

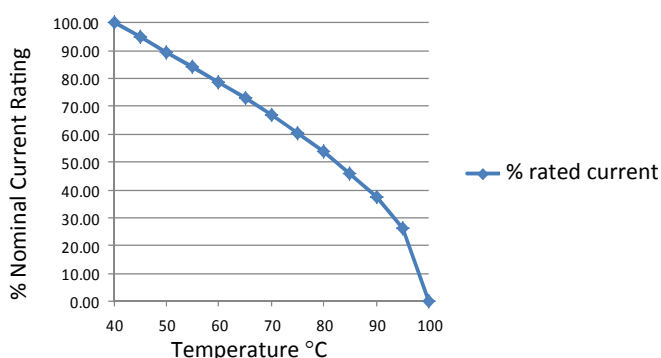
RES30 Chassis Mounted Filter

High Differential Mode and High Performance

Roxburgh's RES30 single phase chassis mounting filters offer high differential attenuation. These high performance 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:

- Single phase high performance
- High differential attenuation
- UL approved E191581
- For use from DC to 400Hz
- 1 Amp to 30 Amp

Benefits:

- Compact size for rated current
- Fast-on, screw or wire terminations
- Quick and easy mounting
- Available from UK stock

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

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ROXBURGH *EMC*



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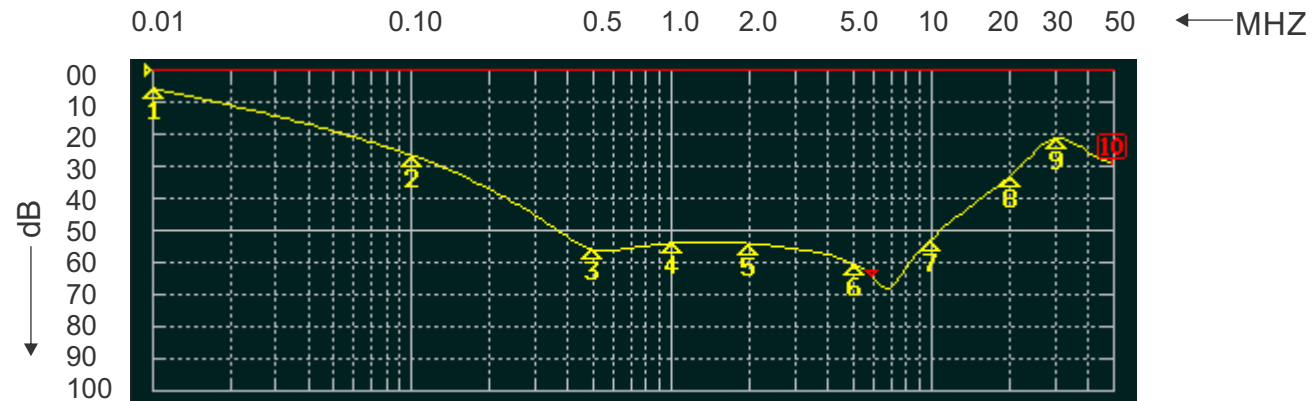
Web: www.dem-uk.com/roxburgh

Circuit diagram:		Dimensions(mm):								
Electrical parameters:		Filter parameters:								
Rated Voltage:		120/250VAC		Total Inductance(L-L'/N-N'):		4mH +50%,-35%				
Rated Current at an ambient temp:		20A@40°C		Total Capacitance(L-N/L'-N'):		2uF +/-20%				
Operating Frequency:		50/60Hz		Total Capacitance(L/N-PE) (RES30F20-M):		20nF +/-20% (0nF)				
Climatic Class(IEC60068-1):		25/100/21		Total Resistance(L-N/L'-N'):		330KΩ +/-10%				
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)		0.95mA max (RES30F20-M 0mA)		Weight(Approximate):		300g				
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)		0.55mA max (RES30F20-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
		Part				RES30F20		single-phase emc filter		
		Number (Alternate RES30F20-M - no Y caps)						stage marker	V1.03	
		+44 (0)1724 273200 sales@dem-uk.com www.dem-uk.com/roxburgh								

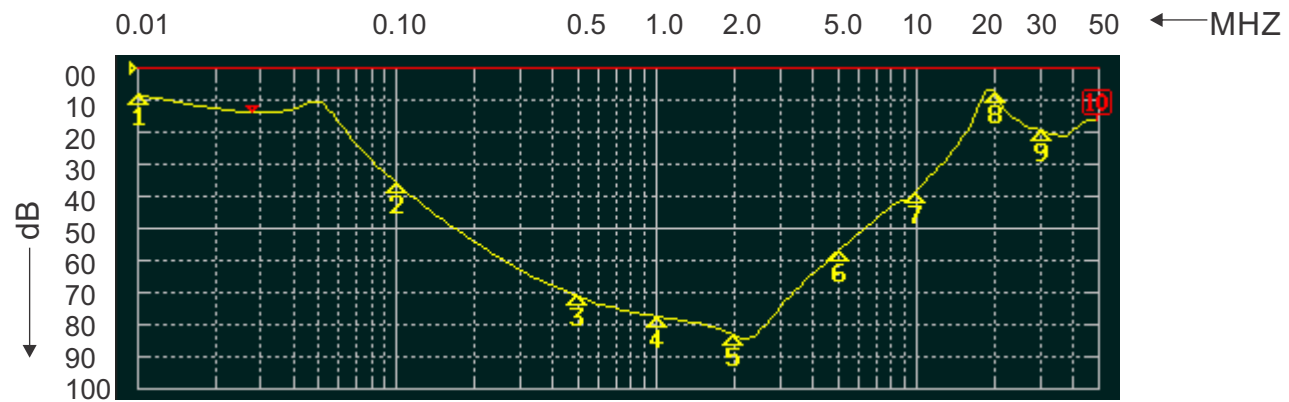
ROXBURGH EMC

FILTER INSERTION LOSS CHARACTERISTICS CISPR 17 - 50 OHM METHOD

RES30F20



COMMON MODE



DIFFERENTIAL MODE



RES30 Chassis Mounted Filter

High Differential Mode and High Performance

Options available:

Part Number	Rated Current @40°C	Leakage Current @ 230V/50Hz	Inductance ΣL	Capacitance ΣCx	Capacitance ΣCy	Resistance ΣR	Connection Type	
							  	
RES30F01	1	0.34	20	0.44	4.4	1000	F	W
RES30F03	3	0.52	14	0.66	6.6	1000	F	W
RES30F06	6	0.73	8	0.94	9.4	680	F	W
RES30F10	10	0.73	8	0.94	9.4	680	F	W
RES30F16	16	0.87	4	2.00	20	330	F	W
RES30F20	20	0.87	4	2.00	20	330	F	W
RES30S20	20	0.87	4	2.00	20	330		W S
RES30S30	30	0.87	2	2.00	20	330		S

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