

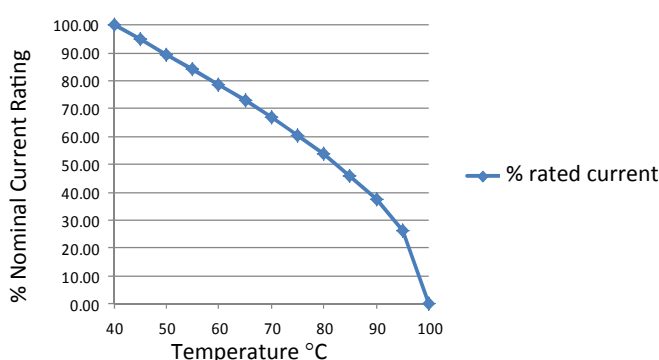
RES30 Chassis Mounted Filter

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**



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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

Deltron Emcon House
Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe, North Lincolnshire.
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ROXBURGH EMC

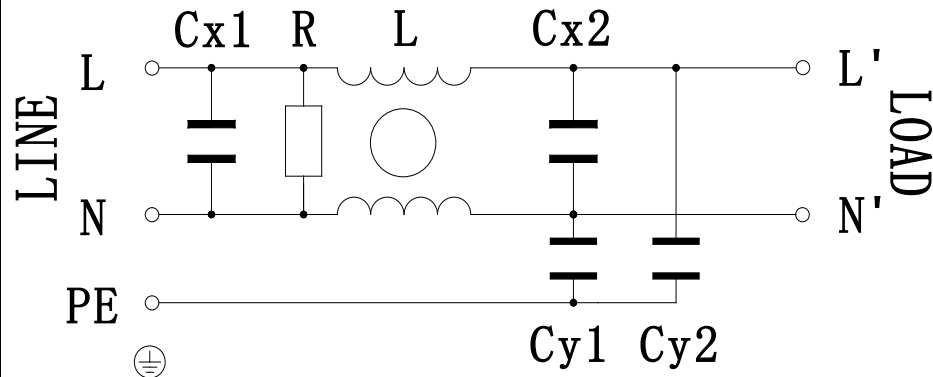


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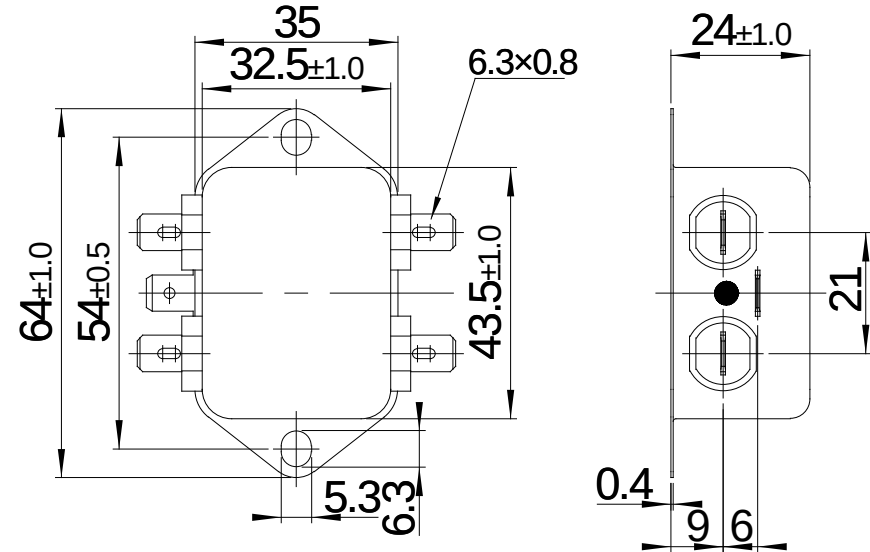
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:



Dimensions(mm):



Electrical parameters:

Rated Voltage:	120/250VAC
Rated Current at an ambient temp:	1A@40°C
Operating Frequency:	50/60Hz
Climatic Class(IEC60068-1):	25/100/21
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.38mA max (RES30F01-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.22mA max (RES30F01-M 0mA)
Test Voltage(100%)for 2 sec:	
L-N:	1100VDC/20mA
L/N-PE:	2250VDC/20mA

Filter parameters:

Total Inductance(L-L'/N-N'):	20mH +50%,-35%
Total Capacitance(L-N/L'-N'):	0.44uF +/-20%
Total Capacitance(L/N-PE) (RES30F01-M):	4.4nF +/-20% (0nF)
Total Resistance(L-N/L'-N'):	1MΩ +/-10%
Weight(Approximate):	65g

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

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Part **RES30F01**

Number (Alternate RES30F01-M - no Y caps)

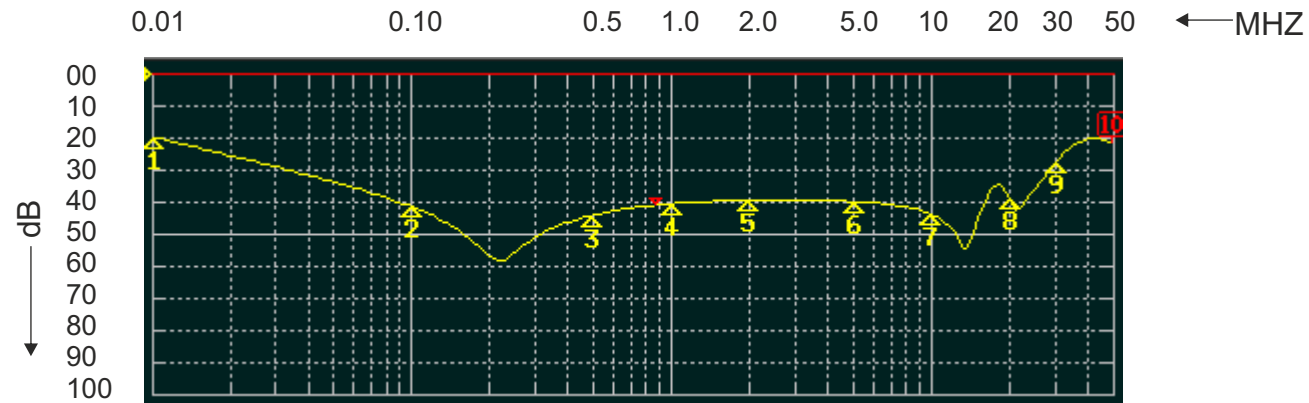
single-phase emc filter

stage marker V1.03

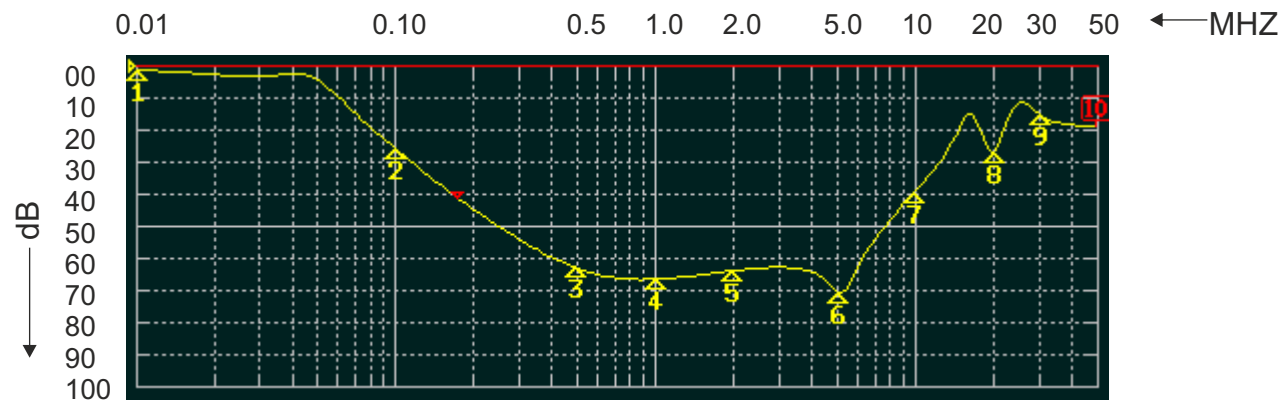
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FILTER INSERTION LOSS CHARACTERISTICS CISPR 17 - 50 OHM METHOD

RES30F01



COMMON MODE



DIFFERENTIAL MODE



RES30 Chassis Mounted Filter

High Differential Mode and High Performance

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		
									
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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