

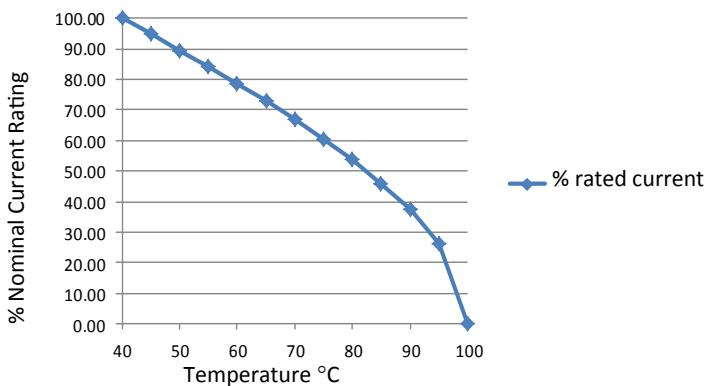
RES20-M General Purpose EMI Filters

Medical Applications

Roxburgh EMC's RES20-M range are single phase filters, designed specifically for the medical industry. They offer a general purpose filtering performance with eight versions to select from and 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:
Tel: +44 (0) 1724 273228

Features:

- 1 Amp to 30 Amp Options
- Single Phase
- General Purpose Filtering Performance
- UL Approved E191581

Benefits:

- Compact size for rated current
- Fast-on, screw or wire terminations
- Quick and Easy Mounting
- Available from UK Stock

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

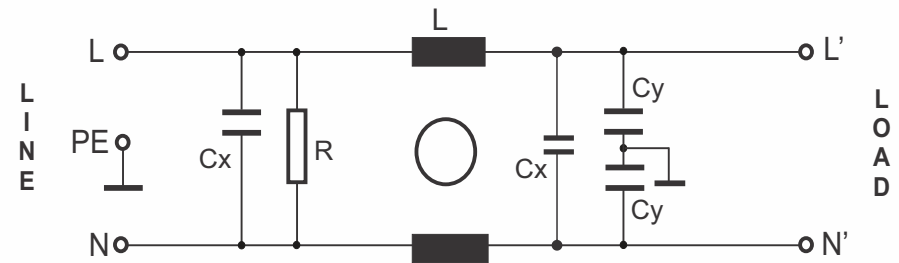
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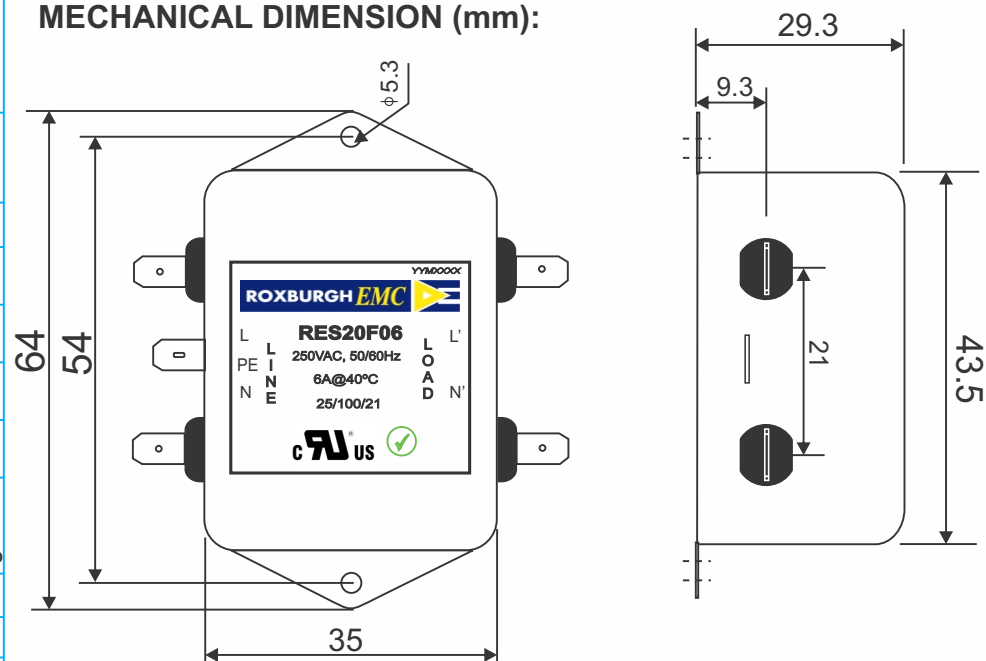
RES20F06	Rev. 0
CHARACTERISTICS:	
Rated Voltage:	250VAC max
Rated Current at Ambient:	6A @ 40°C
Operating Frequency:	DC-400HZ
Climatic Class (IEC60068-1):	25/100/21
Temperature Range:	-25°C to +100°C
Over load Current:	1.5 x Rated Ct. for 1 Min
Operational Leakage current : (at 230VAC/50Hz and Total C +/-20%)	0.002 mA max
Worst case Leakage current : (N interrupted and Total C +/-20%)	<1.11 mA max
DCR @ 25°C (+/-25%) :	100 mΩ
Test Voltage (100%) for 2 sec:-	
L-N:	1100VDC
L-GND:	3000VDC
Ingress Protection:	IP 20
Weight (Approximate):	75 gr
FILTER PARAMETERS:	
Total Inductance (L-L'+N-N') @10KHz:	1.0mH +50%,-30%
Total Capacitance (L-L/L-N) @1KHz:	0.3μF +/- -20%
Total Capacitance (L/N-GND) @1KHz:	9.4nF +/- -20%
Total Resistance (L-L/L-N):	1M Ω +/- -10%
Total Resistance (L/N-GND):	
APPROVALS:	
REACH RoHS UL	APPROVED BY AJAY
	Date: 21-03-2014

CIRCUIT DIAGRAM:



Y-capacitors not included in -M versions designed for medical applications.

MECHANICAL DIMENSION (mm):



Note:

Housing matl. Fe with Ni Plated
Fast-On Terminal (6.3 x 0.8mm)
and wire (20 AWG) Connections




TOLERANCE: +/-1.0 mm



RES20-M General Purpose 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		
								
RES20F01-M	1	0.002	12	0.15	1000	F	W	
RES20F03-M	3	0.002	2.5	0.15	1000	F	W	
RES20F06-M	6	0.002	1.0	0.15	1000	F	W	
RES20F10-M	10	0.002	0.8	0.15	1000	F	W	
RES20F12-M	12	0.002	0.7	0.15	1000	F	W	
RES20F16-M	16	0.002	0.65	0.15	1000	F	W	
RES20F20-M	20	0.002	0.6	0.15	1000	F		S
RES20S30-M	30	0.002	0.67	0.47	470			S

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