

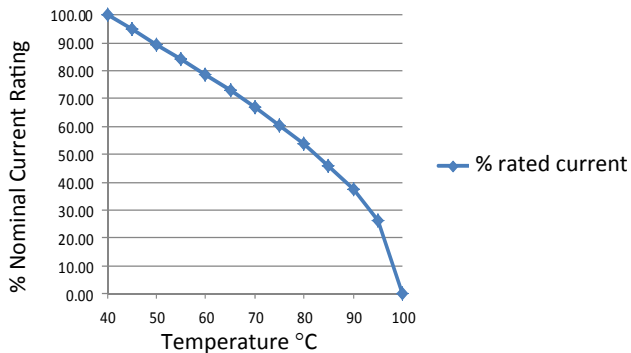
RES70 Chassis Mounted Filter

Multi-Stage, High Differential, High Common Mode and High Frequency

Roxburgh's RES70 series is a multi-stage EMC filter offering high differential mode, high common mode and high frequency attenuation.

Designed for quick and easy chassis mounting, these general purpose filters are suitable for a broad range of applications including noisy environments where increased filter performance is required.

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



Call us on:
+44 (0) 1724 273200

Features:

- Multi-stage
- High differential and high common mode attenuation
- High frequency attenuation
- UL approved E191581
- For use from DC to 400Hz
- 1 Amp to 36 Amp

Benefits:

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

Application Examples:

- Lighting
- Drives
- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Building automation
- Machinery
- Electronic data/communication processing equipment
- Office automation

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

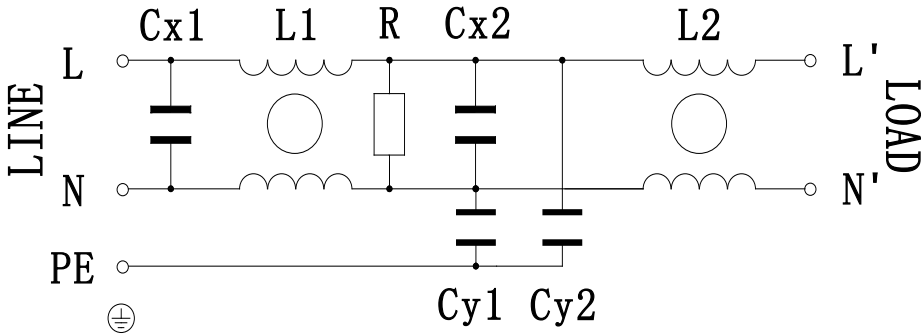
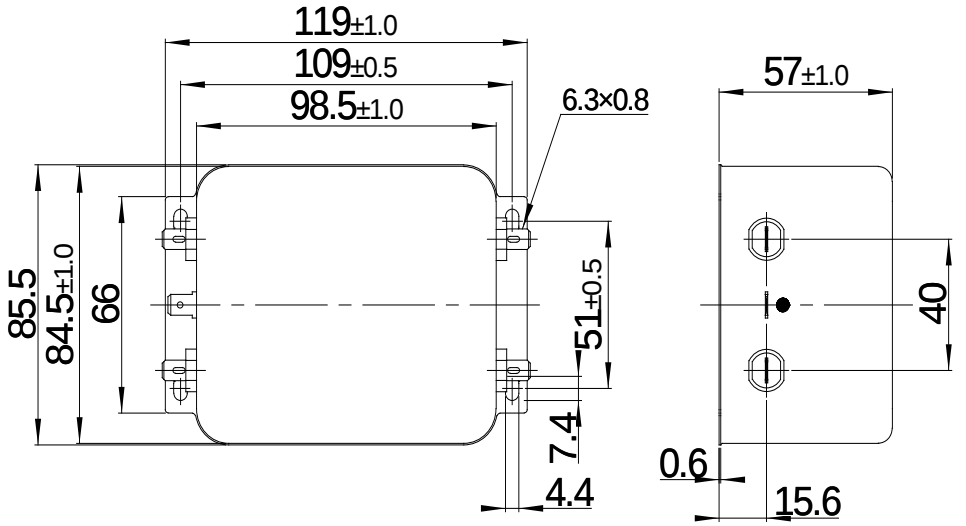
ROXBURGH EMC



Tel: +44 (0) 1724 273200

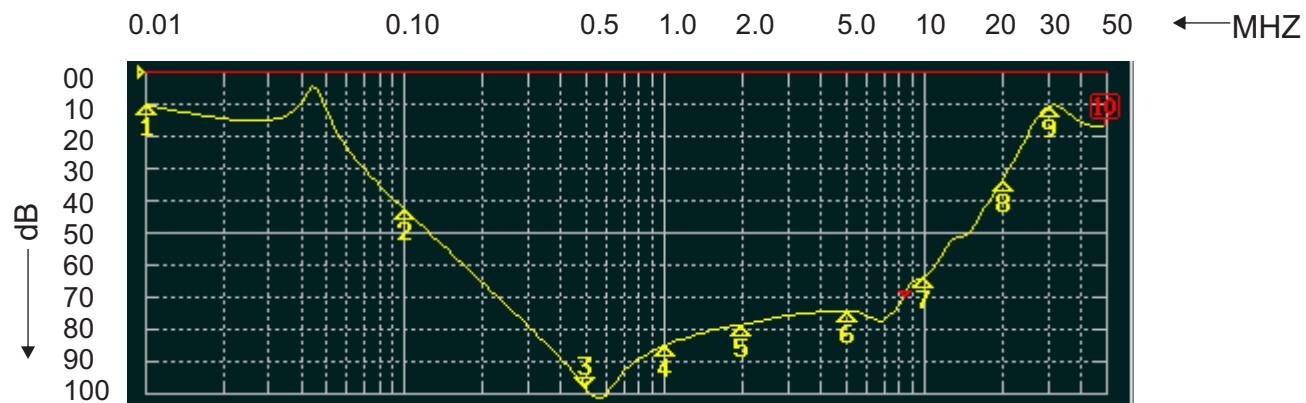
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

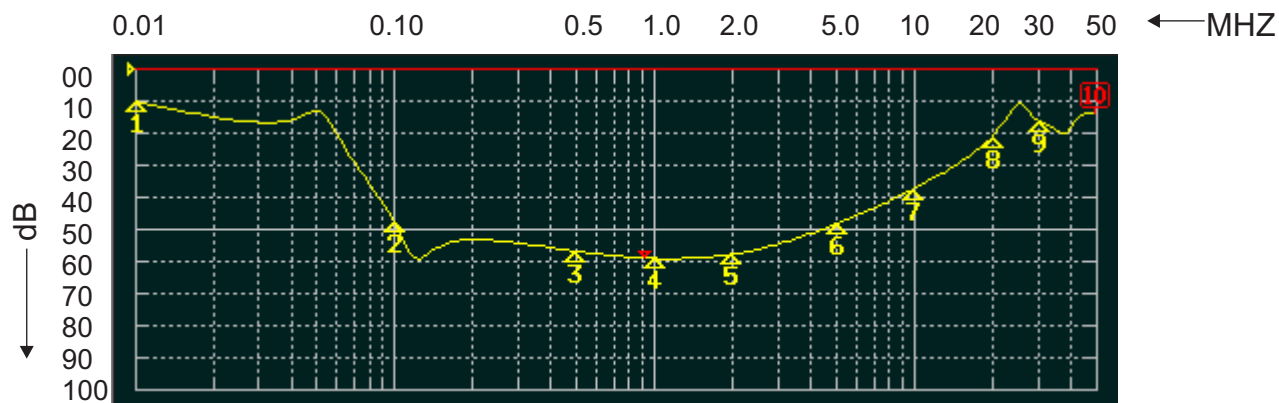
Circuit diagram:		Dimensions(mm):						
								
Electrical parameters:		Filter parameters:						
Rated Voltage:	120/250VAC	Total Inductance(L-L'/N-N'):		5.6mH +50%,-35%				
Rated Current at an ambient temp:	16A@40°C	Total Capacitance(L-N/L'-N'):		2uF +/-20%				
Operating Frequency:	50/60Hz	Total Capacitance(L/N-PE) (RES70F16-M):		9.4nF +/-20% (0nF)				
Climatic Class(IEC60068-1):	25/100/21	Total Resistance(L-N/L'-N'):		220KΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.8mA max (RES70F16-M 0mA)	Weight(Approximate):		900g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES70F16-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
 +44 (0)1724 273200 sales@dem-uk.com www.dem-uk.com/roxburgh		Part RES70F16				single-phase emc filter		
		Number (Alternate RES70F16-M - no Y caps)				stage marker	V1.03	

ROXBURGH EMC
FILTER INSERTION LOSS CHARACTERISTICS
CISPR 17 - 50 OHM METHOD

RES70F16



COMMON MODE



DIFFERENTIAL MODE



RES70 Chassis Mounted Filter

Multi-Stage, High Differential, High Common Mode and High Frequency

Options Available:

Part Number	Rated Current @40°C A	Leakage Current @ 230V/50Hz mA	Inductance ΣL mH	Capacitance ΣCx uF	Capacitance ΣCy nF	Resistance ΣR K Ω	Connection Type		
									
RES70F01	1	0.73	44	0.66	9.4	1000	F	W	
RES70F03	3	0.73	19.6	0.94	9.4	470	F	W	
RES70F06	6	0.73	15.6	2	9.4	220	F	W	
RES70F10	10	0.73	9	2	9.4	220	F	W	
RES70F12	12	0.73	6.5	2	9.4	220	F	W	
RES70F16	16	0.73	3.6	2	9.4	220	F	W	S
RES70S25	25	0.73	4	4.4	9.4	220			S
RES70S36	36	0.86	2.46	4.4	9.4	220			S

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