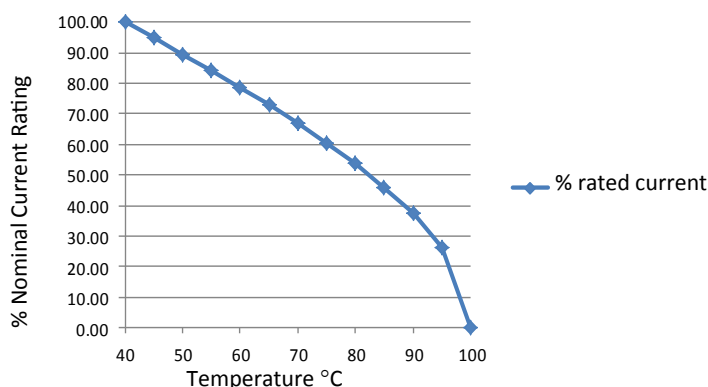


RES80-M Two-Stage High Performance Medical Applications

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

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

ROXBURGH EMC

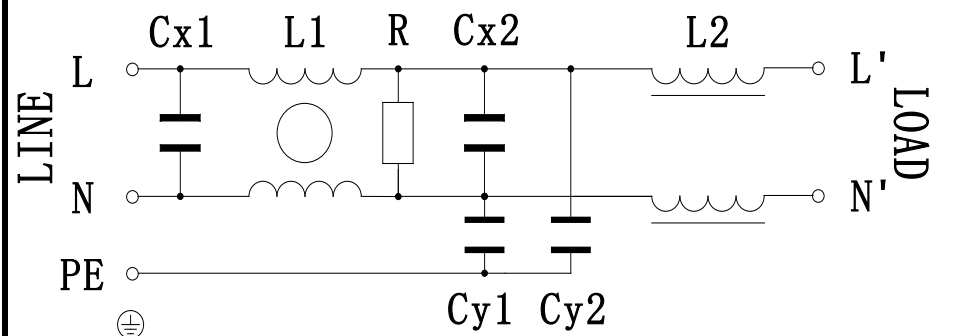


Tel: +44 (0) 1724 273200

Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

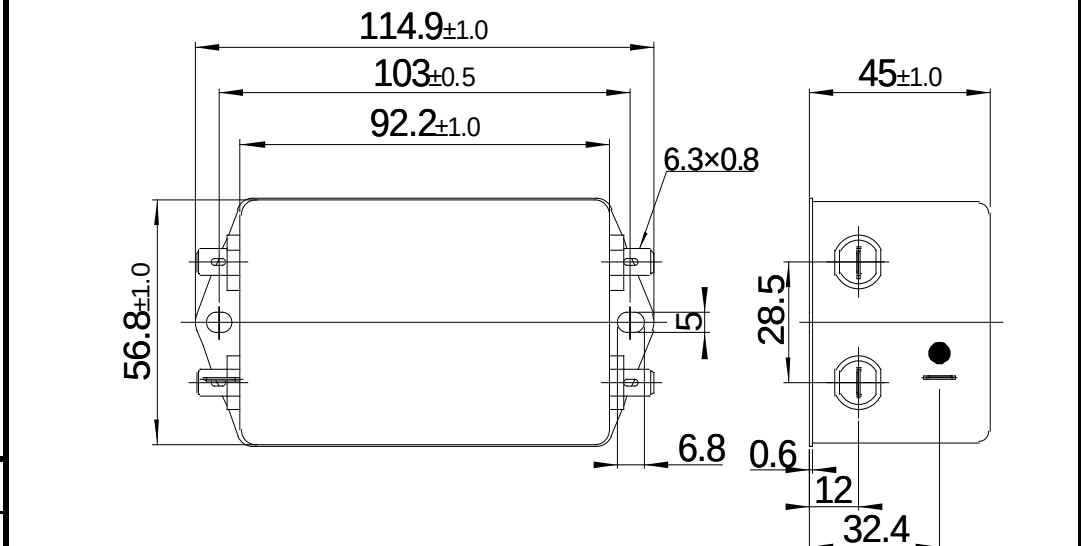
Circuit diagram:



Electrical parameters:

Rated Voltage:	120/250VAC
Rated Current at an ambient temp:	6A@40°C
Operating Frequency:	50/60Hz
Climatic Class(IEC60068-1):	25/100/21
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.8mA max (RES80F06-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES80F06-M 0mA)
Test Voltage(100%)for 2 sec: L-N: L/N-PE:	
	1100VDC/20mA
	2250VDC/20mA

Dimensions(mm):



Filter parameters:

Total Inductance(L-L'/N-N'):	7.91mH +50%,-35%
Total Capacitance(L-N/L'-N'):	2uF +/-20%
Total Capacitance(L/N-PE) (RES80F06-M):	9.4nF +/-20% (0nF)
Total Resistance(L-N/L'-N'):	220K Ω +/-10%
Weight(Approximate):	460g

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 **RES80F06**

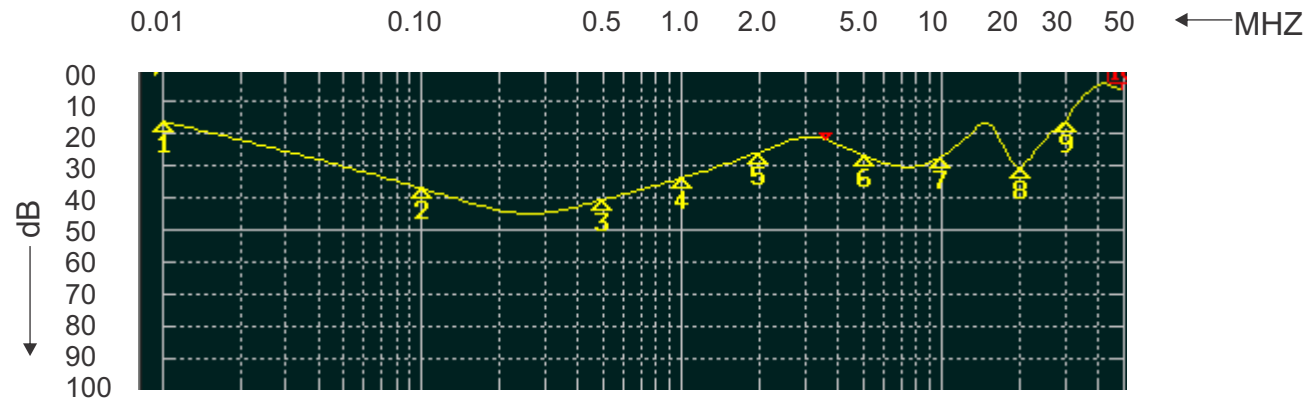
Number (Alternate RES80F06-M - no Y caps)

single-phase emc filter

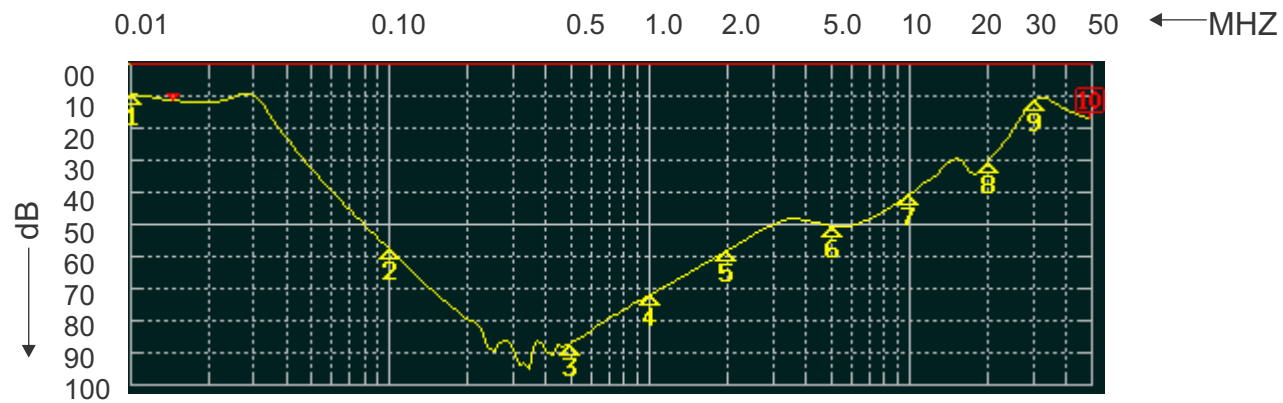
stage marker	V1.03
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ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES80F06-M



COMMON MODE



DIFFERENTIAL MODE



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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