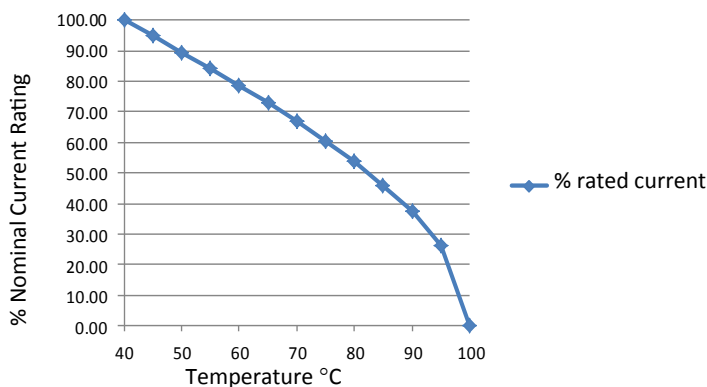


RES30-M High Performance EMI Filter

Medical Applications

Roxburgh EMC's RES30-M range are single phase filters, designed specifically for the medical industry. They offer a high attenuation performance and are well suited for particularly noisy applications. There are ten variations to select from with an operating frequency from dc to 400Hz.

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



Call us on:

+44 (0) 1724 273228

Features:

- Single Phase
- High Attenuation Performance
- 1 Amp to 30 Amp Options
- UL Approved E191581

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:		Dimensions(mm):					
Electrical parameters:							
Rated Voltage:		120/250VAC					
Rated Current at an ambient temp:		16A@40°C					
Operating Frequency:		50/60Hz					
Climatic Class(IEC60068-1):		25/100/21					
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)		0.95mA max (RES30F16-M 0mA)					
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.55mA max (RES30F16-M 0mA)					
Test Voltage(100%)for 2 sec:							
L-N:		1100VDC/20mA					
L/N-PE:		2250VDC/20mA					
Filter parameters:							
Total Inductance(L-L'/N-N'):				4mH +50%,-35%			
Total Capacitance(L-N/L'-N'):				2uF +/-20%			
Total Capacitance(L/N-PE) (RES30F16-M):				20nF +/-20% (0nF)			
Total Resistance(L-N/L'-N'):				330KΩ +/-10%			
Weight(Approximate):				250g			
Safety certification				Technical Specification			
UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5	
ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5	
CE	☒	VDE	☐	approved by	Henry Huang	2020-8-5	
Part RES30F16				single-phase emc filter			
Number (Alternate RES30F16-M - no Y caps)				stage marker		V1.03	

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EMC

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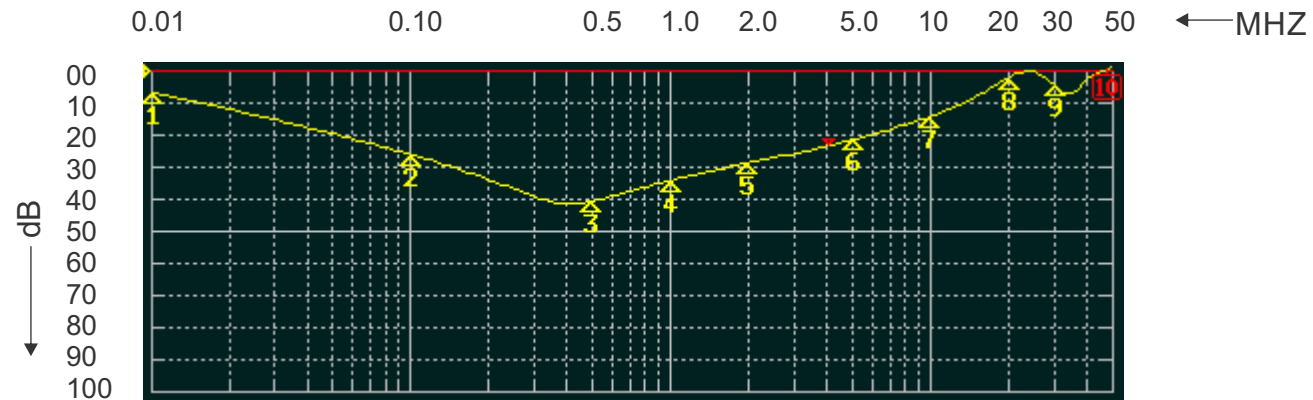
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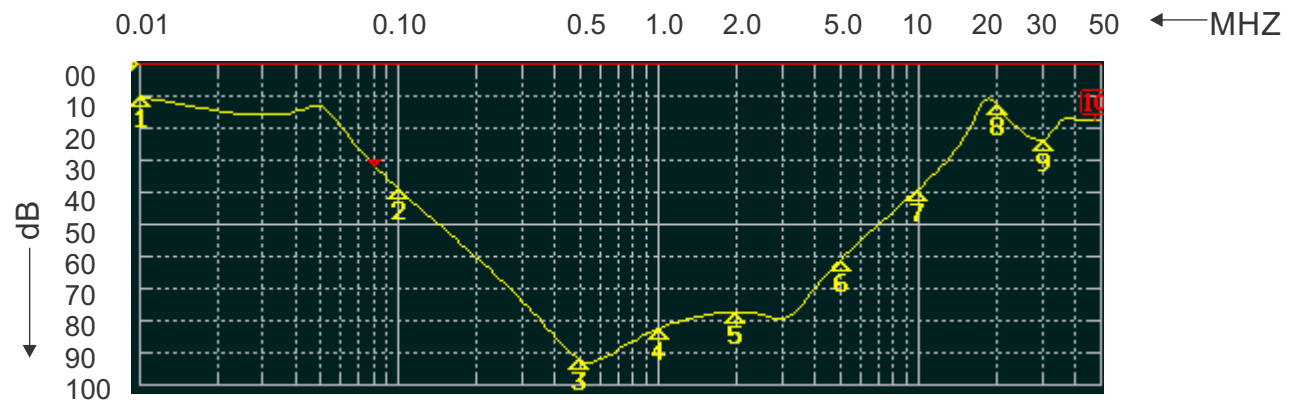
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FILTER INSERTION LOSS CHARACTERISTICS CISPR 17 - 50 OHM METHOD

RES30F16-M



COMMON MODE



DIFFERENTIAL MODE



RES30-M High Performance EMI Filter

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		
								
RES30F01-M	1	0.002	20	0.44	1000	F	W	
RES30F03-M	3	0.002	14	0.66	1000	F	W	
RES30F04-M	4	0.002	14	0.66	1000	F	W	
RES30F06-M	6	0.002	8	0.94	680	F	W	
RES30F08-M	8	0.002	8	0.94	680	F	W	
RES30F10-M	10	0.002	8	0.94	680	F	W	
RES30F12-M	12	0.002	4	2.00	330	F	W	
RES30F16-M	16	0.002	4	2.00	330	F	W	
RES30F20-M	20	0.002	4	2.00	330	F		S
RES30S30-M	30	0.002	2	2.00	330			S

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