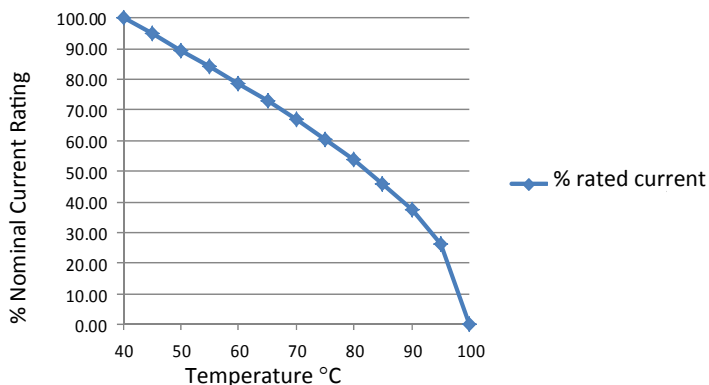


RES10 Chassis Mounted General Purpose Filters

Roxburgh's RES10 series of single phase filters are designed for fast and easy chassis mounting. Featuring excellent attenuation of conducted radio frequency interference (RFI), the RES10 series is designed for use in general purpose filtering.



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



Call us on:

Tel: +44 (0) 1724 273200

Features:

- 1 Amp to 60 Amp
- Single phase general purpose
- 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

Application Examples:

- Lighting
- 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

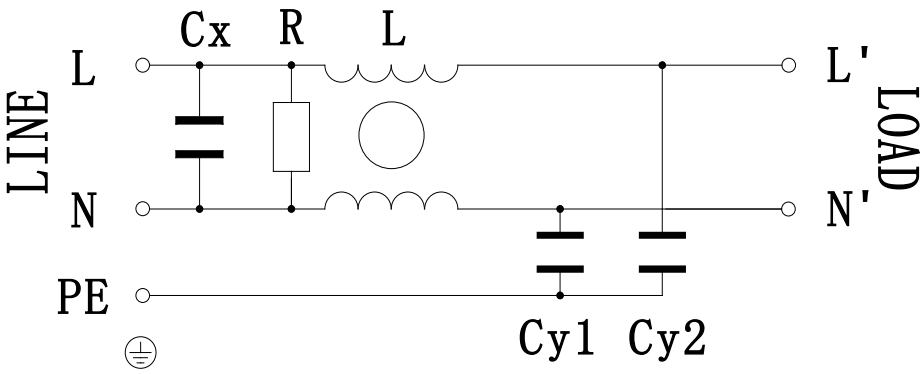
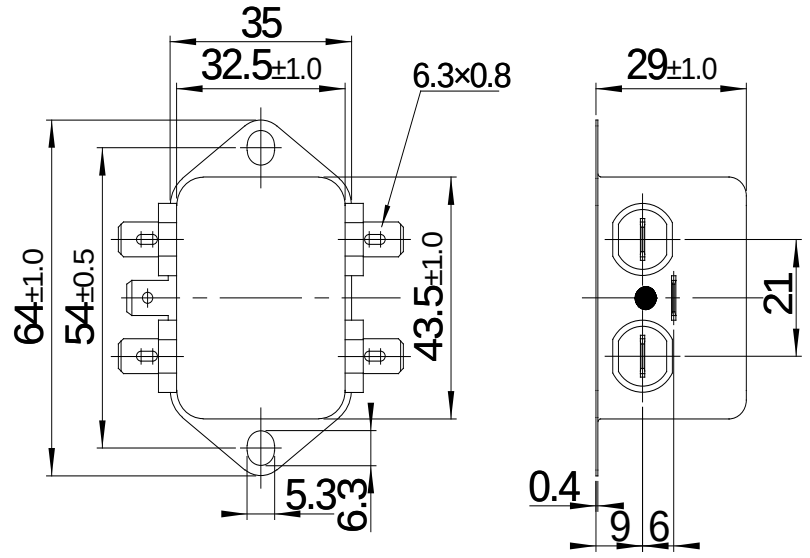
ROXBURGH EMC



Tel: +44 (0) 1724 273200

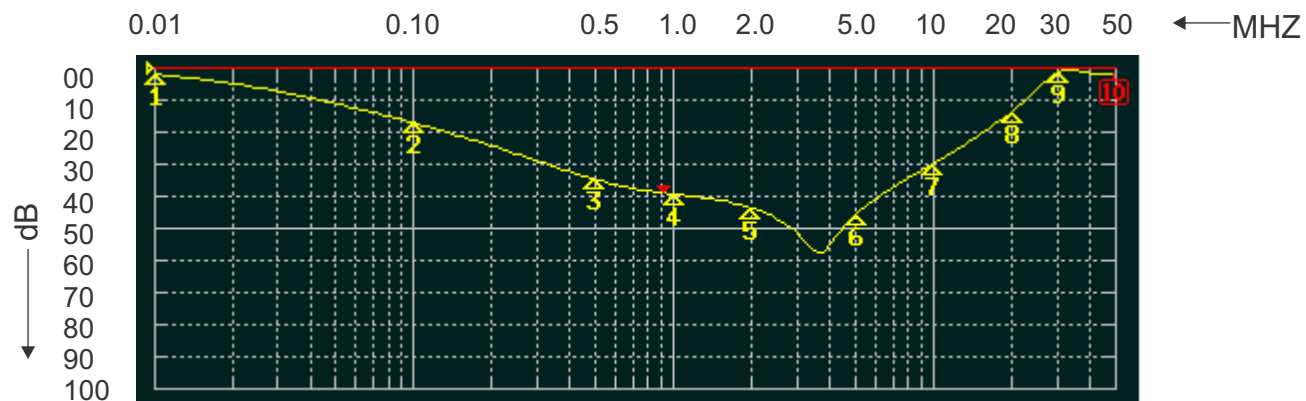
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

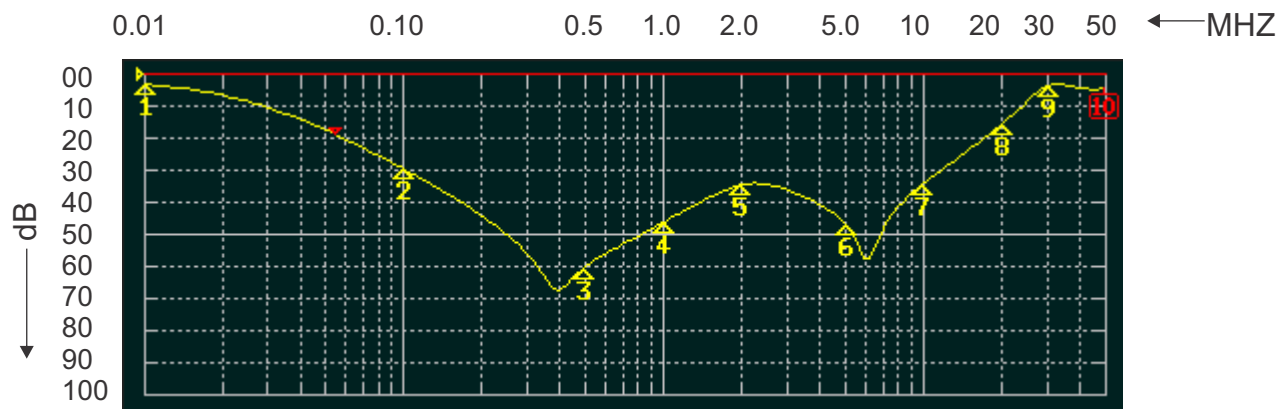
Circuit diagram:		Dimensions(mm):						
								
Electrical parameters:		Filter parameters:						
Rated Voltage:	120/250VAC	Total Inductance(L-L'/N-N'):		0.7mH +50%,-35%				
Rated Current at an ambient temp:	12A@40°C	Total Capacitance(L-N/L'-N'):		0.1uF +/-20%				
Operating Frequency:	50/60Hz	Total Capacitance(L/N-PE) (RES10F12-M):		9.4nF +/-20% (0nF)				
Climatic Class(IEC60068-1):	25/100/21	Total Resistance(L-N/L'-N'):		1MΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.8mA max (RES10F12-M 0mA)	Weight(Approximate):		75g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.46mA max (RES10F12-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 RES10F12				single-phase emc filter		
		Number (Alternate RES10F12-M - no Y caps)				stage marker	V1.03	

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

RES10F12



COMMON MODE



DIFFERENTIAL MODE



RES10 Chassis Mounted General Purpose Filters

Options Available:

Part Number	Rated Current @40°C	Leakage Current @ 230V/50Hz	Inductance ΣL mH	Capacitance ΣCx uF	Capacitance ΣCy nF	Resistance ΣR K Ω	Connection Type	
								
RES10F01	1	0.74	12	0.1	9.4	1000	F	W
RES10F03	3	0.74	2.5	0.1	9.4	1000	F	W
RES10F06	6	0.74	1.0	0.1	9.4	1000	F	W
RES10F10	10	0.74	0.8	0.1	9.4	1000	F	W
RES10F12	12	0.74	0.7	0.1	9.4	1000	F	W
RES10F13	13	0.74	0.7	0.1	9.4	1000	F	W
RES10F16	16	0.74	0.7	0.1	9.4	1000	F	W
RES10F20	20	0.74	0.6	0.1	9.4	1000	F	W
RES10S20	20	0.74	0.6	0.1	9.4	1000		W S
RES10S30	30	0.87	0.7	0.47	20	1000		S
RES10S60	60	0.87	1	1.5	20	330		S

Call us on:

Tel: +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