
DATASHEET

SINGLE PHASE EMI FILTER – MF420

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.

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 60939-9
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

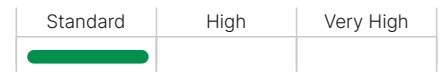
Approval & Compliance

Features

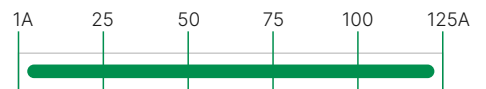
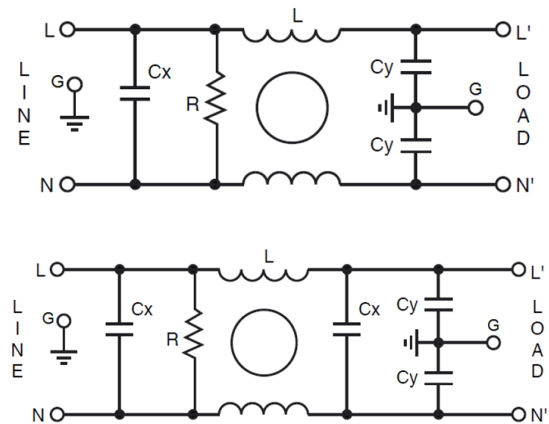
- Rated Current up to 125A
- Medical Version available
- High Conducted attenuation performance
- Chassis mounting

Applications

- Power Systems
- Electronic Equipment
- Frequency converters
- Stepper motor drives
- UPS/Inverters



Performance Indicator


Rated current [A]


Typical circuit Diagram


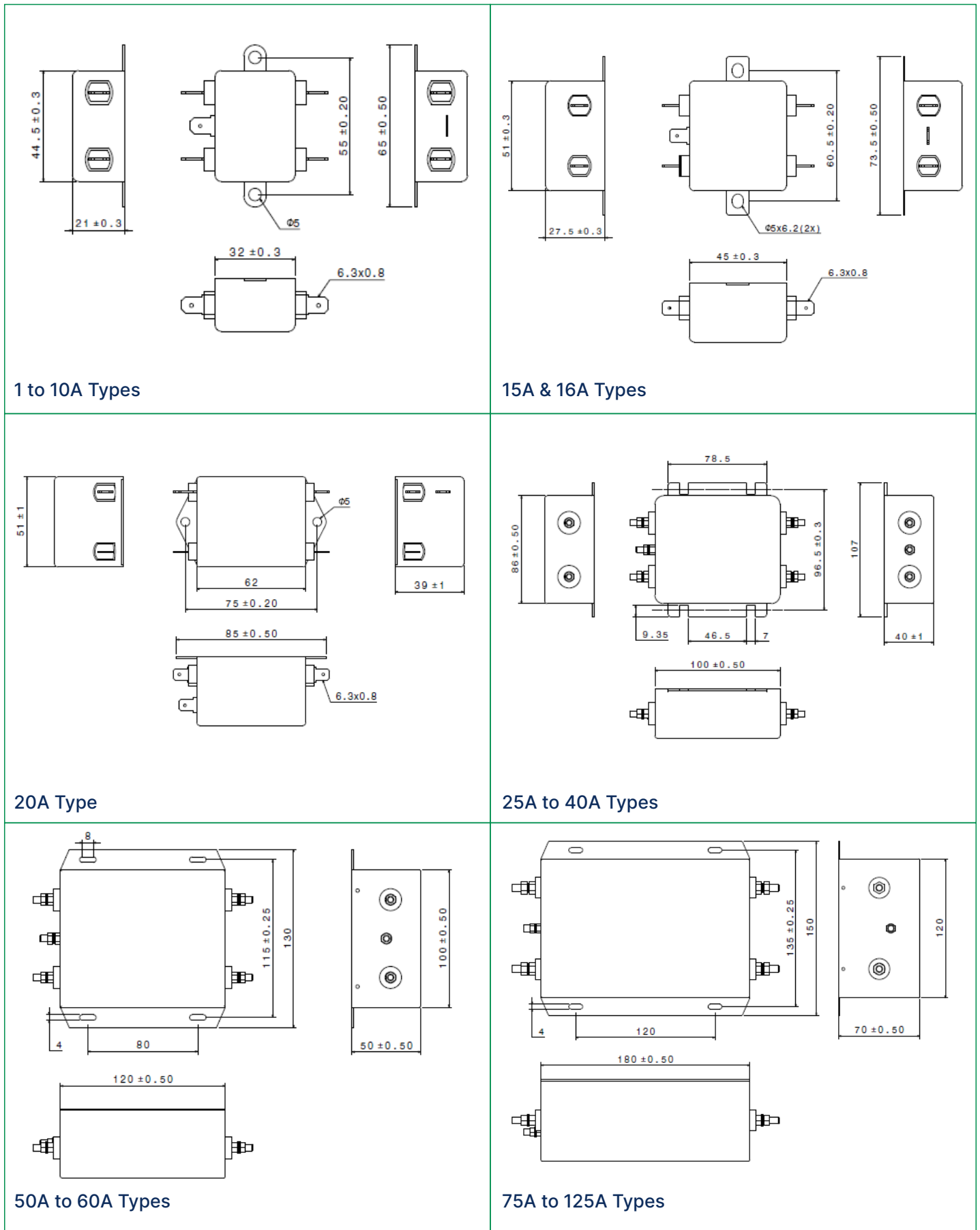
For 20A & above

Ordering Code Information

Part Number	Ordering Code	Rated Current @40°C	Leakage Current @250VAC/50Hz (mA)	Termination		Weight (Kgs)
						
MF420	E100036-2	1A	0.34	6.3 x 0.8		0.06
MF420	E100036-3	2A*	0.34	6.3 x 0.8		0.06
MF420	E100036-4	3A	0.34	6.3 x 0.8		0.06
MF420	E100036-5	6A	0.34	6.3 x 0.8		0.06
MF420	E100036-6	10A	0.34	6.3 x 0.8		0.06
MF420	E100036-7	15A	0.34	6.3 x 0.8		0.125
MF420	E100036-8	16A*	0.34	6.3 x 0.8		0.125
MF420	E100036-9	20A	0.34	6.3 x 0.8		0.260
MF420	E100036-10	25A*	0.73		M5	0.6
MF420	E100036-11	30A	0.73		M5	0.6
MF420	E100036-12	35A*	0.73		M5	0.6
MF420	E100036-13	40A	0.73		M5	0.6
MF420	E100036-14	50A	0.73		M6	1
MF420	E100036-15	60A*	0.73		M6	1
MF420	E100036-16	75A*	0.73		M8	2
MF420	E100036-17	80A*	0.73		M8	2
MF420	E100036-18	100A*	0.73		M10	2
MF420	E100036-19	125A*	0.73		M10	3

Note: * Not covered under NEMKO

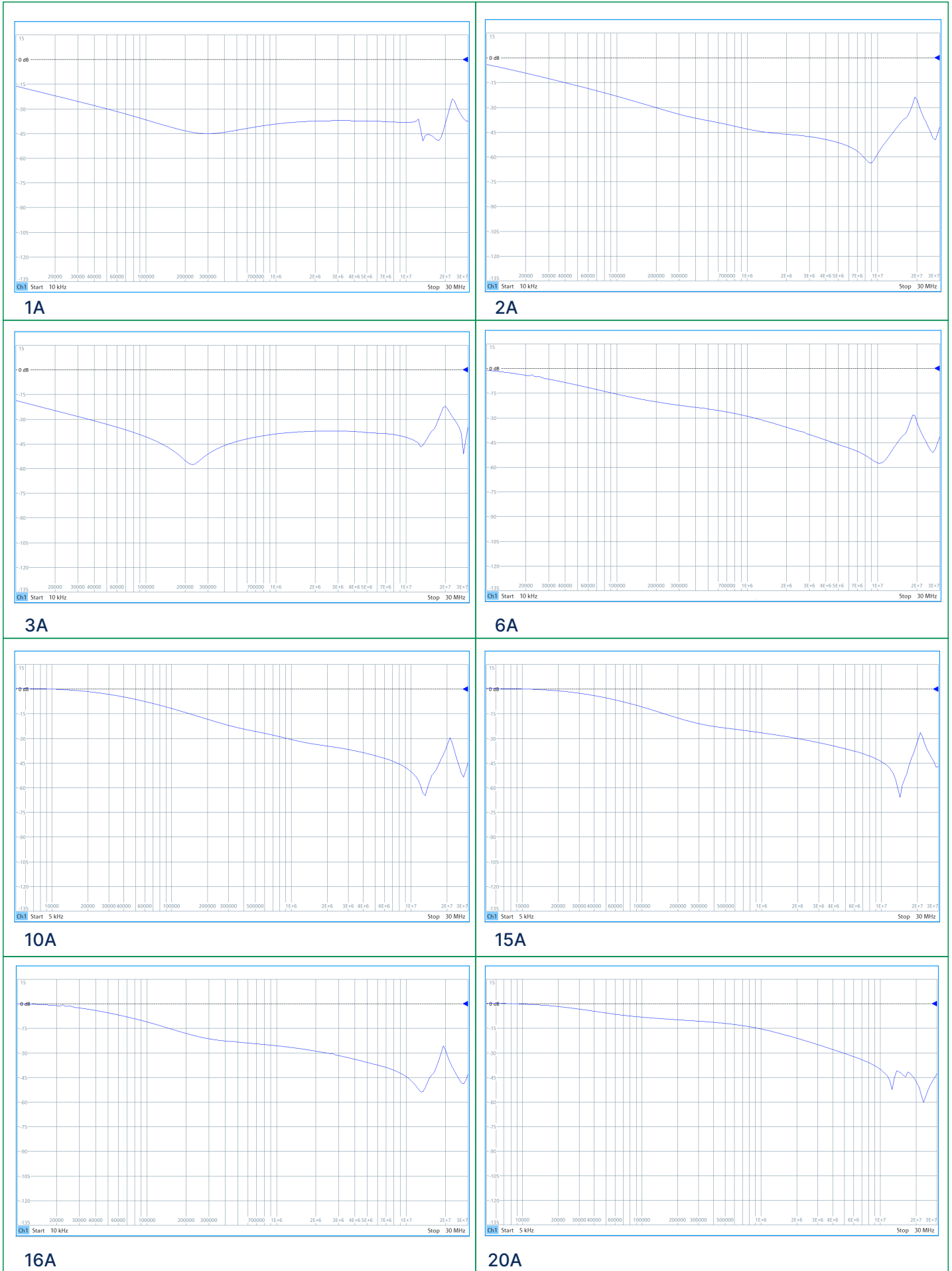
Mechanical Drawing

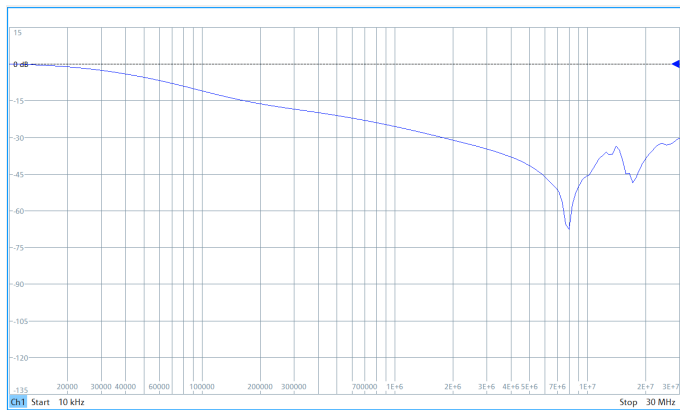


Thread Size	M5	M6	M8	M10
Recommended Torque (Nm)	2 - 3	3.5 - 4	10 - 14	15 - 17

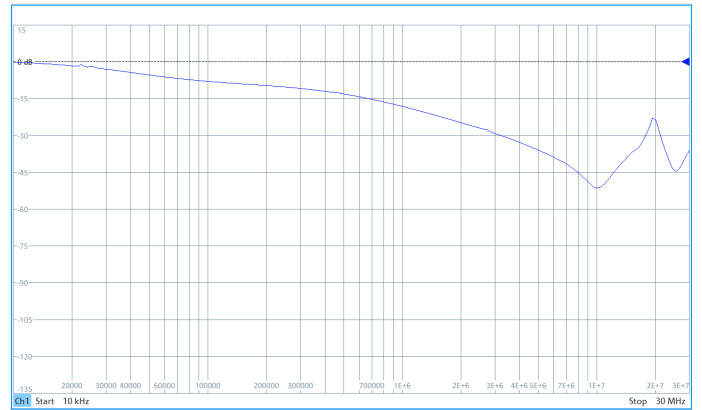
Note: All dimensions in mm; Tolerances according to ISO2768-m

Insertion Loss – (Common Mode)

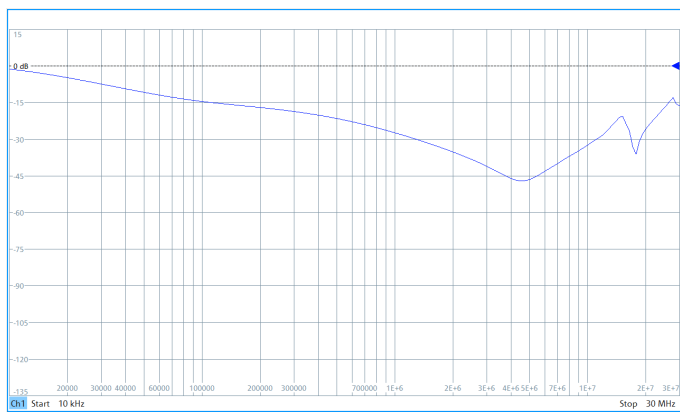




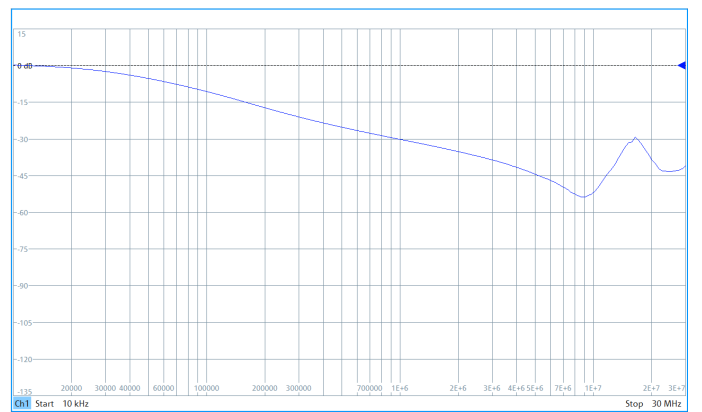
25A



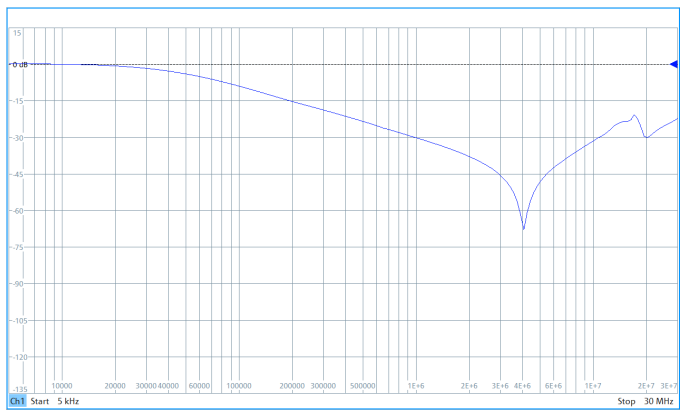
30A



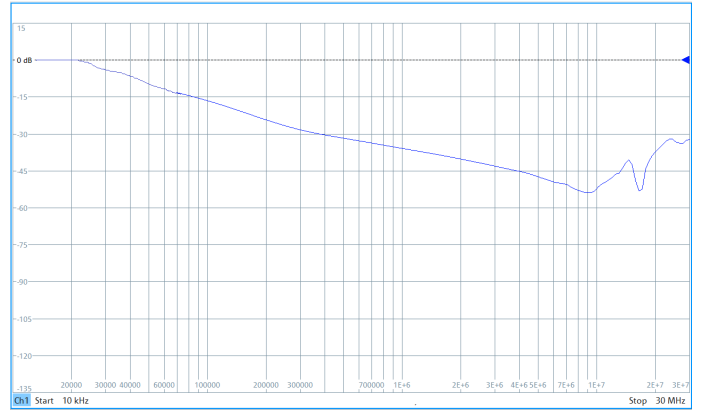
35A



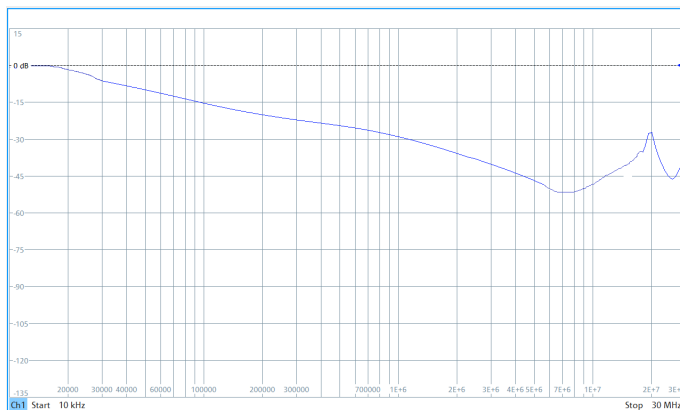
40A



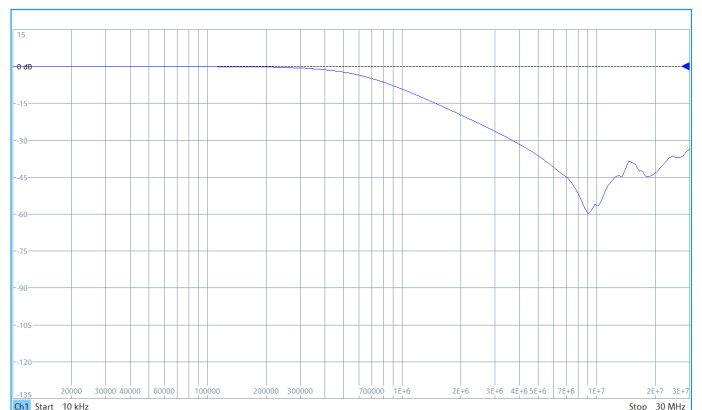
50A



60A



75A



80A



Insertion Loss – (Differential Mode)

