

Single Phase EMI Filter – MF130 Medical Version

Description

Filter with additional differential mode rejection in low frequency. For use with switched mode power supplies to reduce noise from power supply back into the mains. Filter also provides good attenuation of incoming interference

Features

- Double stage filter
- Ultra-low leakage current
- High conducted attenuation performance
- Superior Performance
- Chassis mounting

Applications

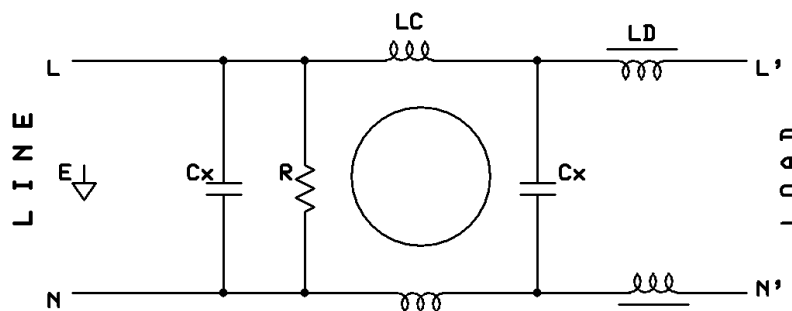
- Power Systems
- Electronic Equipment
- Frequency convertors
- SMPS
- Escalators



Safety Approval & Compliance



Typical circuit Diagram



Technical Specifications

Maximum Continuous Operating Voltage	: 250VAC
Operating Frequency	: 50/60Hz
Current ratings	: 1A to 60A @40°C
High Potential test voltage	: L to G 2250Vdc for 1 Minute L to L 1450Vdc for 1 Minute
Overload Capability	: 135% of Rated current for 15 minutes
Design Corresponding to	: UL1283, CSA 22.2 No.8-13 and IEC 60939
Flammability corresponding to	: UL 94 V-0
Temperature range	: -25°C to +85°C
Climatic Category	: 25/85/21

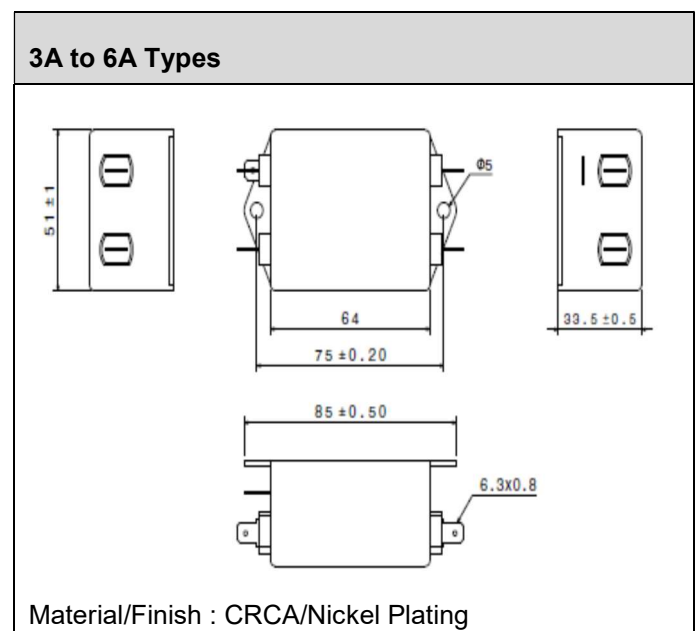
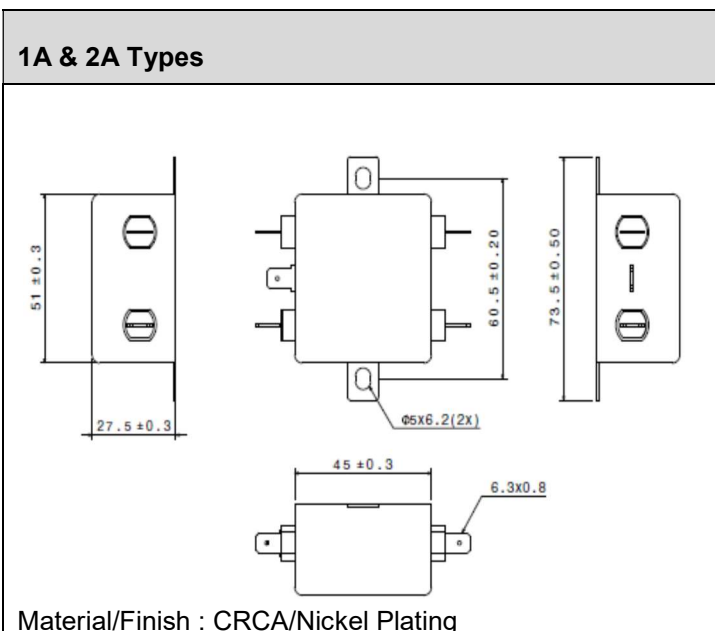
Image shown above is just for reference

Selection Table

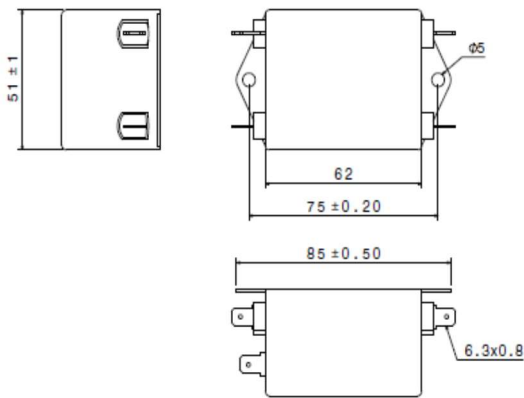
Part Number	Ordering Code	Rated Current @40°C	Leakage Current @250VAC 50Hz (μA)	Termination 		Weight (Grams)
MF130 – 01	S130000001S	1A	5	6.3 x 0.8		125
MF130 – 02	S130000002S	2A	5	6.3 x 0.8		125
MF130 – 03	S130000003S	3A	5	6.3 x 0.8		165
MF130 - 06	S130000006S	6A	5	6.3 x 0.8		165
MF130 - 10	S130000010S	10A	5	6.3 x 0.8		260
MF130-12	S130000012S	12A	5		M5 Screw	
MF130 - 15	S130000015N	15A	5		M5 Screw	600
MF130 - 20	S130000020N	20A	5		M5 Screw	600
MF130 - 25	S130000025N	25A	5		M5 Screw	600
MF130 - 30	S130000030N	30A	5		M5 Screw	600
MF130 - 40	S130000040N	40A	5		M5 Screw	600
MF130 - 50	S130000050N	50A	5		M6 Screw	600
MF130-60	S130000060N	60A	5		M6 Screw	800

Note: Customized filters are provided on request.

Mechanical Drawing

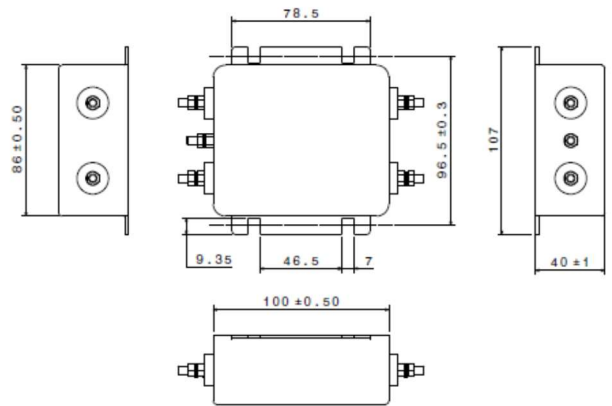


10A Type



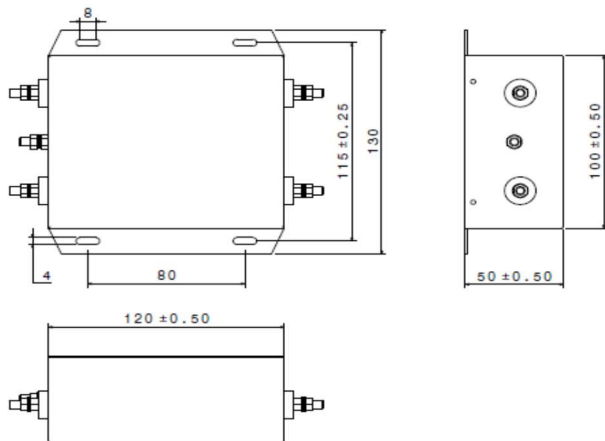
Material/Finish : CRCA/Nickel Plating

12A to 20A Types



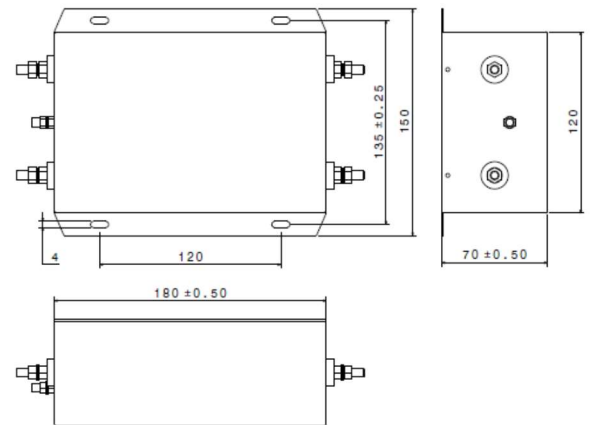
Material/Finish : CRCA/Nickel Plating

30A to 40A Types



Material : Aluminium

50A to 60A Types



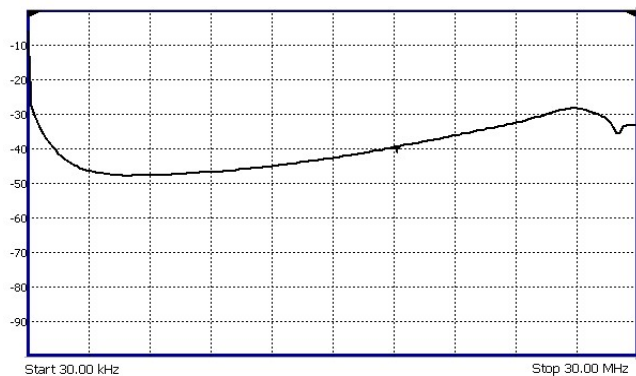
Material : Aluminium

Thread Size	M5	M6
Recommended Torque (Nm)	2-3	3.5-4

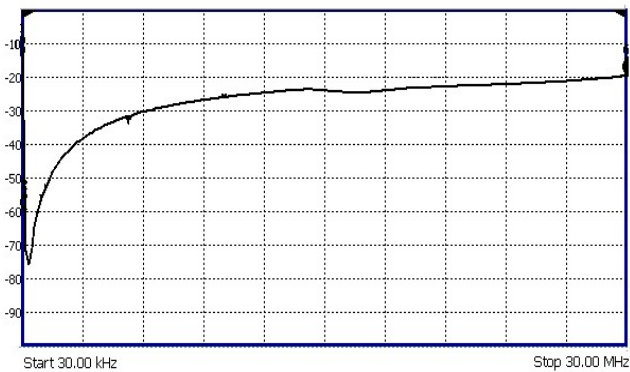
All dimensions in mm; Tolerances according: ISO2768-m

Insertion Loss – (Common Mode)

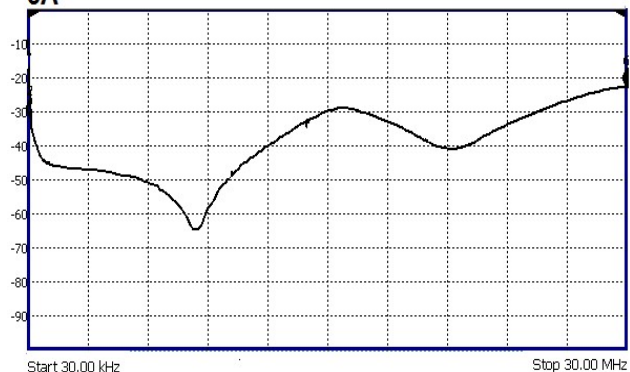
1A



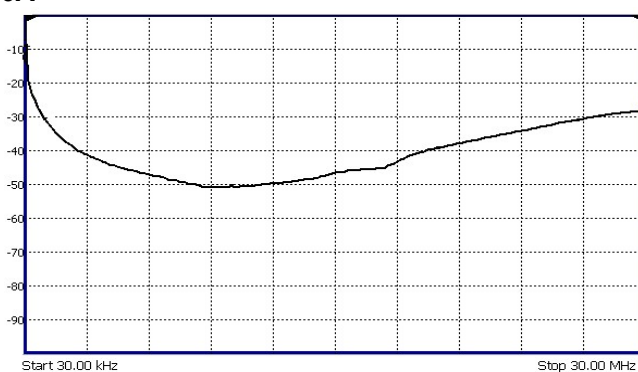
2A



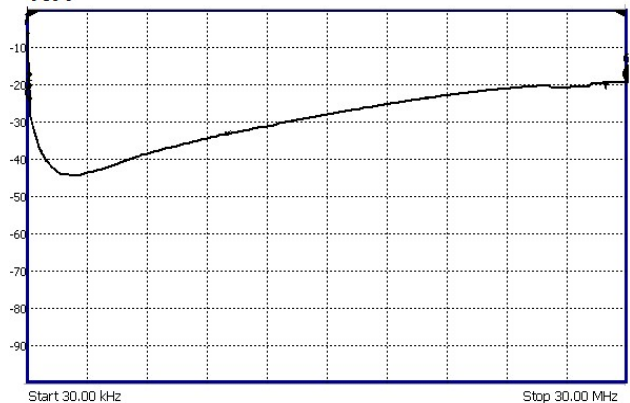
3A



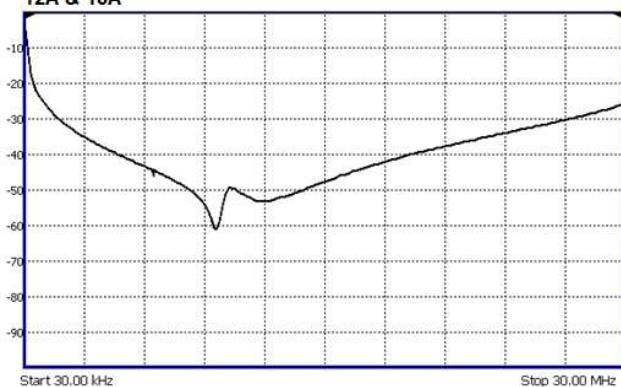
6A



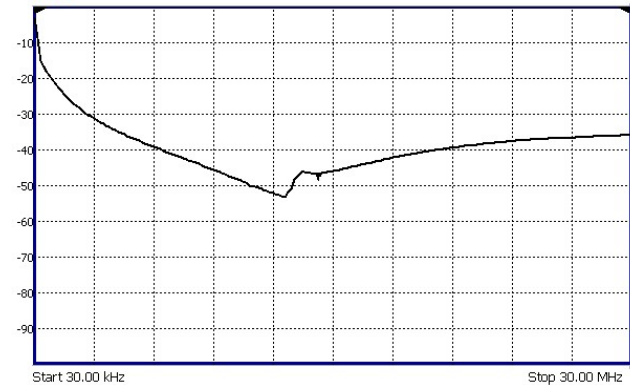
10A



12A & 15A



20A



25A

