

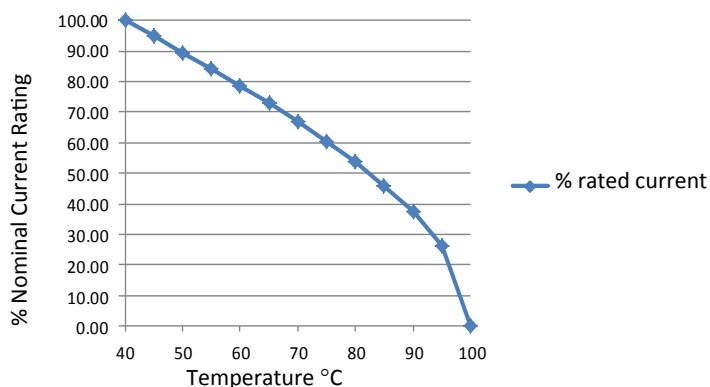
RES90-M Excellent Attenuation Performance

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*

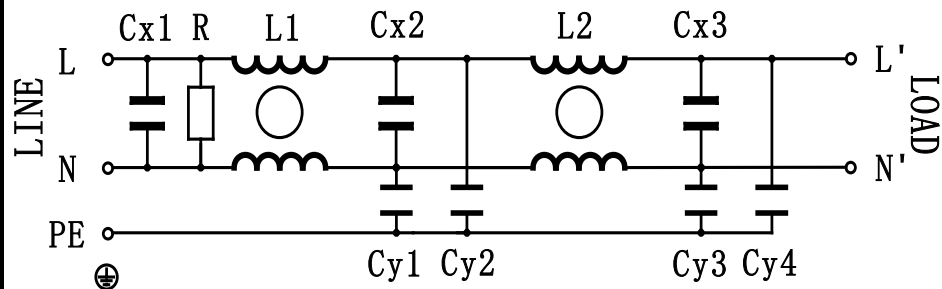


Tel: +44 (0) 1724 273200

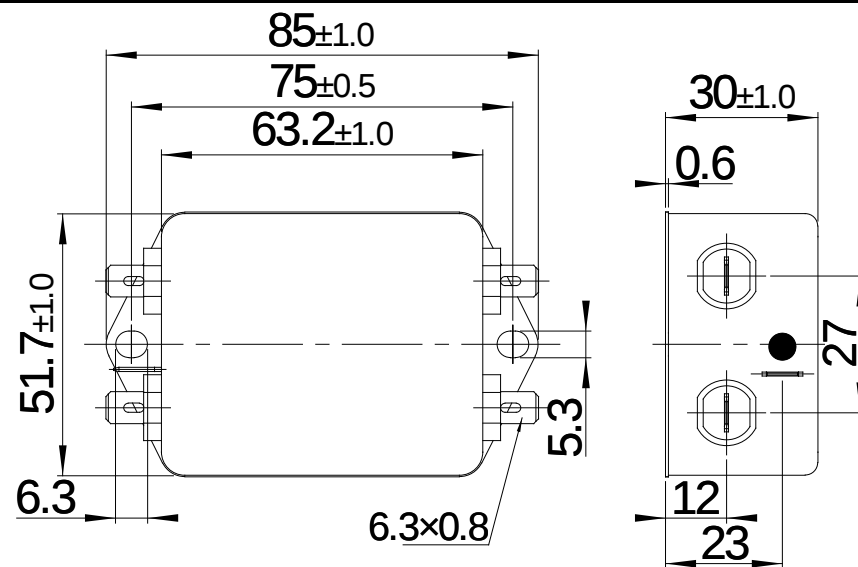
Email: sales@dem-uk.com

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%)	0.55mA max (RES90F03-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.32mA max (RES90F03-M 0mA)
Test Voltage(100%)for 2 sec: L-N: L/N-PE:	
	1100VDC/20mA
	2250VDC/20mA

Filter parameters:

Total Inductance(L-L'/N-N'):	28mH +50%,-35%
Total Capacitance(L-N/L'-N'):	0.99uF +/-20%
Total Capacitance(L/N-PE) (RES90F03-M):	6.4nF +/-20% (0nF)
Total Resistance(L-N/L'-N'):	470K Ω +/-10%
Weight(Approximate):	185g

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 **RES90F03**

Number (Alternate RES90F03-M - no Y caps)

single-phase emc filter

stage marker	V1.03
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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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