

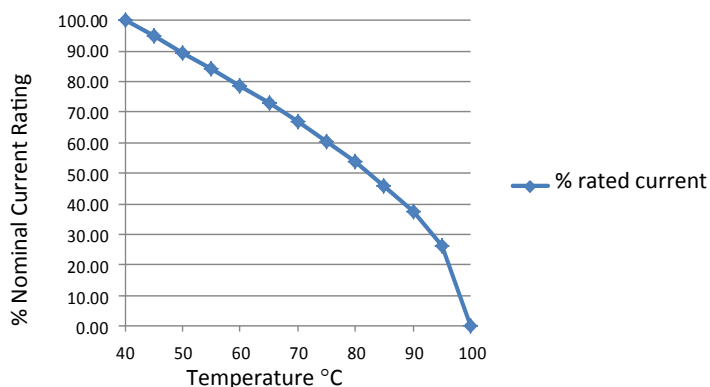
RES90-M Excellent Attenuation Performance

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:

Tel: +44 (0) 1724 273228

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

Performance curves on page 3

Other options in this range on page 4

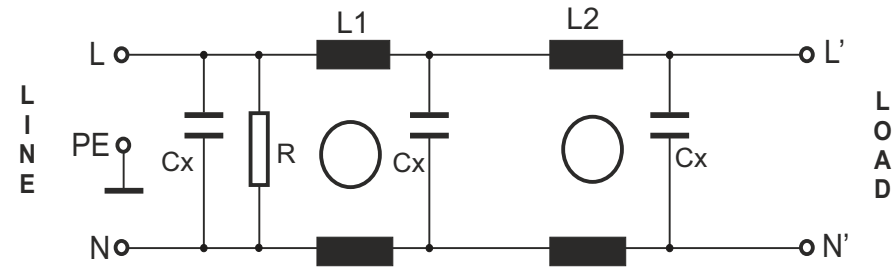
DEM Manufacturing
Deltron Emcon House
Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe, North Lincolnshire.
DN15 8RF



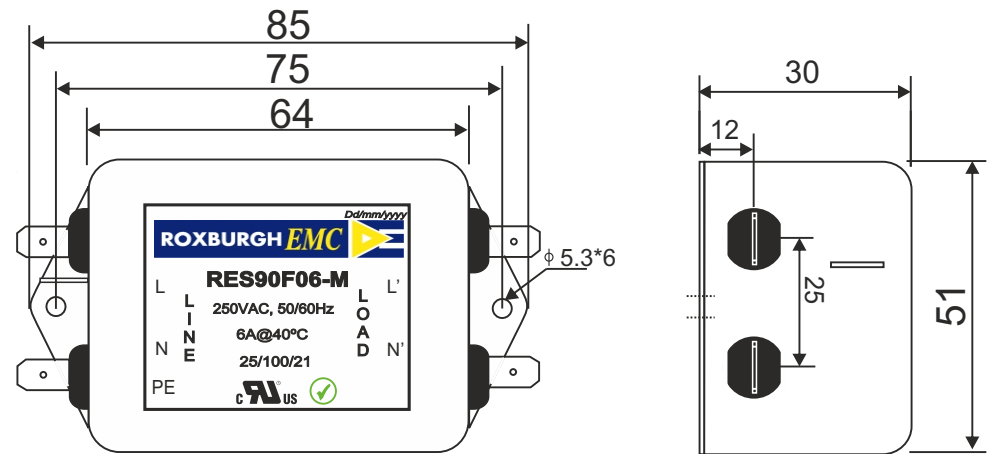
Tel: 44 (0) 1724 273200
Fax: 44 (0) 1724 280353
Email: sales@dem-uk.com
Web: www.dem-uk.com/roxburgh

RES90F06-M		Rev. 0
CHARACTERISTICS:		
Rated Voltage:	250VAC max	
Rated Current at Ambient:	6A @ 40°C	
Operating Frequency:	DC-60HZ	
Climatic Class (IEC60068-1):	25/100/21	
Temperature Range:	-25°C to +100°C	
Over load Current:	1.5 x Rated Ct. for 1 Min	
Operational Leakage current : (at 230VAC and Total C +/-20%)	0.002 mA max	
Worst case Leakage current : (N interrupted and Total C +/-20%)	<1.34 mA max	
DCR @ 25°C (+/-25%) :	100 mΩ	
Test Voltage (100%) for 2 sec:-	P-P:	1100VDC
	P-GND:	3500VDC
Ingress Protection:	IP 20	
Weight (approximate):	200 gr	
FILTER PARAMETERS:		
Total Inductance (P-P'+N-N') @10KHz:	16mH +50%,-30%	
Total Capacitance (P-P/P-N) @1KHz:	1.41μF +/- 20%	
Total Capacitance (P/N-GND) @1KHz:	NA	
Total Resistance (P-P/P-N):	330K Ω +/- 10%	
Total Resistance (P/N-GND):		
APPROVALS:	REACH RoHS UL 	
		APPROVED BY AJAY
		DATE:28-03-2014
 Tel:- +44(0) 1724 273200 email:- sales@dem-uk.com web :- www.dem-uk.com/roxburgh		

CIRCUIT DIAGRAM:



MECHANICAL DIMENSION (mm):



Note:

Housing matl. Fe with Ni Plated
Fast-On Terminal (6.38 x 0.8mm)
Connections

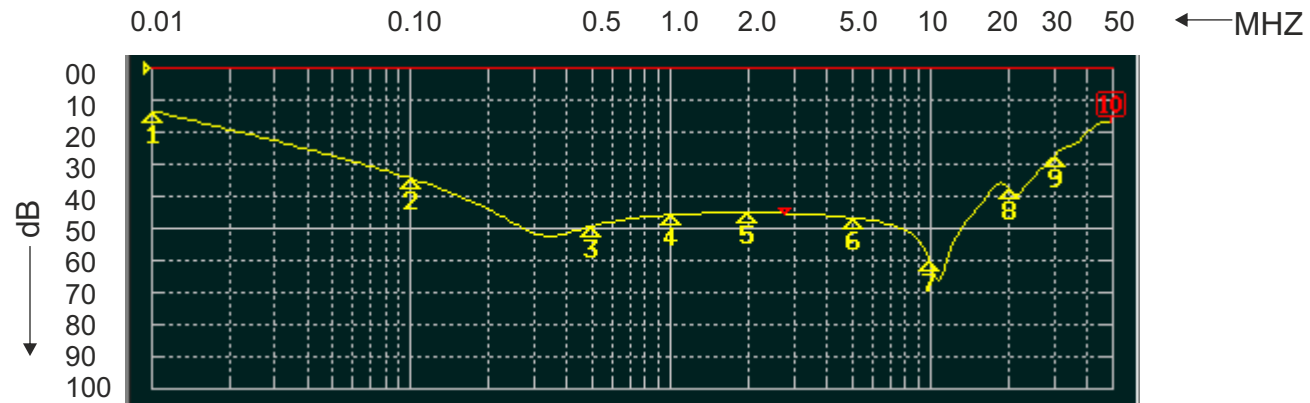
TOLERANCE: +/-1.0 mm



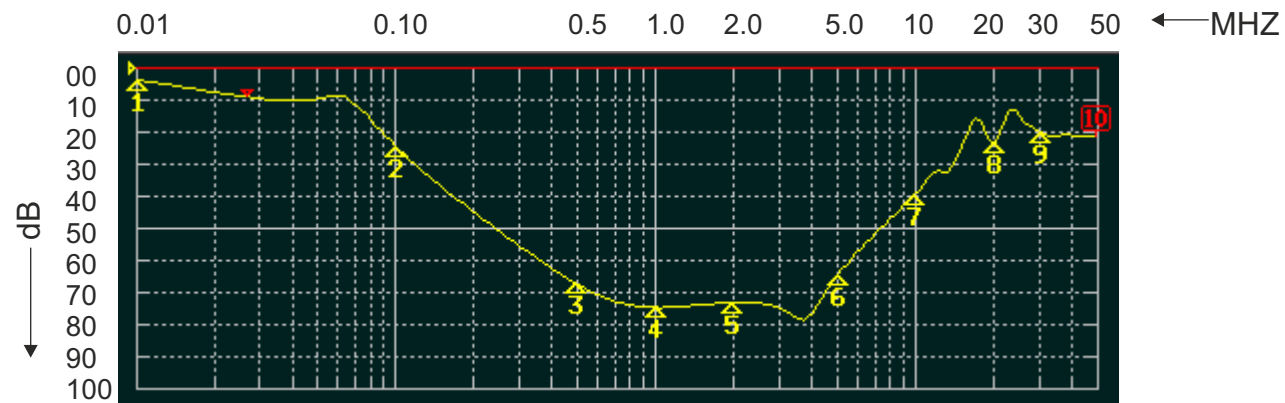
ROXBURGH EMC

FILTER INSERTION LOSS CHARACTERISTICS CISPR 17 - 50 OHM METHOD

RES90F06-M



COMMON MODE



DIFFERENTIAL MODE



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 ΣC_x 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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