

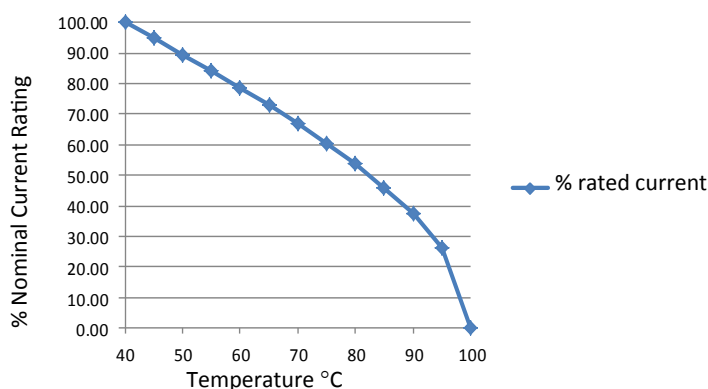
RES90-M Excellent Attenuation Performance

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
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Email: sales@dem-uk.com
Web: www.dem-uk.com/roxburgh

RES90F16-M

Rev. 0

CHARACTERISTICS:

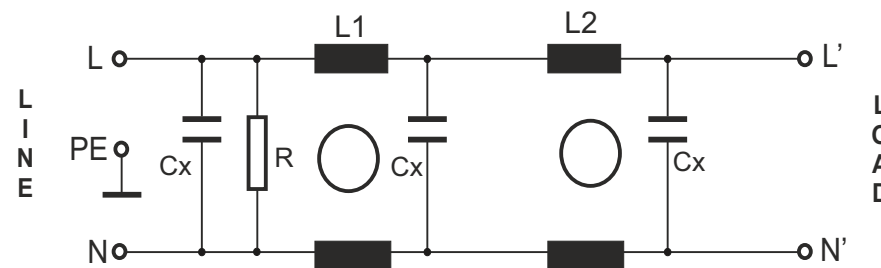
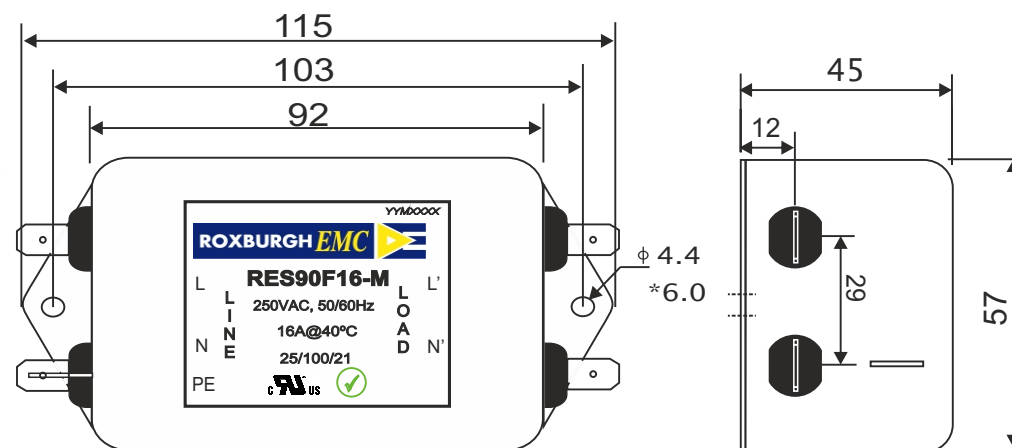
Rated Voltage:	250VAC max
Rated Current at Ambient:	16A @ 40°C
Operating Frequency:	DC-60HZ
Climatic Class (IEC60068-1):	25/100/21
Temperature Range:	-25°C to +100°C
Over load Current:	1.5 x Rated Ct. for 1 Min
Operational Leakage current : (at 230VAC and Total C +/-20%)	0.002 mA max
Worst case Leakage current : (N interrupted and Total C +/-20%)	<1.34 mA max
DCR @ 25°C (+/-25%) :	50 mΩ
Test Voltage (100%) for 2 sec:-	P-P: 1100VDC
	P-GND: 3000VDC
Ingress Protection:	IP 20
Weight (approximate):	450 gr

FILTER PARAMETERS:

Total Inductance (P-P'+N-N') @10KHz:	8mH +50%,-30%
Total Capacitance (P-P/P-N) @1KHz:	3μF +/- -20%
Total Capacitance (P/N-GND) @1KHz:	NA
Total Resistance (P-P/P-N):	220K Ω +/- -10%
Total Resistance (P/N-GND):	

APPROVALS:REACH
ROHS
ULAPPROVED
BY
AJAY

Date: 29-03-2014

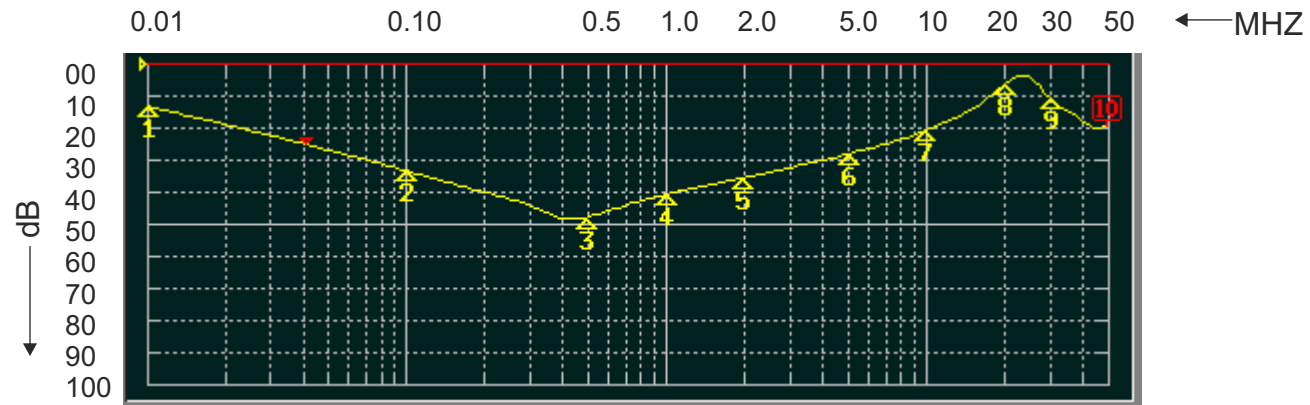
ROXBURGH EMCTel:- +44(0) 1724 273200
email:- sales@dem-uk.com
web :- www.dem-uk.com/roxburgh**CIRCUIT DIAGRAM:****MECHANICAL DIMENSION (mm):****Note:**Housing matl. Fe with Ni Plated
Fast-On Terminal (6.38 x 0.8mm)
Connections

TOLERANCE: +/-1.0 mm

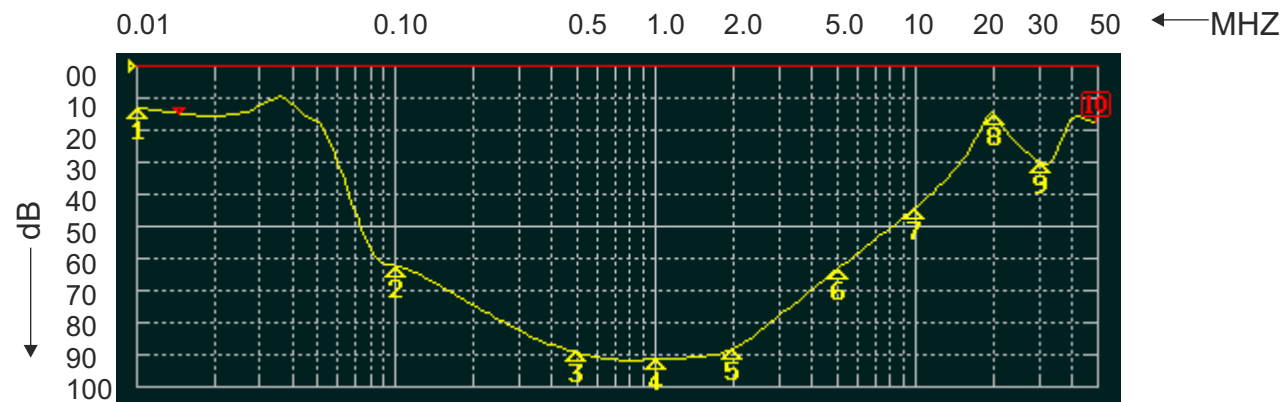


ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES90F16-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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