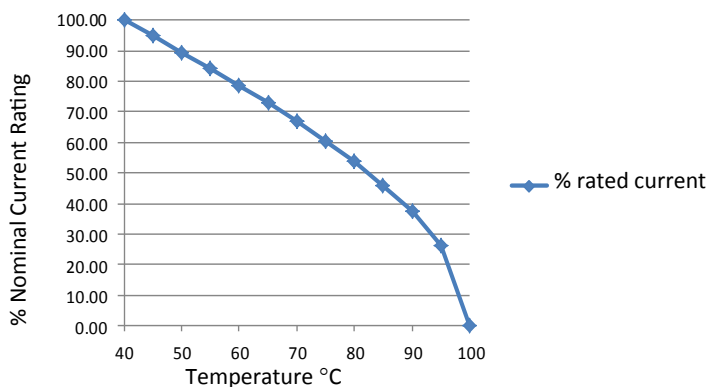


RES30-M High Performance EMI Filter

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:

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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

Other options in this range on page 3

DEM Manufacturing

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Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe, North Lincolnshire.
DN15 8RF

ROXBURGH *EMC*



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Web: www.dem-uk.com/roxburgh

Circuit diagram:		Dimensions(mm):						
Electrical parameters:		Filter parameters:						
Rated Voltage:	120/250VAC	Total Inductance(L-L'/N-N'):		8mH +50%,-35%				
Rated Current at an ambient temp:	10A@40°C	Total Capacitance(L-N/L'-N'):		0.94uF +/-20%				
Operating Frequency:	50/60Hz	Total Capacitance(L/N-PE) (RES30F10-M):		9.4nF +/-20%(0nF)				
Climatic Class(IEC60068-1):	25/100/21	Total Resistance(L-N/L'-N'):		680KΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.8mA max (RES30F10-M 0mA)	Weight(Approximate):		210g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES30F10-M 0mA)	Safety certification			Technical Specification			
Test Voltage(100%)for 2 sec: L-N: L/N-PE:		UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5
	1100VDC/20mA	ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5
	2250VDC/20mA	CE	☒	VDE	☐	approved by	Henry Huang	2020-8-5
		Part RES30F10				single-phase emc filter		
		Number (Alternate RES30F10-M - no Y caps)				stage marker	V1.03	

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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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