


**DATASHEET**

# SINGLE PHASE EMI FILTER – MF120 MEDICAL VERSION

**Description**

These series range of ultra-low leakage General Purpose filters are designed to suppress undesirable electrical disturbances in Power Lines for medical application.

**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	CSA 22.2 No.8-13 and UL 60939-3
Flammability corresponding to	UL 94 V-0
Temperature range	-25°C to +85°C
Climatic Category	25/85/21
Enclosure Material/Finish	CRCA/Nickel Plated – 1A to 40A Aluminium – 50A to 125A

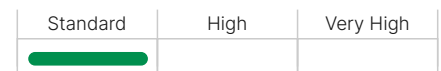
**Approval & Compliance**

**Features**

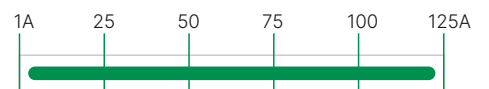
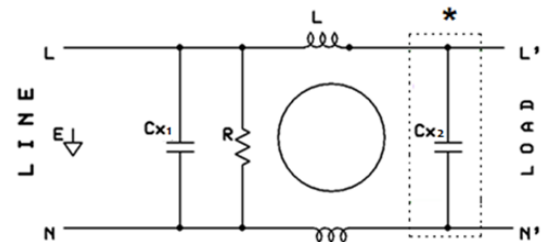
- Rated Current up to 125A
- Ultra-low leakage current
- High Conducted attenuation performance
- Chassis mounting

**Applications**

- Test Equipment
- X-ray machines
- Monitoring Equipment
- ECG Machines



**Performance Indicator**


Rated current [A]

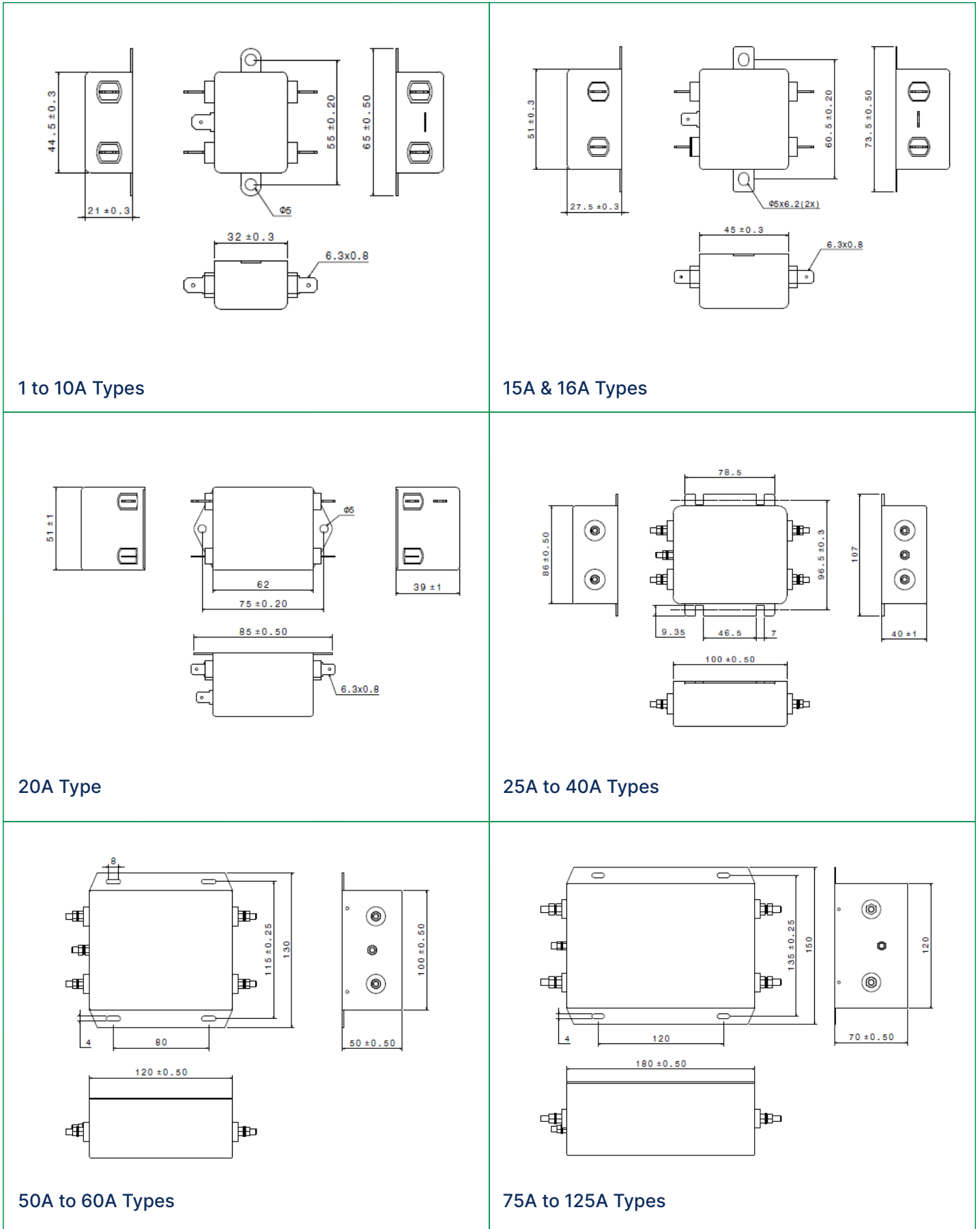

**Typical circuit Diagram**


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

## Ordering Code Information

Part Number	Ordering Code	Rated Current @40°C	Leakage Current @250VAC/50Hz (µA)	Termination		Weight (Kgs)
						
MF120	E101892-2	1A	5	6.3 x 0.8		0.06
MF120	E101892-3	2A	5	6.3 x 0.8		0.06
MF120	E101892-4	3A	5	6.3 x 0.8		0.06
MF120	E101892-5	6A	5	6.3 x 0.8		0.06
MF120	E101892-6	10A	5	6.3 x 0.8		0.06
MF120	E101892-7	15A	5	6.3 x 0.8		0.125
MF120	E101892-8	16A	5	6.3 x 0.8		0.125
MF120	E101892-9	20A	5	6.3 x 0.8		0.260
MF120	E101892-10	25A	5		M5	0.6
MF120	E101892-11	30A	5		M5	0.6
MF120	E101892-12	35A	5		M5	0.6
MF120	E101892-13	40A	5		M5	0.6
MF120	E101892-14	50A	5		M6	1
MF120	E101892-15	60A	5		M8	1
MF120	E101892-16	75A	5		M8	3
MF120	E101892-17	80A	5		M8	3
MF120	E101892-18	100A	5		M10	3
MF120	E101892-19	125A	5		M10	3

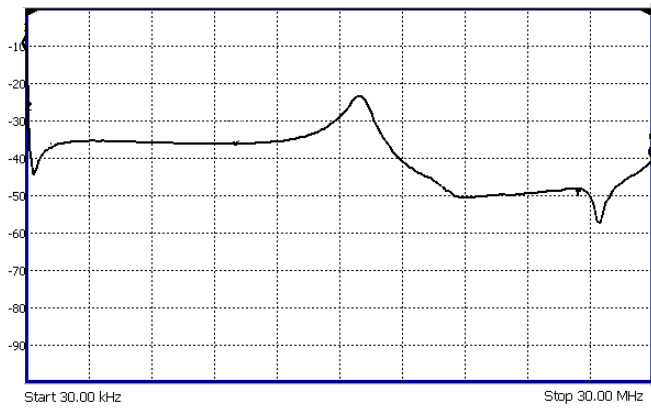
# Mechanical Drawing



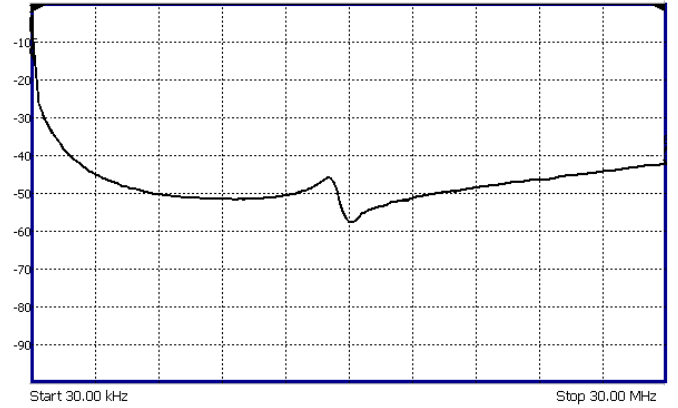
Thread Size	M5	M6	M8	M10
Recommended Torque (Nm)	2-3	3.5-4	10-14	15-17

Note: All dimensions in mm; Tolerances according to ISO2768-m

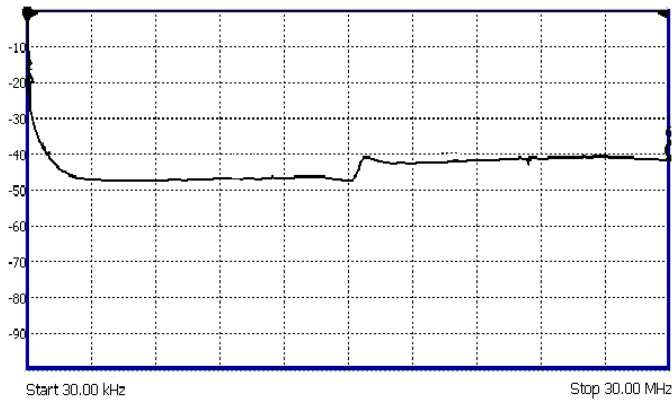
# Insertion Loss – (Common Mode)



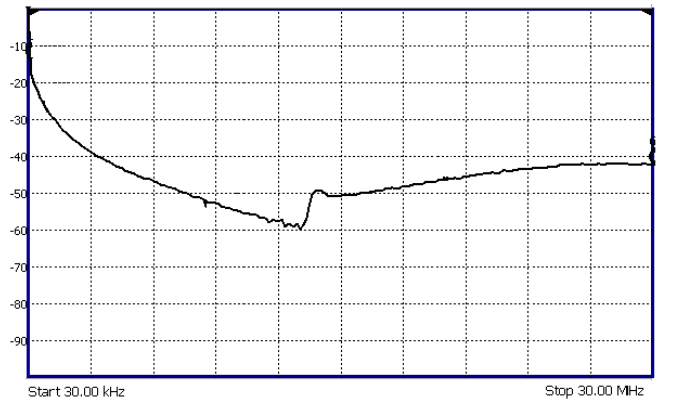
1A



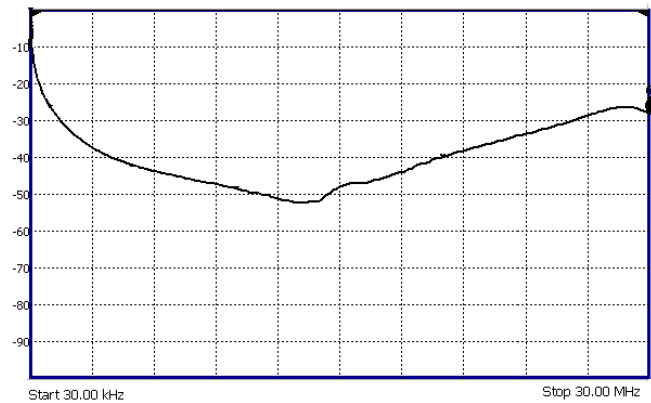
2A



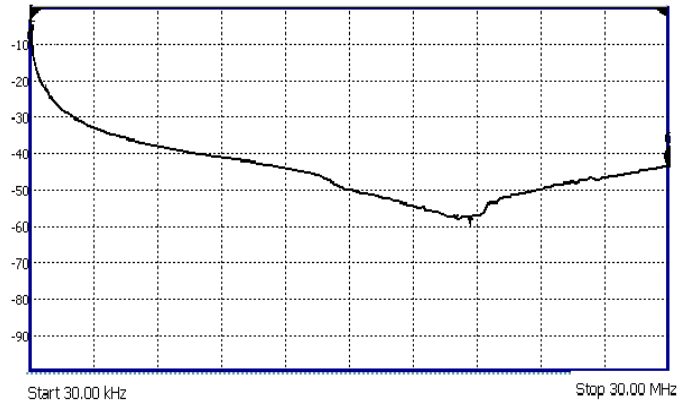
3A



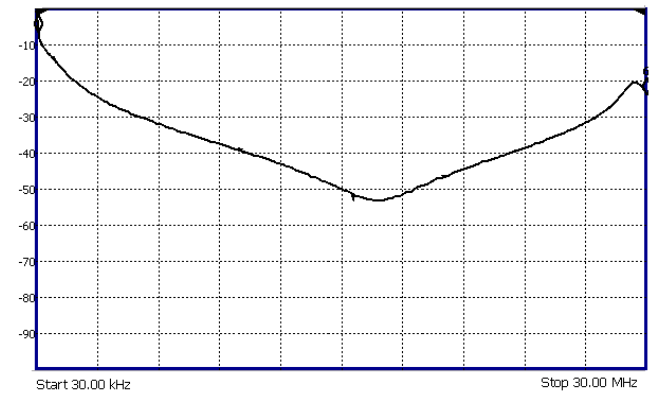
6A



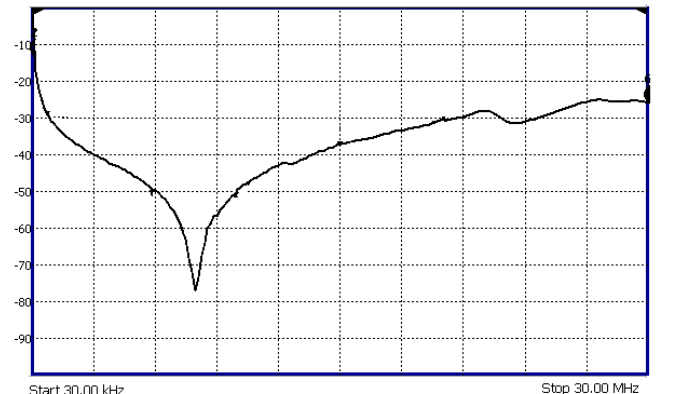
10A



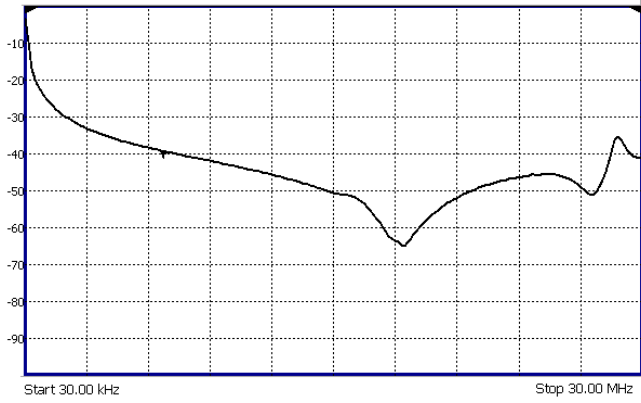
15A/16A



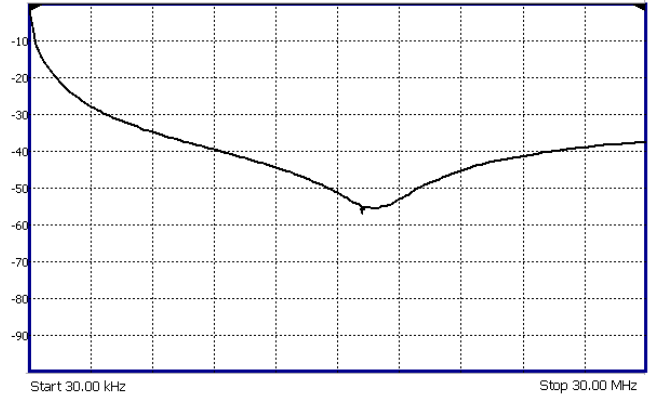
20A



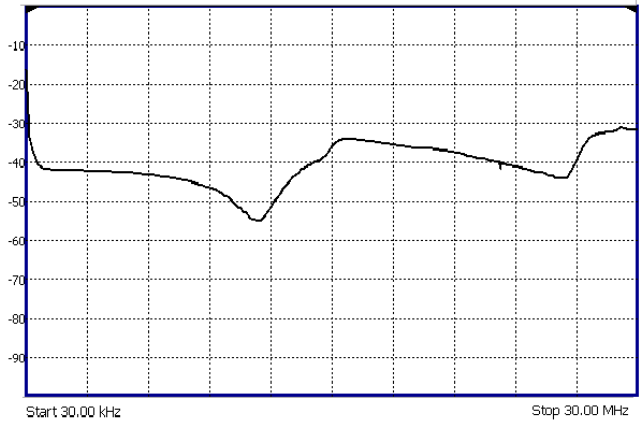
25A



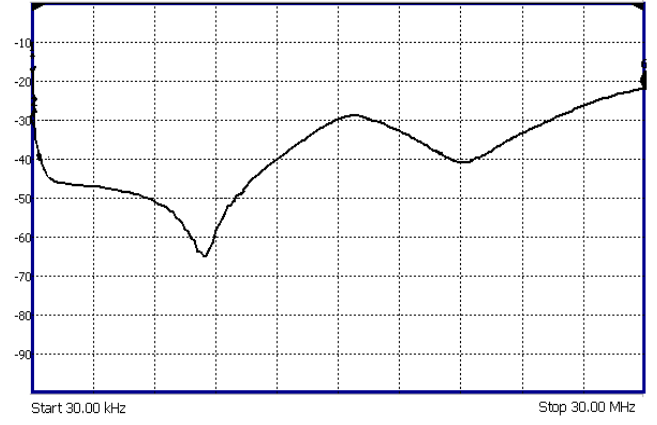
30A



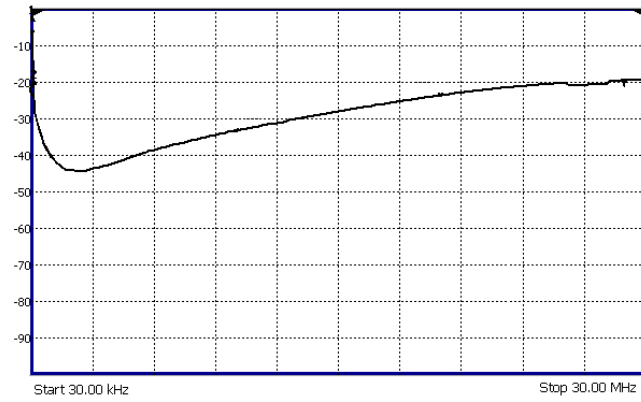
35A



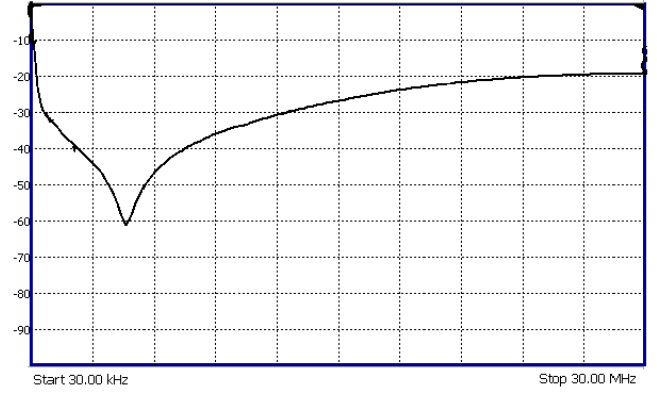
40A



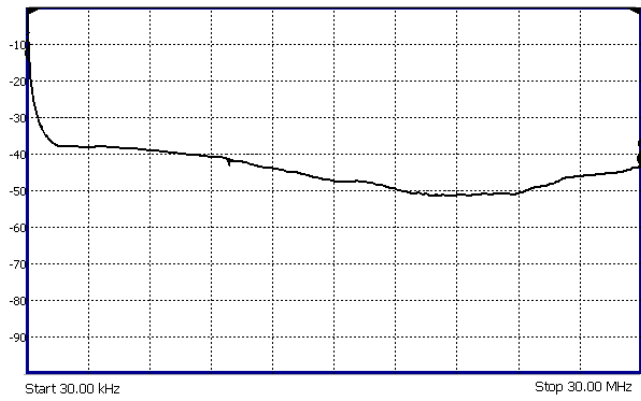
50A



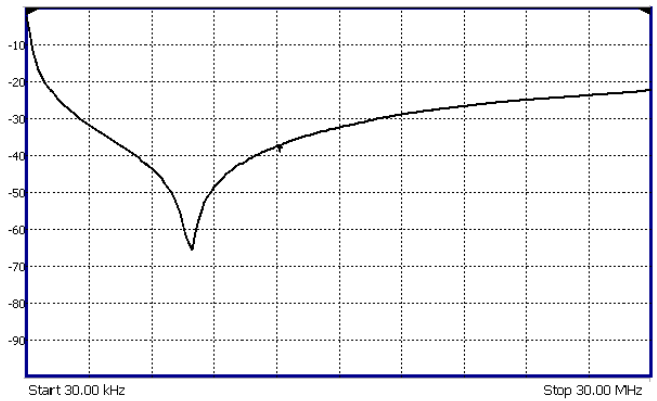
60A



75A



80A



100A

