suited for particularly noisy applications. There are six variations to select from with rated current between 1amp and 16amp and operating frequency from DC to 400Hz.

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



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Features:

- Two-Phase Filter
- High Performance Filter
- 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

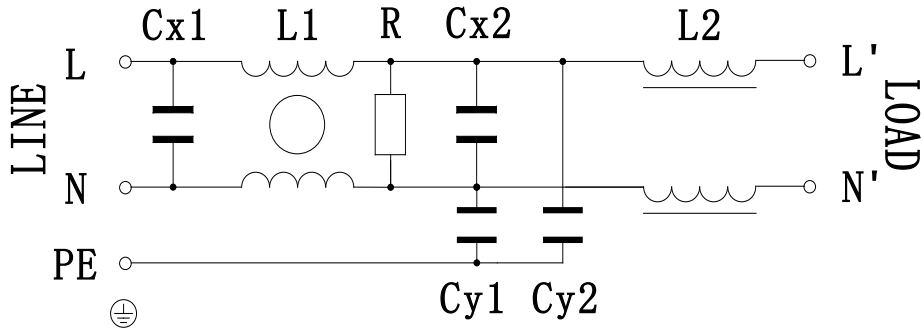
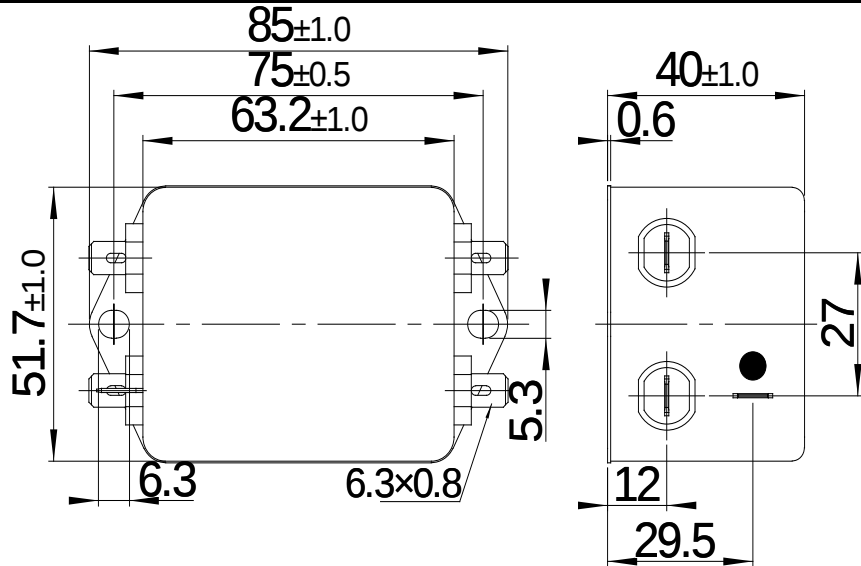
ROXBURGH *EMC*



Tel: +44 (0) 1724 273200

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'):		9.96mH +50%,-35%				
Rated Current at an ambient temp:		3A@40°C		Total Capacitance(L-N/L'-N'):		0.94uF +/-20%				
Operating Frequency:		50/60Hz		Total Capacitance(L/N-PE) (RES80F03-M):		9.4nF +/-20% (0nF)				
Climatic Class(IEC60068-1):		25/100/21		Total Resistance(L-N/L'-N'):		470KΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)		0.8mA max (RES80F03-M 0mA)		Weight(Approximate):		240g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES80F03-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 RES80F03						single-phase emc filter		
		Number (Alternate RES80F03-M - no Y caps)						stage marker	V1.03	

RES80-M Two-Stage High 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		
								
RES80F01-M	1	0.002	22	0.33	1000	F	W	
RES80F03-M	3	0.002	9.8	0.47	470	F	W	
RES80F06-M	6	0.002	7.8	1	220	F	W	
RES80F10-M	10	0.002	4.5	1	220	F	W	
RES80F12-M	12	0.002	3.25	1	220	F	W	
RES80F16-M	16	0.002	2.8	1	220	F	W	S

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