

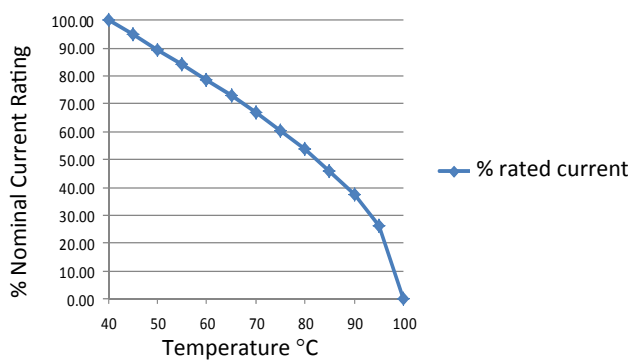
RES20 Chassis Mounted Filter

High Differential Mode

The RES20 series of single phase filters from Roxburgh are designed for quick and easy chassis mounting. Featuring high differential attenuation the RES20 series is suitable for a broad range of applications.



**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 high differential attenuation
- 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

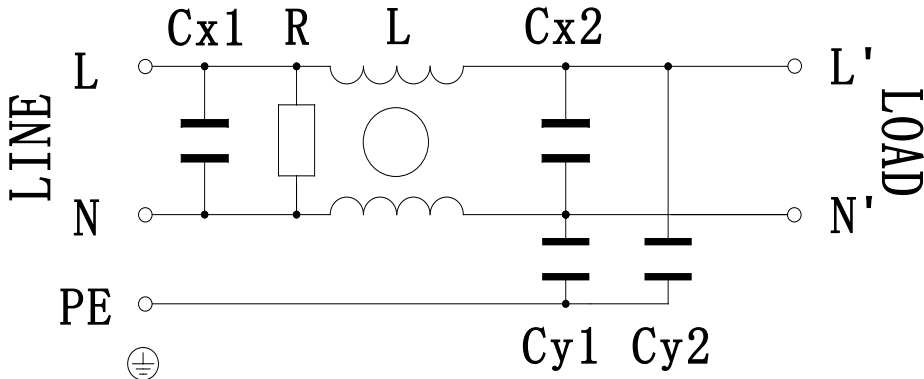
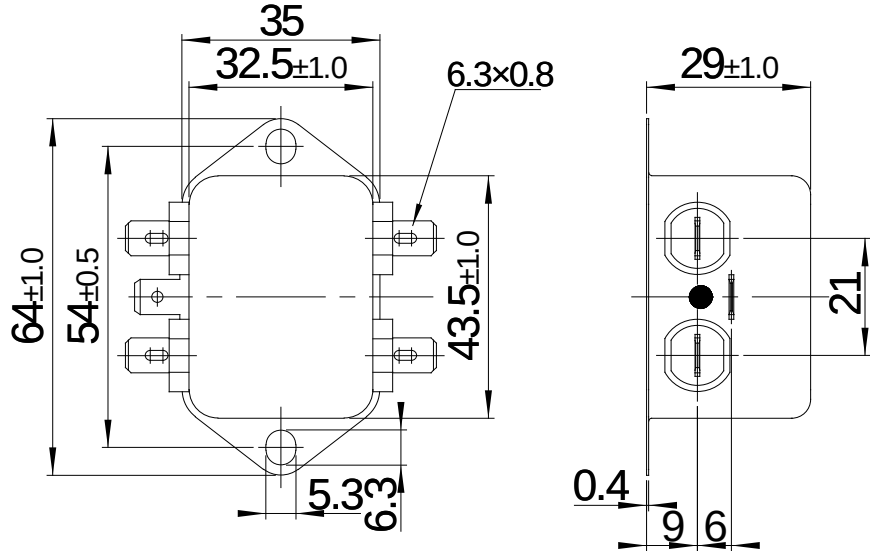
ROXBURGH *EMC*



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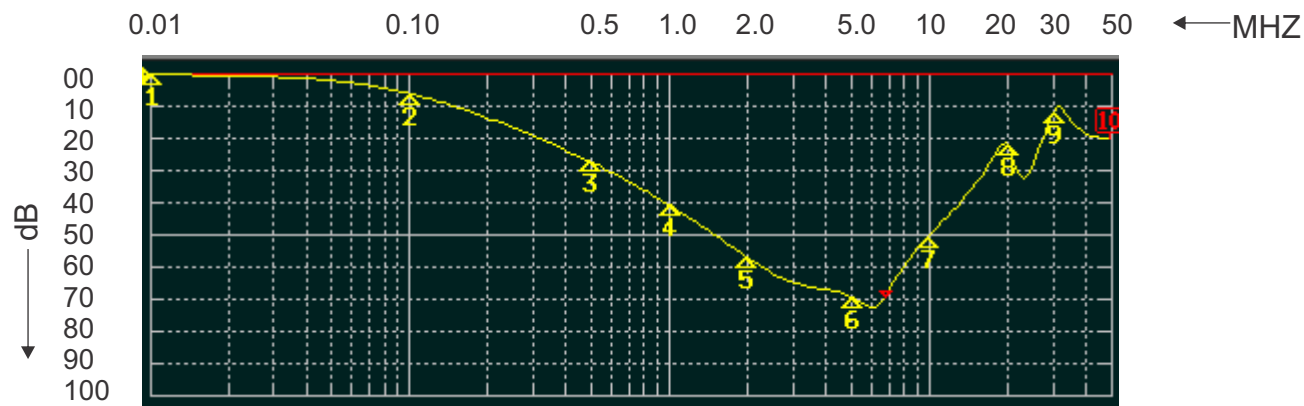
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

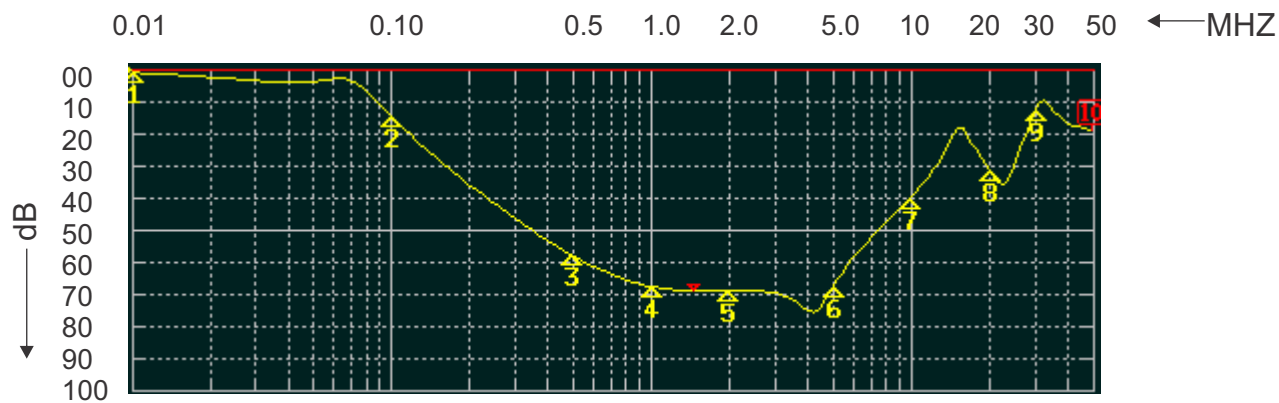
Circuit diagram:		Dimensions(mm):								
										
Electrical parameters:		Filter parameters:								
Rated Voltage:		120/250VAC		Total Inductance(L-L'/N-N'):		12mH +50%,-35%				
Rated Current at an ambient temp:		1A@40°C		Total Capacitance(L-N/L'-N'):		0.3uF +/-20%				
Operating Frequency:		50/60Hz		Total Capacitance(L/N-PE) (RES20F01-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 (RES20F01-M 0mA)		Weight(Approximate):		70g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.46mA max (RES20F01-M 0mA)		Safety certification			Technical Specification			
Test Voltage(100%)for 2 sec:				UL	☒	CSA	☒	compiled by	Jay Zhang	2020-8-5
L-N:		1100VDC/20mA		ENEC	☒	CQC	☐	reviewed by	Pallas Wang	2020-8-5
L/N-PE:		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 RES20F01				single-phase emc filter		
				Number (Alternate RES20F01-M - no Y caps)				stage marker		V1.03

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

RES20F01



COMMON MODE



DIFFERENTIAL MODE



RES20 Chassis Mounted Filter

High Differential Mode

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		
									
RES20F01	1	0.74	12	0.3	9.4	1000	F	W	
RES20F03	3	0.74	2.5	0.3	9.4	1000	F	W	
RES20F06	6	0.74	1	0.3	9.4	1000	F	W	
RES20F10	10	0.74	0.8	0.3	9.4	1000	F	W	
RES20F12	12	0.74	0.7	0.3	9.4	1000	F	W	
RES20F16	16	0.74	0.65	0.3	9.4	1000	F	W	
RES20F20	20	0.74	0.6	0.3	9.4	1000	F	W	
RES20S20	20	0.74	0.6	0.3	9.4	1000		W	S
RES20S30	30	0.87	0.67	0.94	20	470			S
RES20S60	60	0.87	1	1.5	20	220			S

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