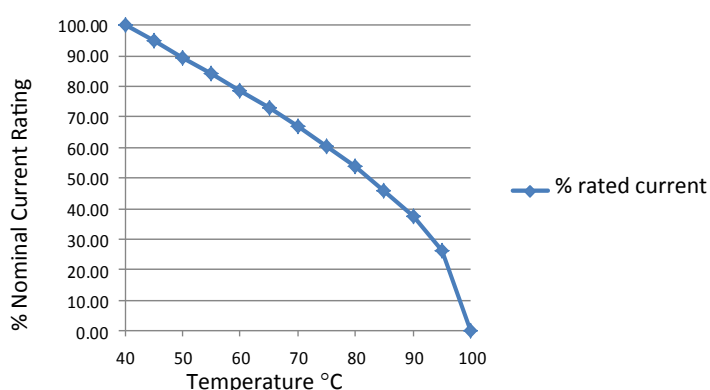


RES20-M General Purpose EMI Filters

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



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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

DEM Manufacturing

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

ROXBURGH *EMC*

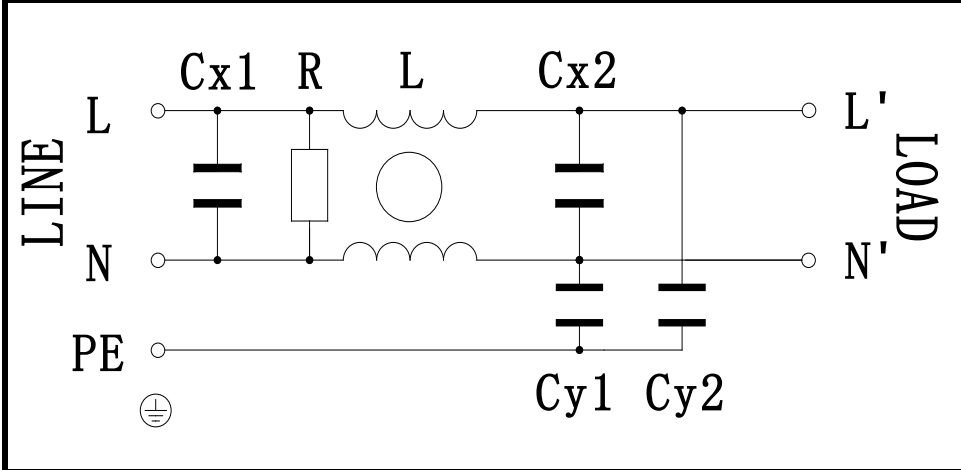


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Web: www.dem-uk.com/roxburgh

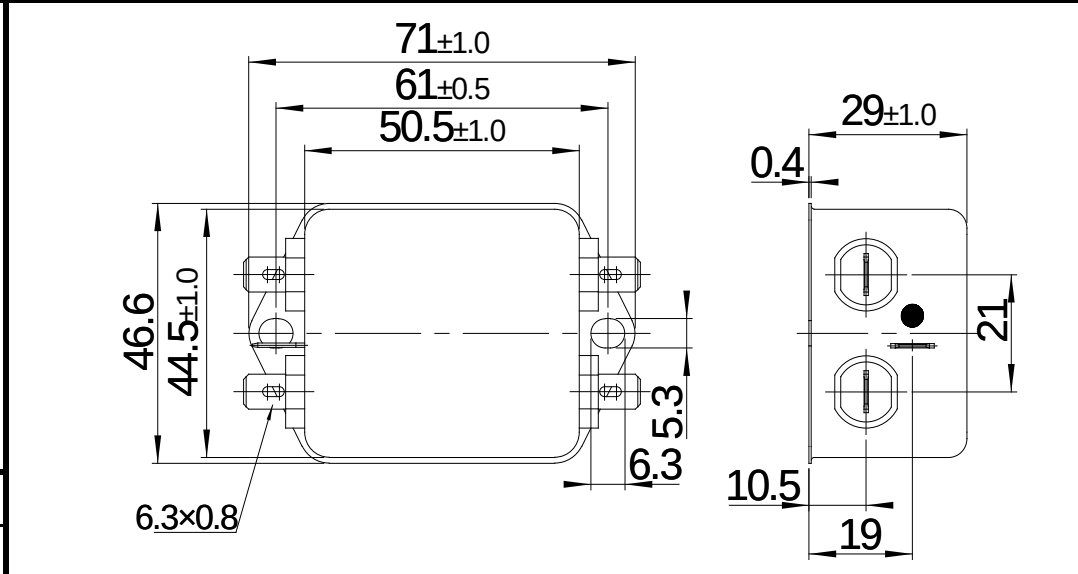
Circuit diagram:



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%)	0.8mA max (RES20F16-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES20F16-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'):	0.65mH +50%,-35%
Total Capacitance(L-N/L'-N'):	0.3uF +/-20%
Total Capacitance(L/N-PE) (RES20F16-M):	9.4nF +/-20%(0nF)
Total Resistance(L-N/L'-N'):	1MΩ +/-10%
Weight(Approximate):	120g

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 **RES20F16**

Number (Alternate RES20F16-M - no Y caps)

single-phase emc filter

stage marker	V1.03
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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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