

Single Phase EMI Filter – MF120 Medical Version

Description

These series range of General Purpose filters are designed to suppress undesirable electrical disturbances in Power Lines. They limit the amplitude of interfering voltages on AC power lines and prevent them from propagating into or out of the filtered equipment.

Features

- Rated Current up to 125A
- Ultra-low leakage current
- High Conducted attenuation performance
- Chassis mounting



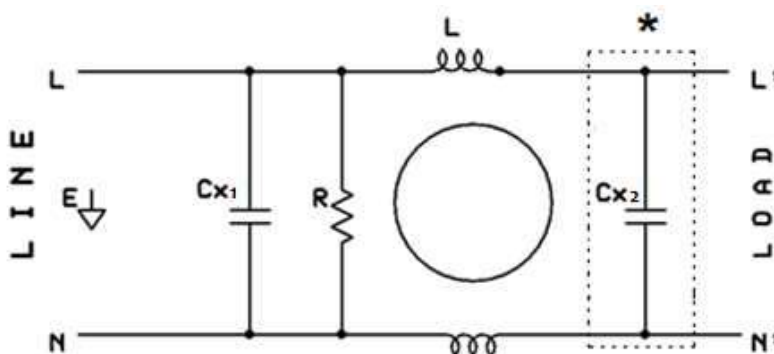
Applications

- Medical Equipment
- Diagnostic Equipment
- X-Ray Machines
- Low Leakage Applications

Safety Approval & Compliance



Typical circuit Diagram





* From the current rating 20Amps Cx2 capacitor will be included in the circuit

Technical Specifications

Maximum Continuous Operating Voltage	: 250VAC
Operating Frequency	: 50/60Hz
Current ratings	: 1A to 125A @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

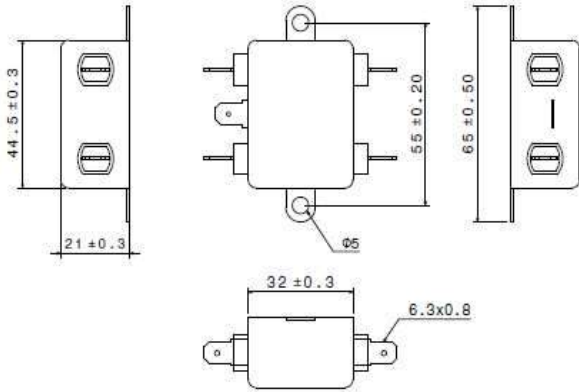
Image shown above is just for reference

Selection Table

Part Number	Ordering Code	Rated Current @40°C	Leakage Current @250VAC/50Hz (µA)	Termination		Weight (Kgs)
						
MF120 – 01	S120000001S	1A	5	6.3 x 0.8		0.06
MF120 – 02	S120000002S	2A	5	6.3 x 0.8		0.06
MF120 – 03	S120000003S	3A	5	6.3 x 0.8		0.06
MF120 - 06	S120000006S	6A	5	6.3 x 0.8		0.06
MF120 - 10	S120000010S	10A	5	6.3 x 0.8		0.06
MF120 - 15	S120000015S	15A	5	6.3 x 0.8		0.125
MF120 - 16	S120000016S	16A	5	6.3 x 0.8		0.125
MF120 - 20	S120000020S	20A	5	6.3 x 0.8		0.260
MF120 - 25	S120000025N	25A	5		M5	0.6
MF120 - 30	S120000030N	30A	5		M5	0.6
MF120 - 35	S120000035N	35A	5		M5	0.6
MF120 - 40	S120000040N	40A	5		M5	0.6
MF120 - 50	S120000050N	50A	5		M6	1
MF120 - 60	S120000060N	60A	5		M6	1
MF120 - 75	S120000075N	75A	5		M8	2
MF120 - 80	S120000080N	80A	5		M8	2
MF120 - 100	S120000100N	100A	5		M10	2
MF120-125	S120000125N	125A	5		M10	3

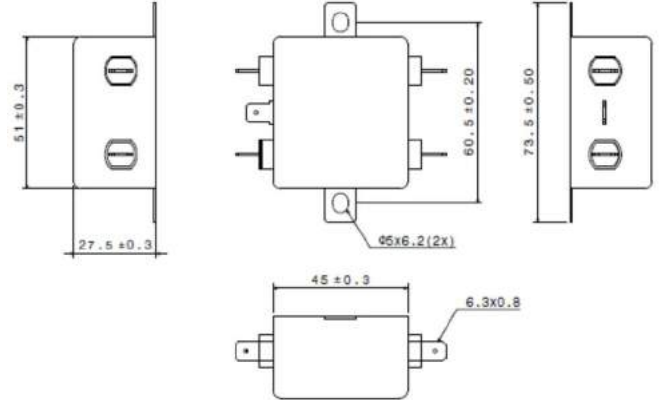
Note: Customized filters are provided on request.

1 to 10A Types



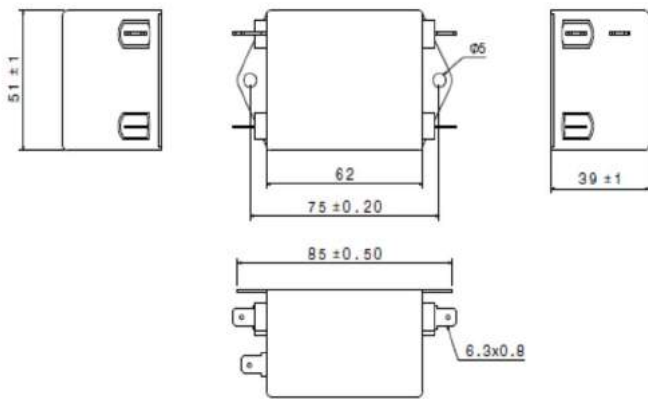
Material/Finish : CRCA/Nickel Plating

15A & 16A Types



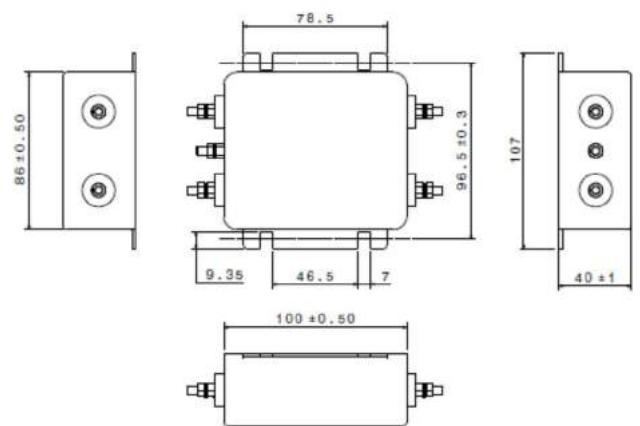
Material/Finish : CRCA/Nickel Plating

20A Type



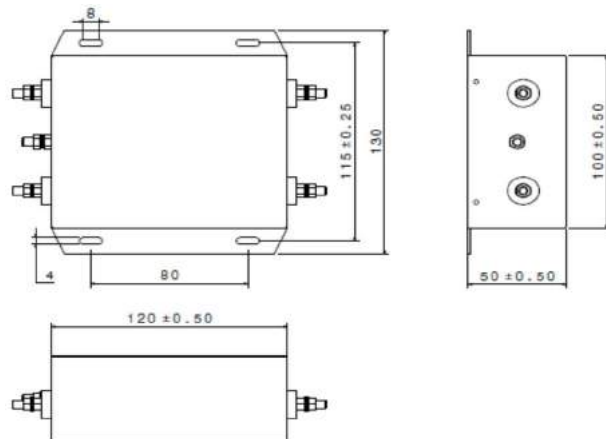
Material/Finish : CRCA/Nickel Plating

25A to 40A Types



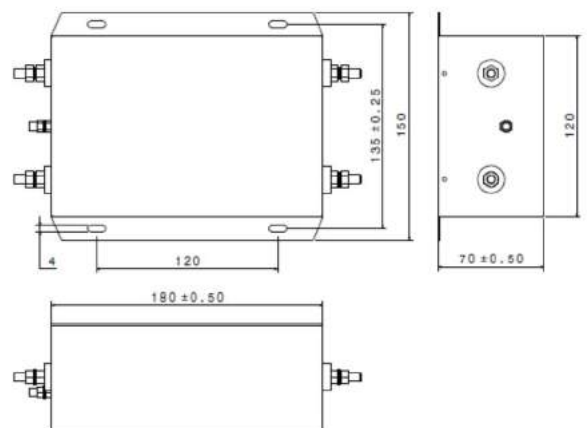
Material/Finish : CRCA/Nickel Plating

50A to 60A Types



Material : Aluminium

75A to 125A Types

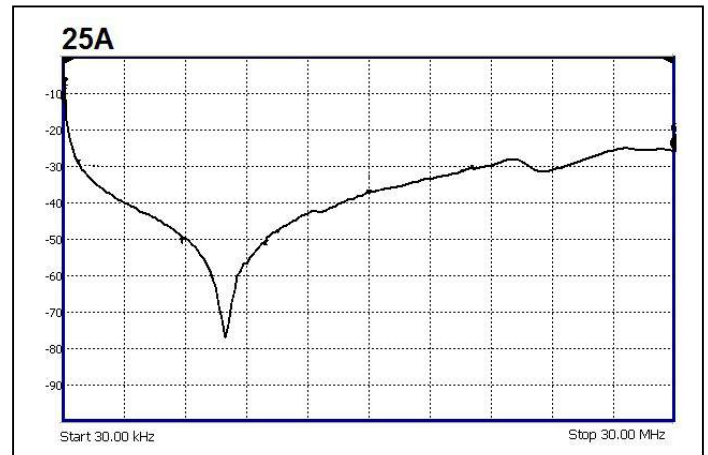
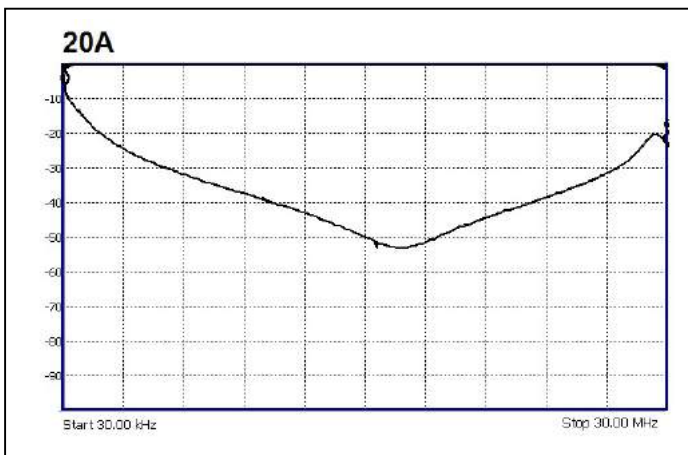
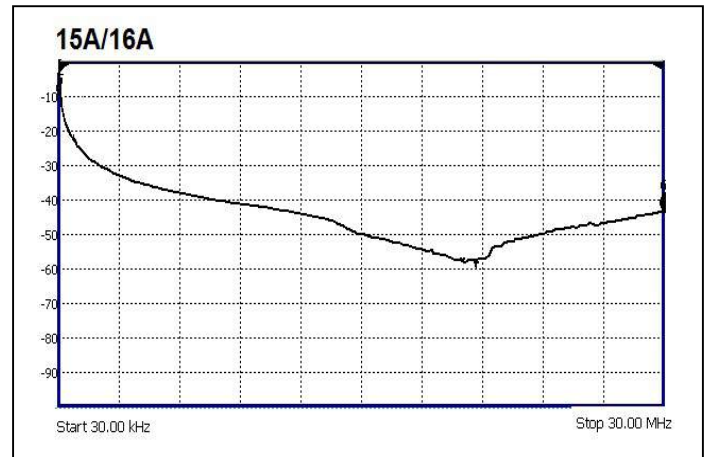
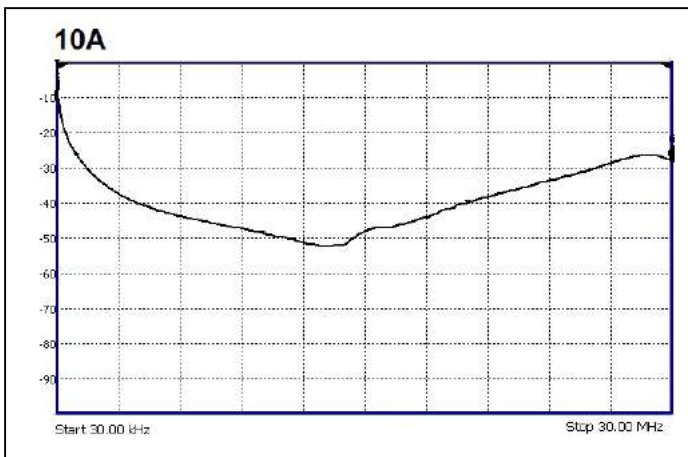
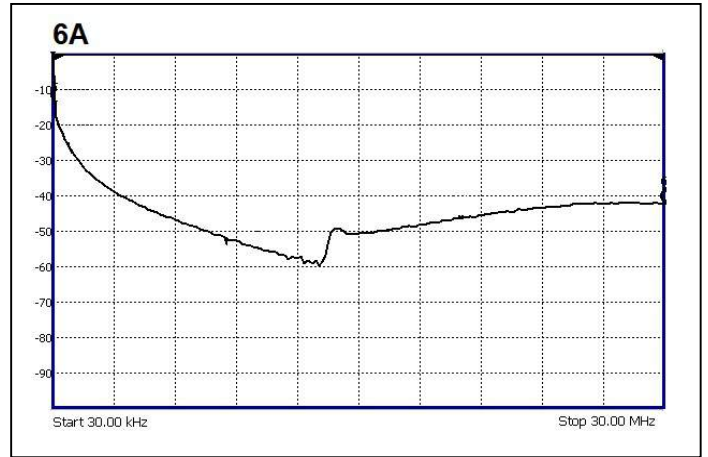
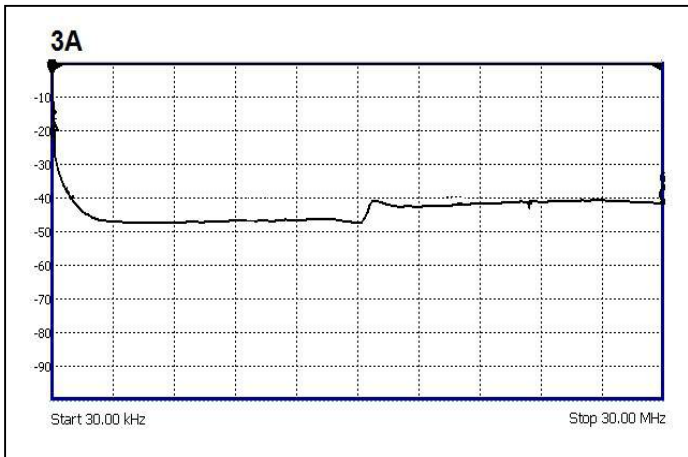
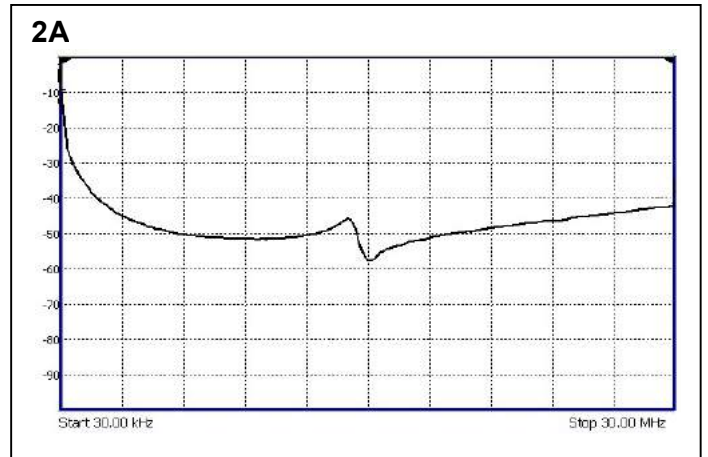
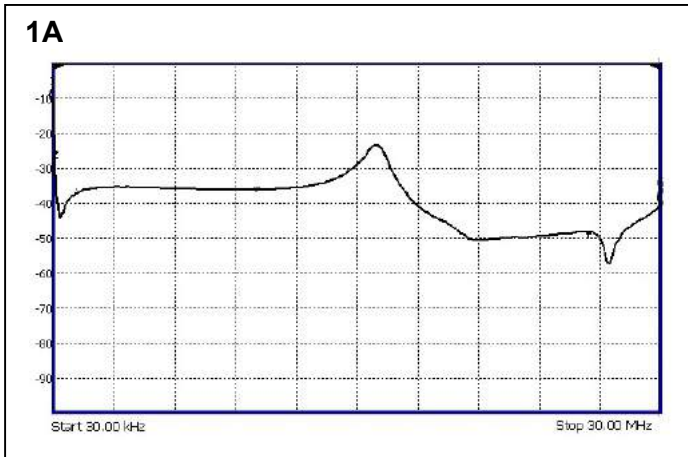


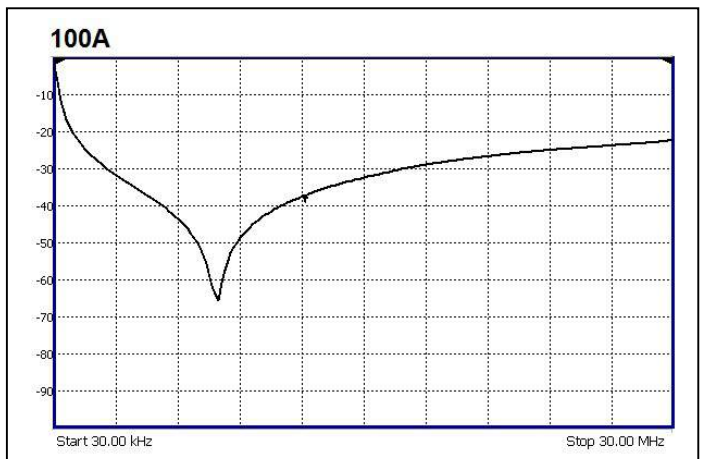
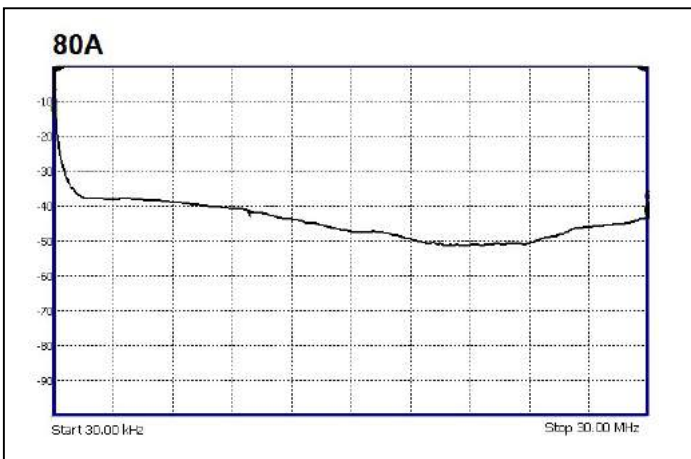
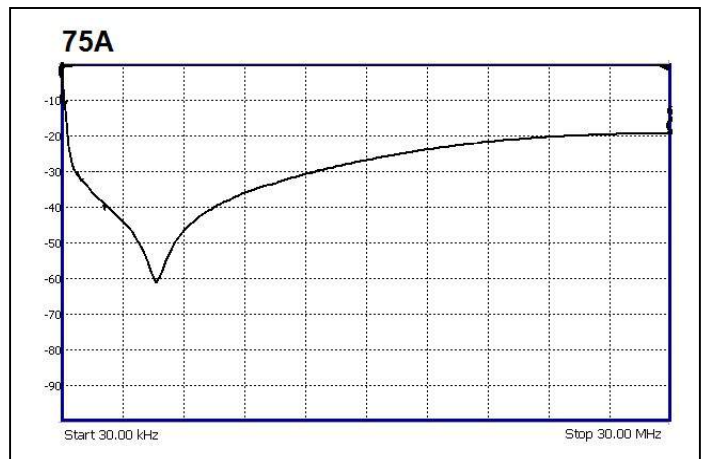
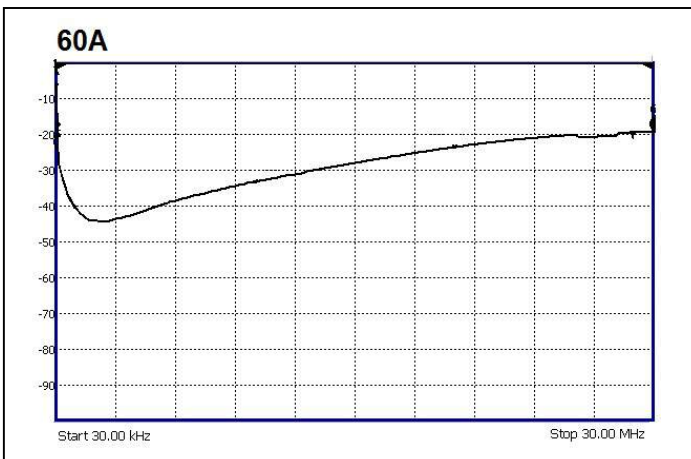
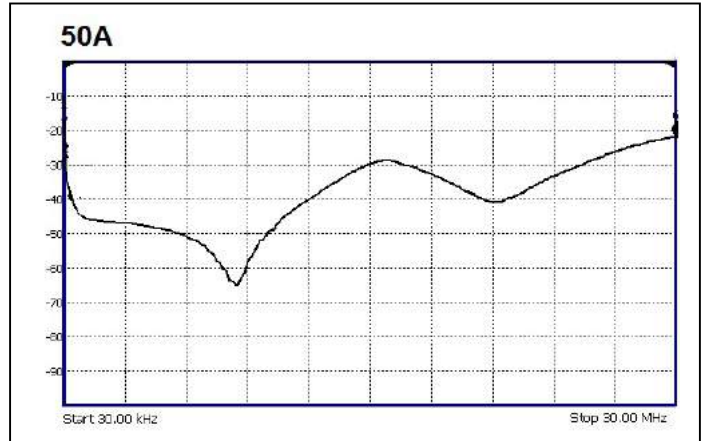
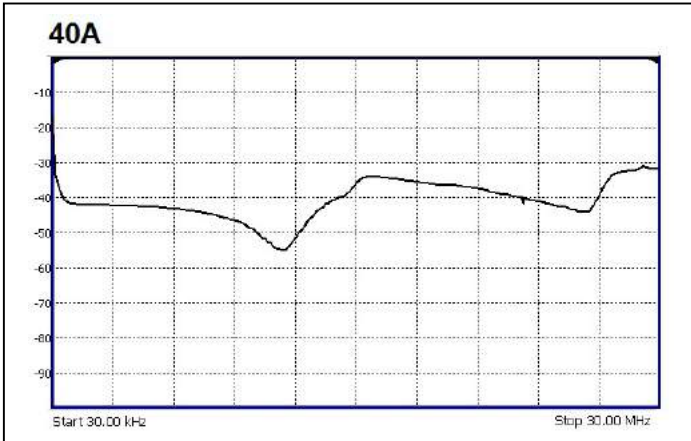
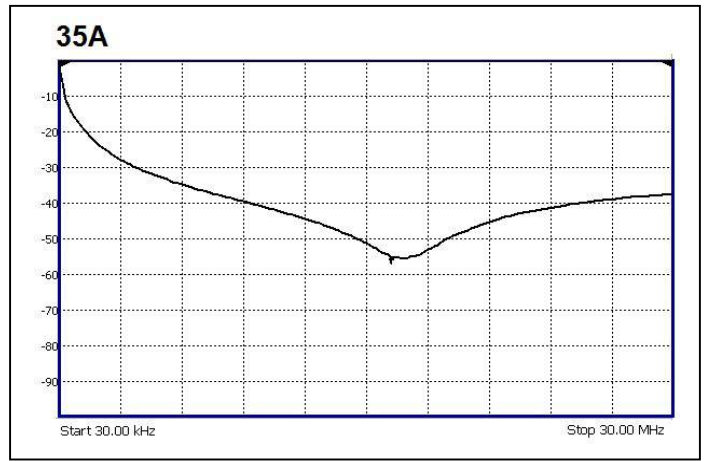
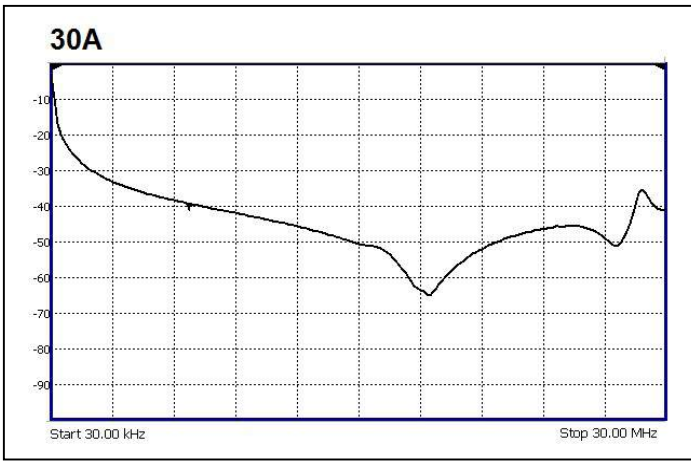
Material : Aluminium

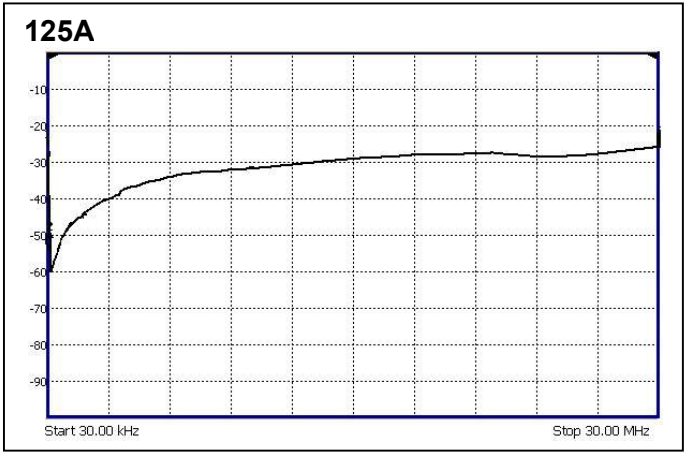
Thread Size	M5	M6	M8	M10
Recommended Torque (Nm)	2-3	3.5-4	10-14	15-17

All dimensions in mm; Tolerances according to ISO2768-m

Insertion Loss – (Common Mode)







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