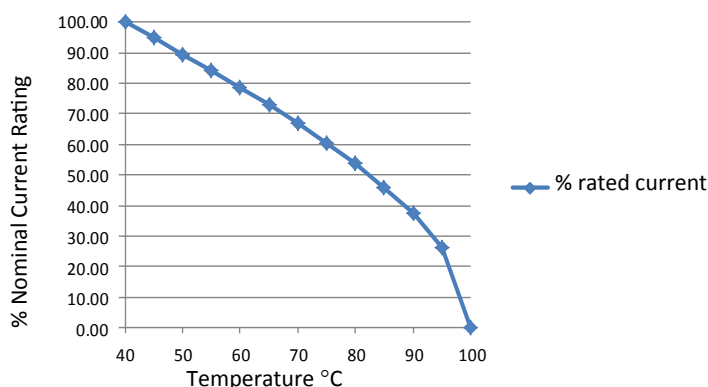


RES80-M Two-Stage High Performance Medical Applications

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



Call us on:

+44 (0) 1724 273228

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

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*

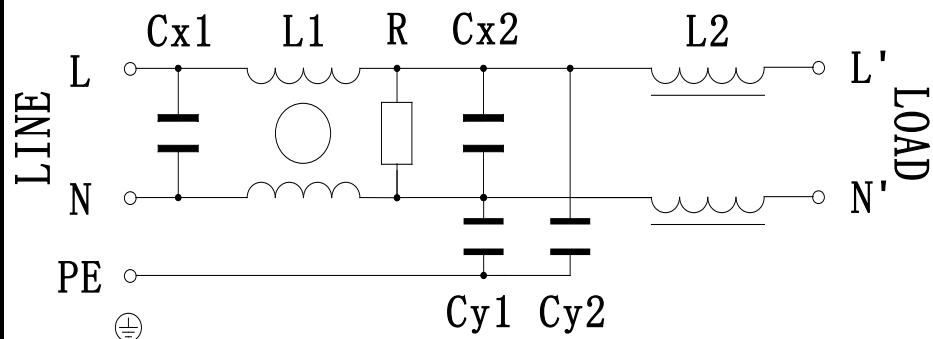


Tel: +44 (0) 1724 273200

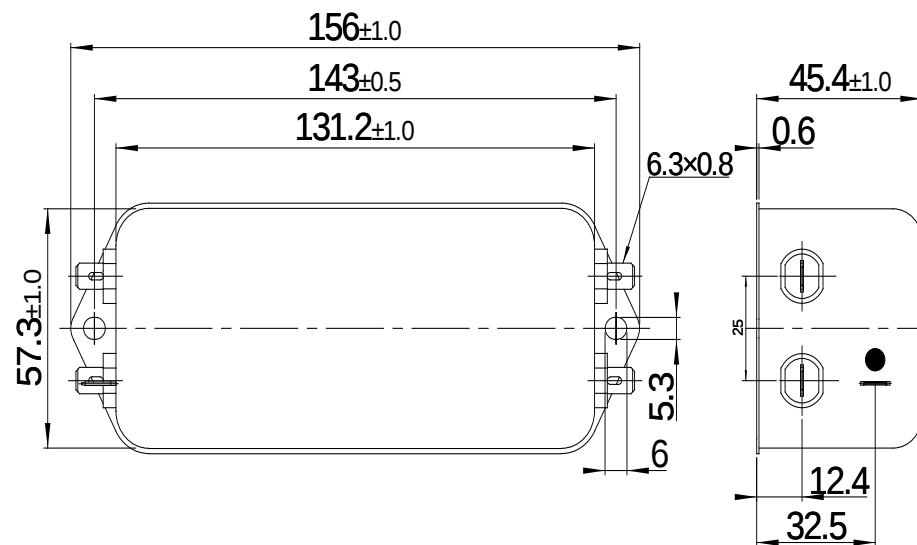
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:



Dimensions(mm):



Electrical parameters:

Rated Voltage:	120/250VAC
Rated Current at an ambient temp:	10A@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 (RES80F10-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES80F10-M 0mA)
Test Voltage(100%)for 2 sec: L-N: L/N-PE:	
	1100VDC/20mA
	2250VDC/20mA

Filter parameters:

Total Inductance(L-L'/N-N'):	4.56mH +50%,-35%
Total Capacitance(L-N/L'-N'):	2uF +/-20%
Total Capacitance(L/N-PE) (RES80F10-M):	9.4nF +/-20% (0nF)
Total Resistance(L-N/L'-N'):	220K Ω +/-10%
Weight(Approximate):	650g

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



+44 (0)1724 273200
sales@dem-uk.com
www.dem-uk.com/roxburgh

Part **RES80F10**

Number (Alternate RES80F10-M - no Y caps)

single-phase emc filter

stage marker	V1.03
--------------	-------

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

Call us on:

+44 (0) 1724 273200



DEM Manufacturing

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

Tel: +44 (0) 1724 273200

Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh