


DATASHEET

THREE PHASE GENERAL TYPE EMI FILTER WITH NEUTRAL - MF423 4W

Description

These series range of Three Phase General Purpose filters with neutral designed to use in wide range of applications. They provide cost effective Electromagnetic interference suppression and helps in maintaining compliance with emission standards.

Technical Specifications

Maximum Continuous Operating Voltage	440/520VAC
Operating Frequency	50/60Hz
Current ratings	1A to 150A @40°C
High Potential test voltage	L to G 2660Vdc for 1 Minute L to L 1950Vdc for 1 Minute
Overload Capability	135% of Rated current for 15 minutes
Design Corresponding to	UL 60939-3, 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

Approval & Compliance



Features

General Purpose

Compact

Standard Attenuation Performance

Chassis mounting 3 Phase Filter 4 Wire

Applications

CNC Machines

Electronic Equipment

Convertors

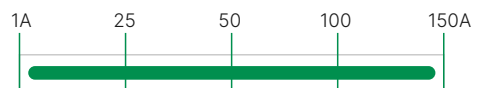
Rectifier

UPS/Inverters

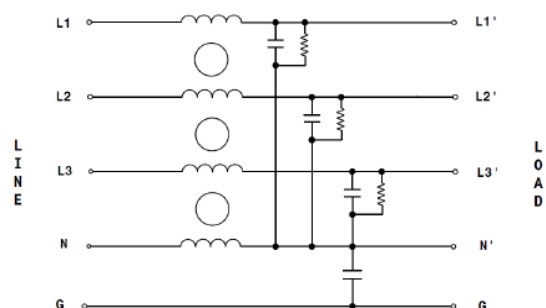
Performance Indicator

Standard	High	Very High
█		




Rated current [A]



Typical circuit Diagram

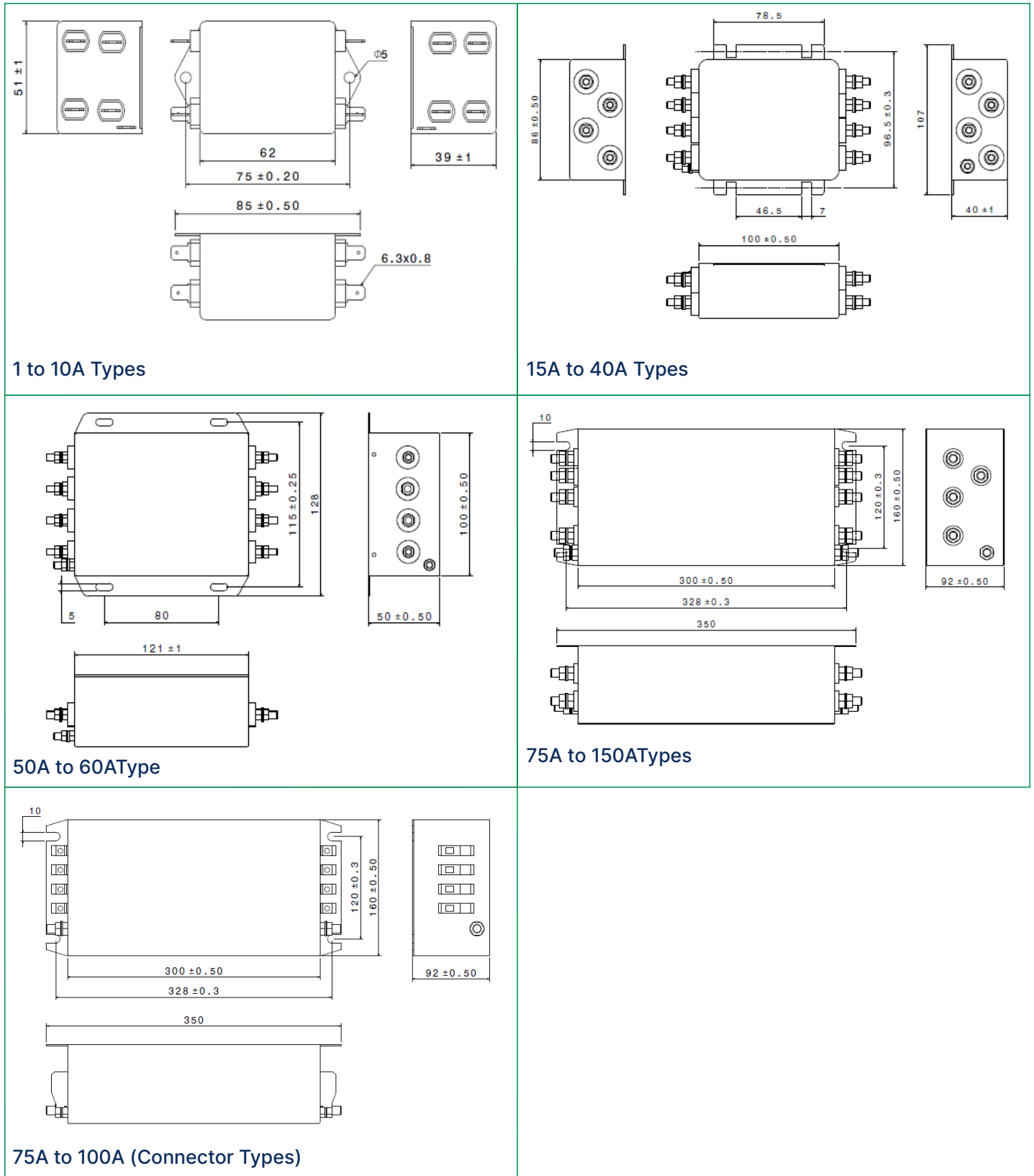


Ordering Code Information

Part Number	Ordering Code (for 440VAC)	Ordering Code (for 520VAC)	Rated Current @40°C	Termination			Weight (Kgs)
							
MF 423 4W	E100066-2	E100769-2	1A	6.3 x 0.8			0.26
MF 423 4W	E100066-3	E100769-3	3A	6.3 x 0.8			0.26
MF 423 4W	E100066-4	E100769-4	6A	6.3 x 0.8			0.26
MF 423 4W	E100066-5	E100769-5	10A	6.3 x 0.8			0.26
MF 423 4W	E100066-6	E100769-6	15A*		M5		0.7
MF 423 4W	E100066-7	E100769-7	16A*		M5		0.7
MF 423 4W	E100066-8	E100769-8	20A*		M5		0.7
MF 423 4W	E100066-9	E100769-9	25A*		M5		0.7
MF 423 4W	E100066-10	E100769-10	26A*		M5		0.7
MF 423 4W	E100066-11	E100769-11	30A*		M5		0.7
MF 423 4W	E100066-12	E100769-12	32A*		M5		0.7
MF 423 4W	E100066-13	E100769-13	40A*		M5		0.7
MF 423 4W	E100066-15	E100769-15	50A		M6		1.2
MF 423 4W	E100066-16	E100769-16	60A*		M6		1.2
MF 423 4W	E100066-17	E100769-17	75A*		M8		9
MF 423 4W	E100066-18	E100769-18	75A*			16	9
MF 423 4W	E100066-19	E100769-19	80A*		M8		9
MF 423 4W	E100066-20	E100769-20	80A*			25	9
MF 423 4W	E100066-21	E100769-21	100A*		M10		9
MF 423 4W	E100066-22	E100769-22	100A*			25	9
MF 423 4W	E100066-23	E100769-23	125A*		M10	M10	9
MF 423 4W	E100066-24	E100769-24	150A*		M10	M10	9

Note: * not covered under NEMKO
Filters with 520VAC are not covered under NEMKO

Mechanical Drawing




All dimensions in mm; Tolerances according to ISO2768-m

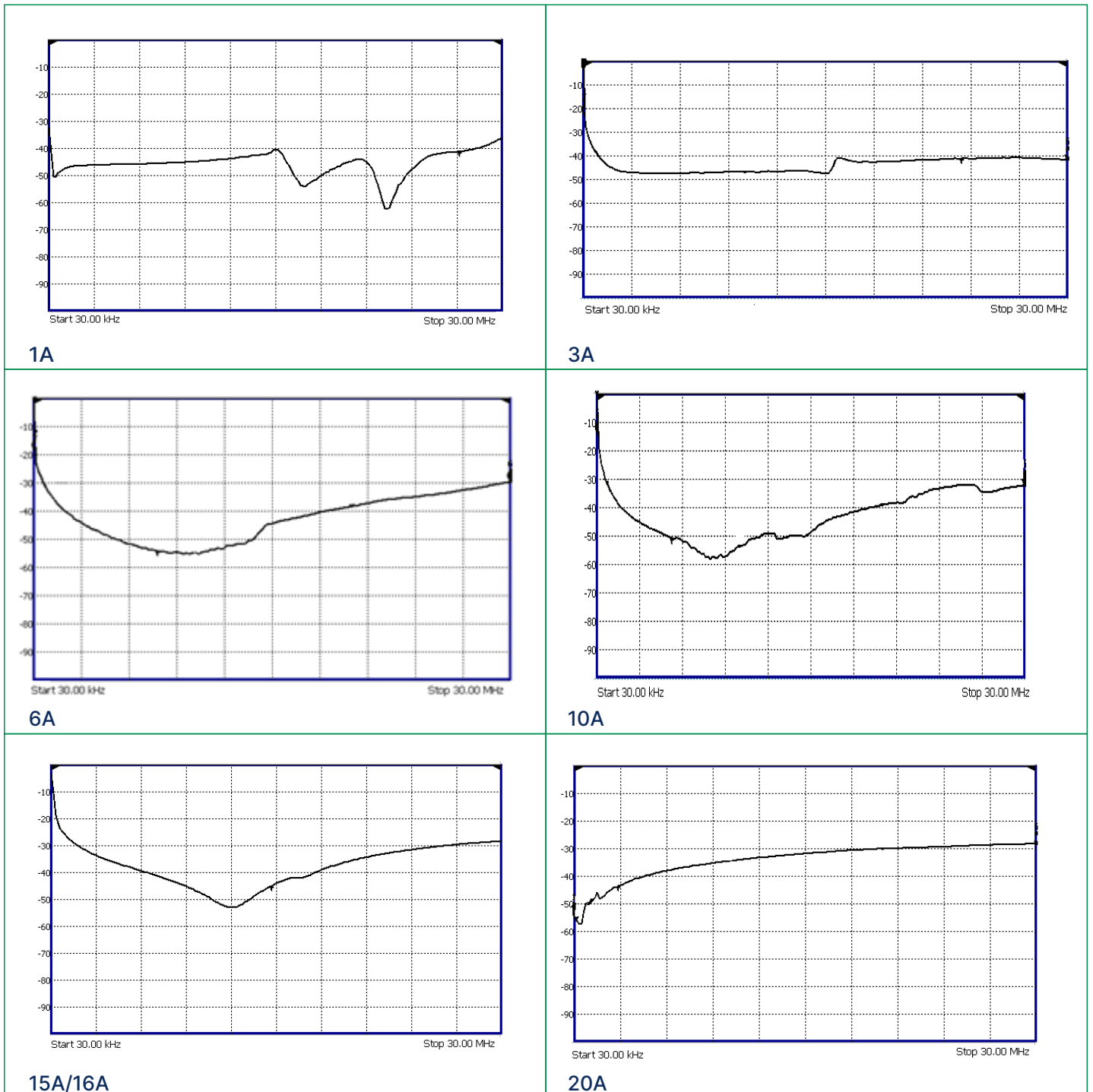
For Screw type Connections

Thread Size	M5	M6	M8	M10
Recommended Torque (Nm)	2	2.5-3	3.5-6	4-10

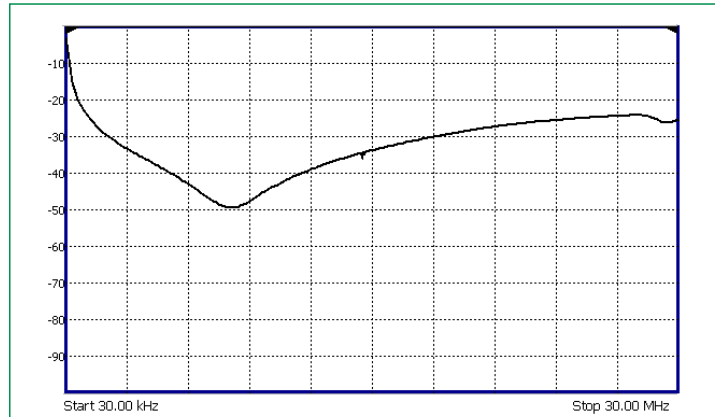
Connector Cross Sections

	16	25
		
Wire Section (mm ²)	16 mm ²	25 mm ²
Wire Section (AWG)	6 AWG	4 AWG
Wire Stripping	max 17 mm	max 17 mm
Max Recommended Torque	2±2.2 Nm / 18±19.8 in.lbs	2 Nm / 18 in.lbs

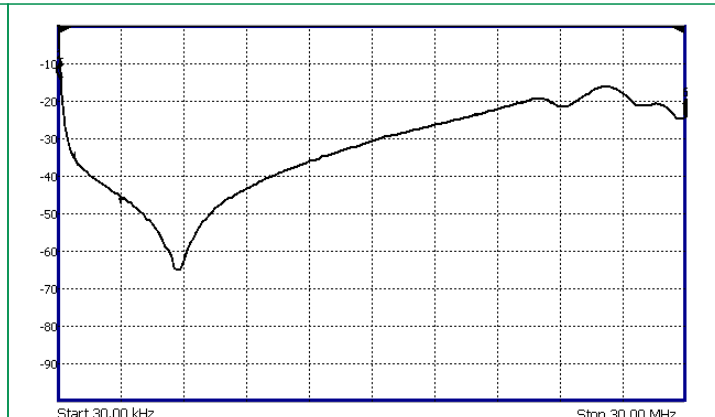
Insertion Loss – (Common Mode)



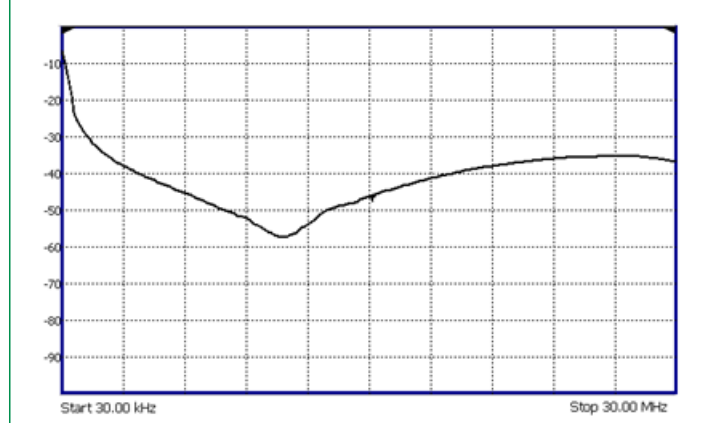
Insertion Loss – (Common Mode)



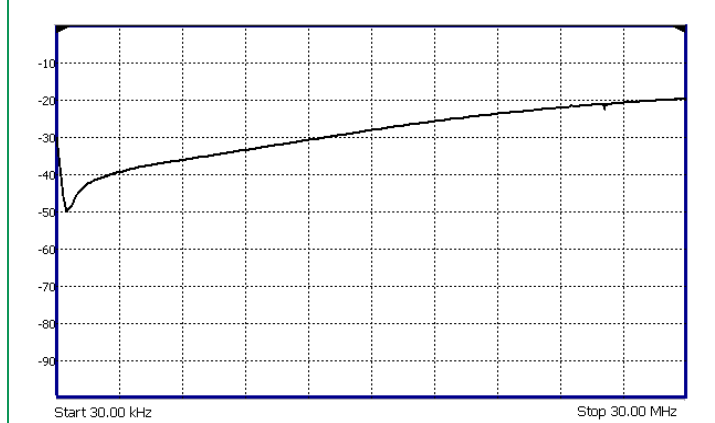
25A/26A



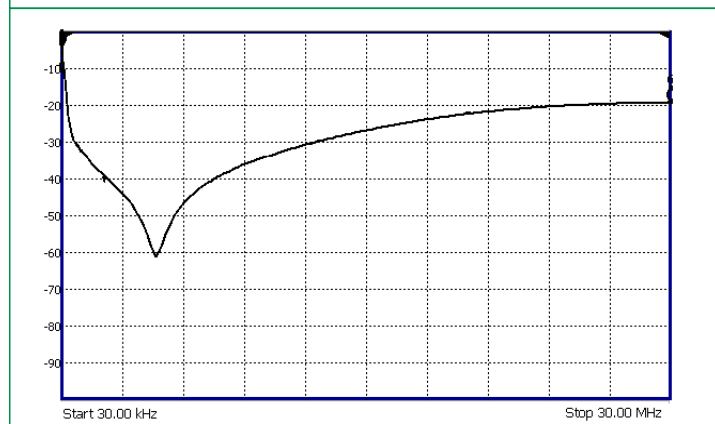
30A/32A



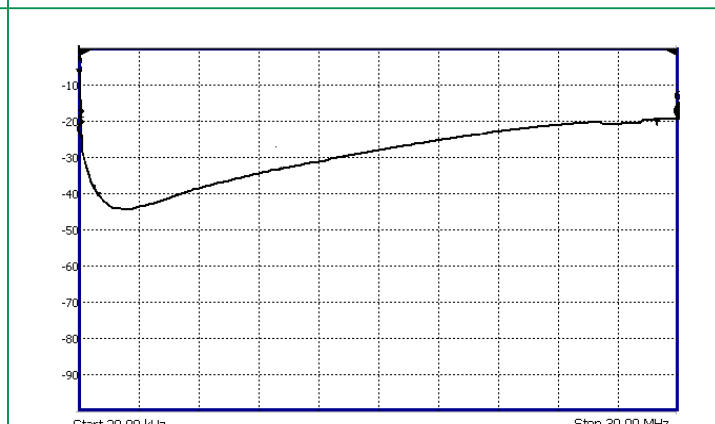
40A



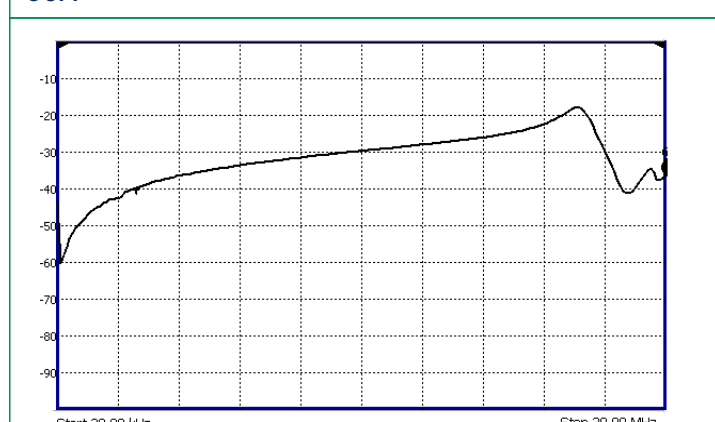
50A



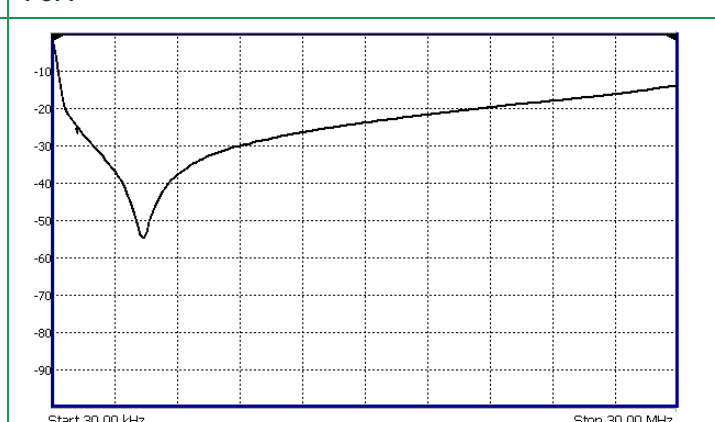
60A



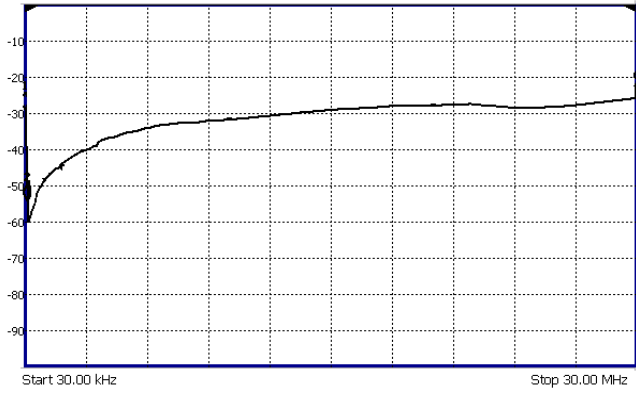
75A



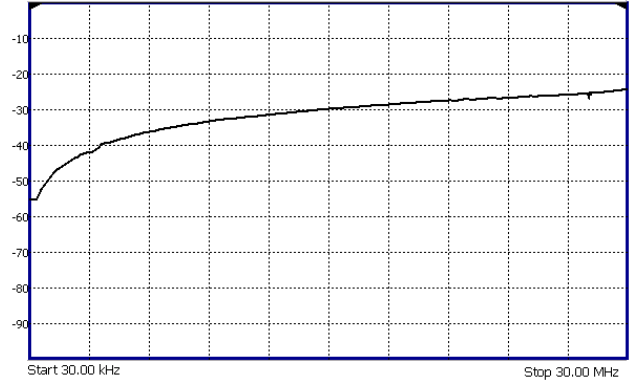
80A



100A



125A



150A