

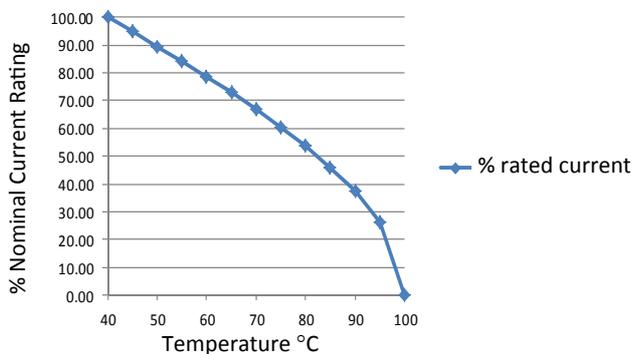
RES90 Chassis Mounted Filter

Very High Differential and Common Mode

Roxburgh's RES90 series is a multi-stage EMC filter with very high differential and common mode attenuation. Featuring excellent attenuation performance this series is suitable for noisy applications 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:

- Multi-stage
- Very high differential and common mode attenuation
- Excellent attenuation performance
- 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
- 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
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Scunthorpe, North Lincolnshire.
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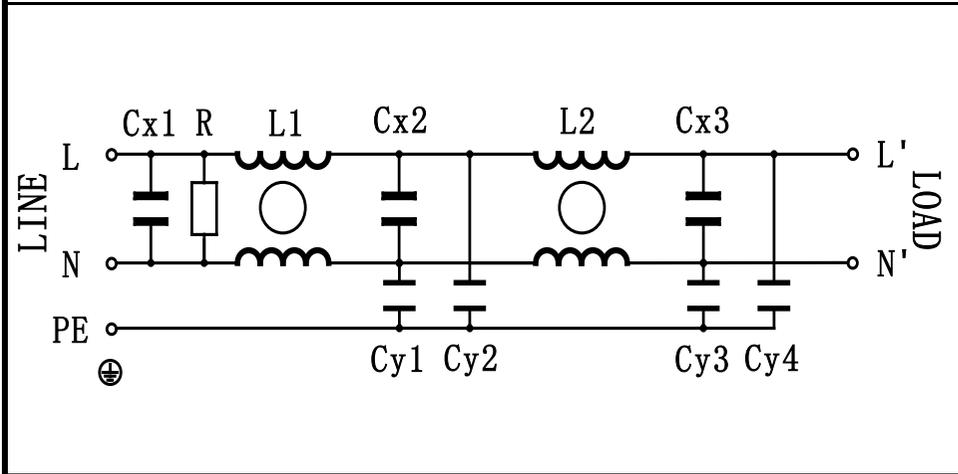


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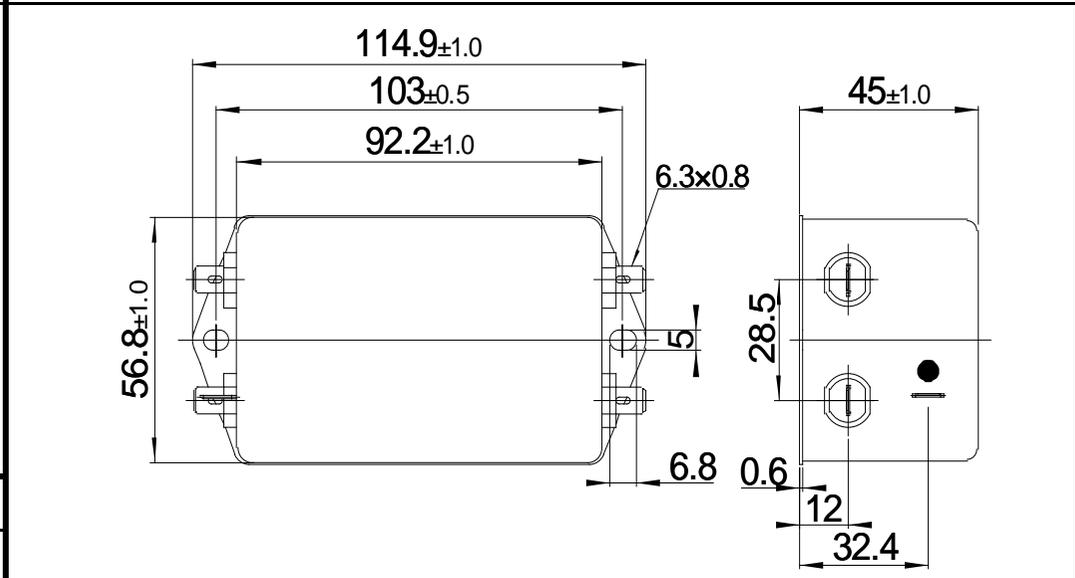
Email: sales@dem-uk.com

Web: www.dem-uk.com/roxburgh

Circuit diagram:



Dimensions(mm):



Electrical parameters:

Rated Voltage:	120/250VAC
Rated Current at an ambient temp:	10A@40°C
Operating Frequency:	50/60Hz
Climatic Class(IEC60068-1):	25/100/21
Operational Leakage current: (at 250VAC/50Hz and Total C +/-20%)	0.73mA max (RES90F10-M 0mA)
Operational Leakage current: (at 120VAC/60Hz and Total C +/-20%)	0.43mA max (RES90F10-M 0mA)
Test Voltage(100%)for 2 sec:	L-N:
	L/N-PE:

Filter parameters:

Total Inductance(L-L'/N-N'):	16mH +50%,-35%
Total Capacitance(L-N/L'-N'):	1.41uF +/-20%
Total Capacitance(L/N-PE) (RES90F10-M):	8.6nF +/-20% (0nF)
Total Resistance(L-N/L'-N'):	330KΩ +/-10%
Weight(Approximate):	465g

Safety certification

UL	<input checked="" type="checkbox"/>	CSA	<input checked="" type="checkbox"/>
ENEC	<input checked="" type="checkbox"/>	CQC	<input type="checkbox"/>
CE	<input checked="" type="checkbox"/>	VDE	<input type="checkbox"/>

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 **RES90F10**
Number (Alternate RES90F10-M - no Y caps)

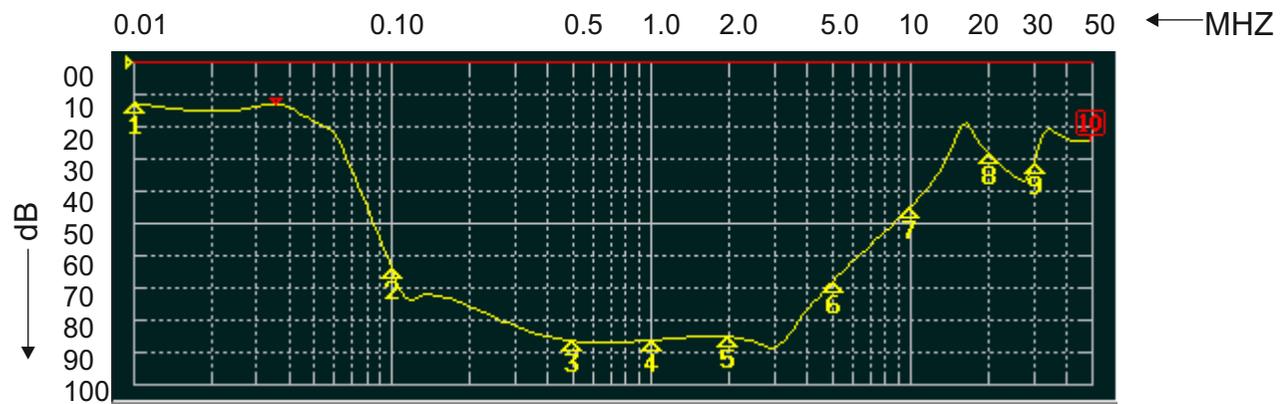
single-phase emc filter
stage marker V1.03

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

RES90F10



COMMON MODE



DIFFERENTIAL MODE



RES90 Chassis Mounted Filter

Very High Differential and Common 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		
									
RES90F01	1	0.5	40	0.66	6.4	680	F	W	
RES90F03	3	0.5	28	0.99	6.4	470	F	W	
RES90F06	6	0.67	16	1.41	8.6	330	F	W	
RES90F10	10	0.67	16	1.41	8.6	330	F	W	
RES90F16	16	1.02	08	3.00	22	220	F	W	
RES90F20	20	1.02	5.4	3.00	22	220	F		
RES90S20	20	1.02	5.4	3.00	22	220			S
RES90S30	30	1.02	3.0	3.00	22	220			S

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