



DATASHEET

SINGLE PHASE EMI FILTER – MF420HP HIGH PERFORMANCE TYPE

Description

These series range of High Performance 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 50A @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 25A Aluminium – 30A to 50A

Approval & Compliance



Features

- Rated Current up to 50A
- Medical Version available
- High Conducted attenuation performance
- Chassis mounting

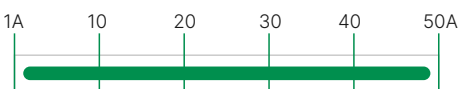
Applications

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

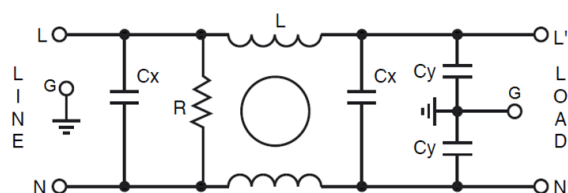
Performance Indicator

Standard	High	Very High



Rated current [A]



Typical circuit Diagram

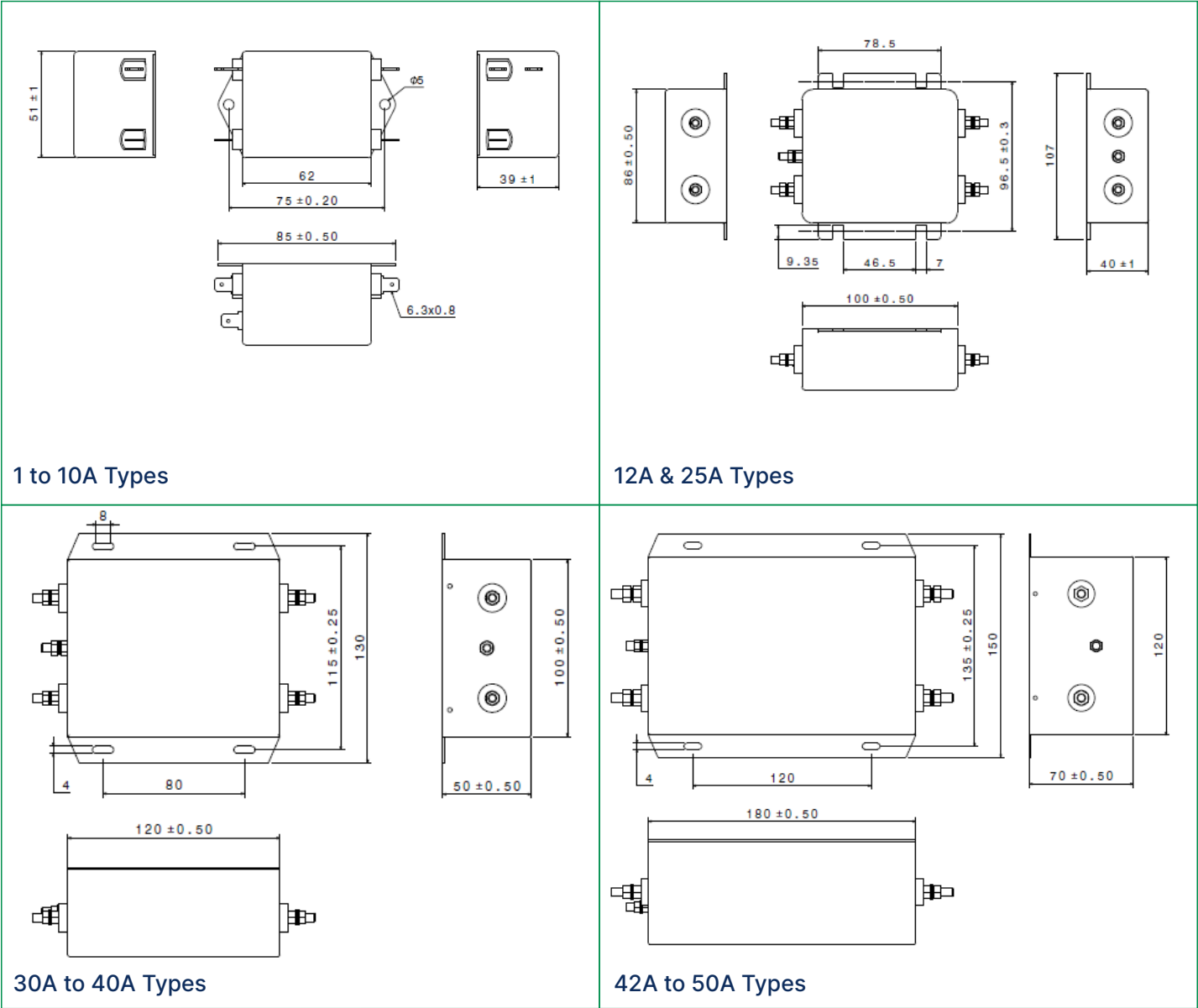


Ordering Code Information

Part Number	Ordering Code	Rated Current @40°C	Leakage Current @250VAC/50Hz (mA)	Termination		Weight (Kgs)
						
MF 420-HP	E100843-2	1A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-3	2A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-4	3A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-5	5A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-6	6A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-7	10A	0.74	6.3x0.8		0.260
MF 420-HP	E100843-8	12A	0.74		M5	0.5
MF 420-HP	E100843-9	15A	0.74		M5	0.5
MF 420-HP	E100843-10	16A	0.74		M5	0.5
MF 420-HP	E100843-11	18A	0.74		M5	0.5
MF 420-HP	E100843-12	20A	0.74		M5	0.5
MF 420-HP	E100843-13	25A	0.74		M5	0.5
MF 420-HP	E100843-14	30A	0.74		M5	1
MF 420-HP	E100843-15	32A	0.74		M5	1
MF 420-HP	E100843-16	35A	0.74		M5	1
MF 420-HP	E100843-17	40A	0.74		M5	1
MF 420-HP	E100843-18	42A	0.74		M6	3
MF 420-HP	E100843-19	45A	0.74		M6	3
MF 420-HP	E100843-20	47A	0.74		M6	3
MF 420-HP	E100843-21	50A	0.74		M6	3

Note: Customized filters are provided on request.

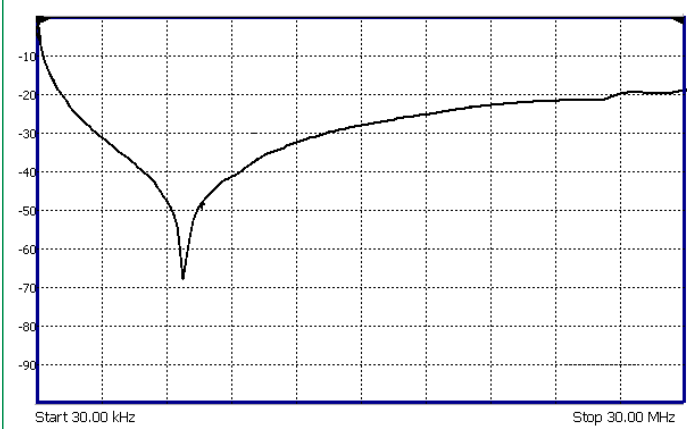
Mechanical Drawing



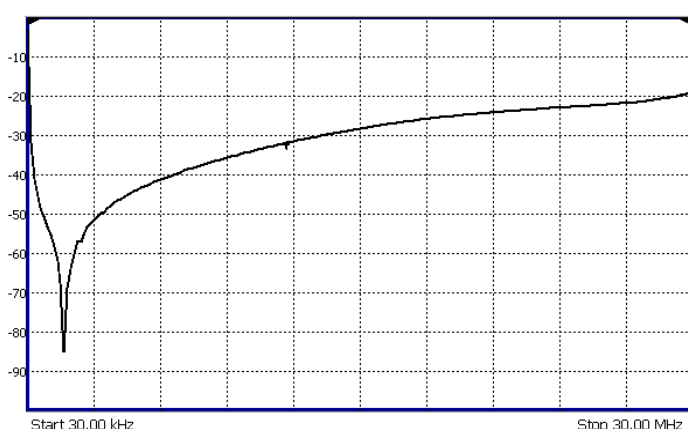
Thread Size	M5	M6
Recommended Torque (Nm)	2	2.5 - 3

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

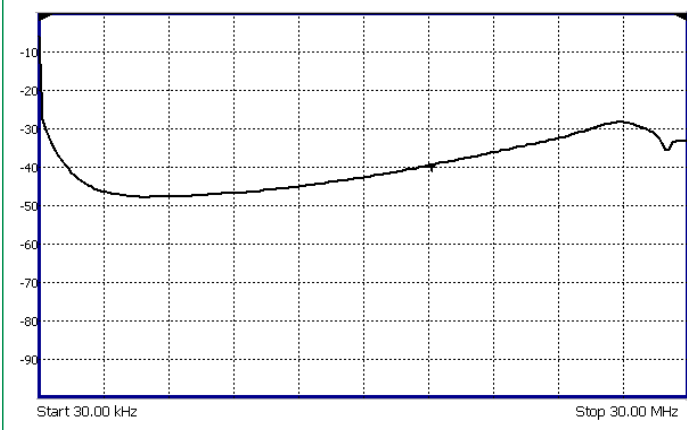
Insertion Loss – (Common Mode)



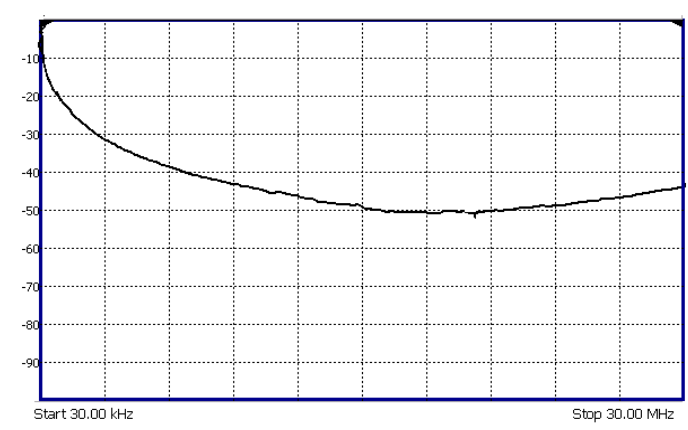
1A



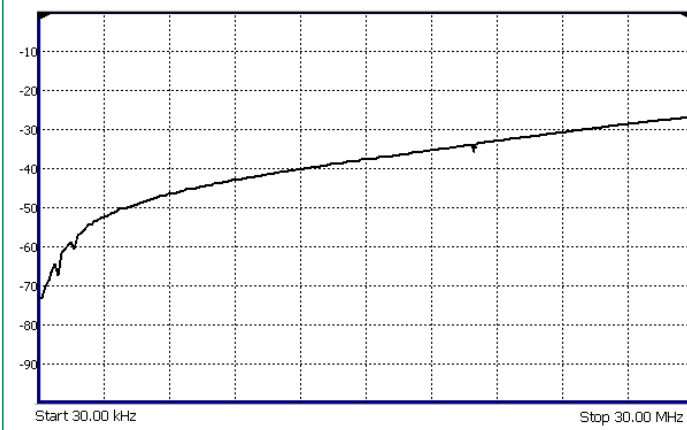
2A/3A



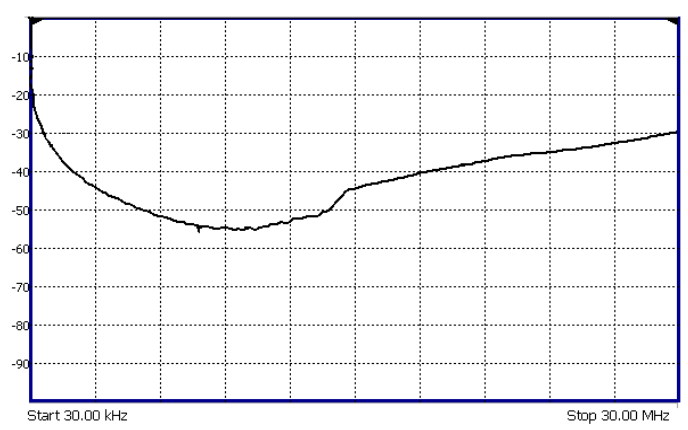
5A/6A



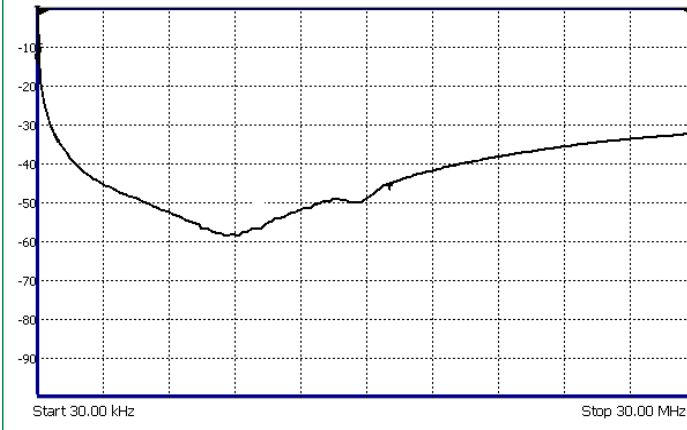
10A



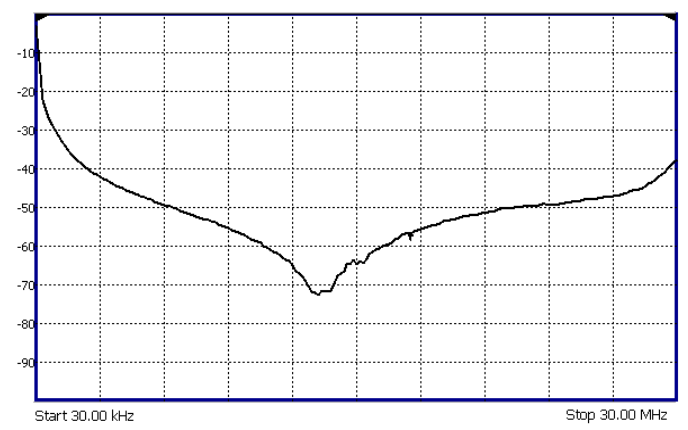
12A



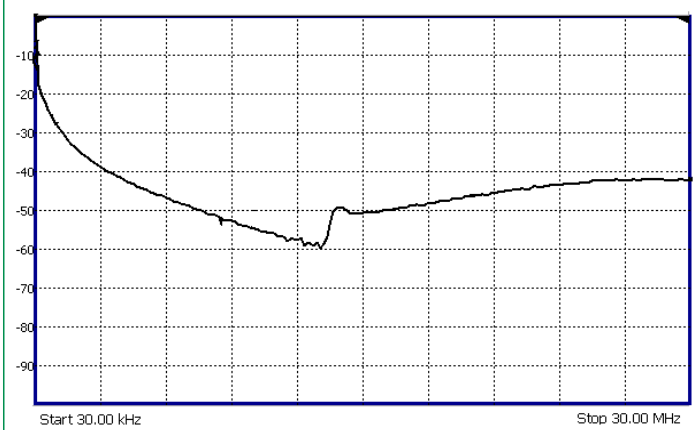
15A/16A



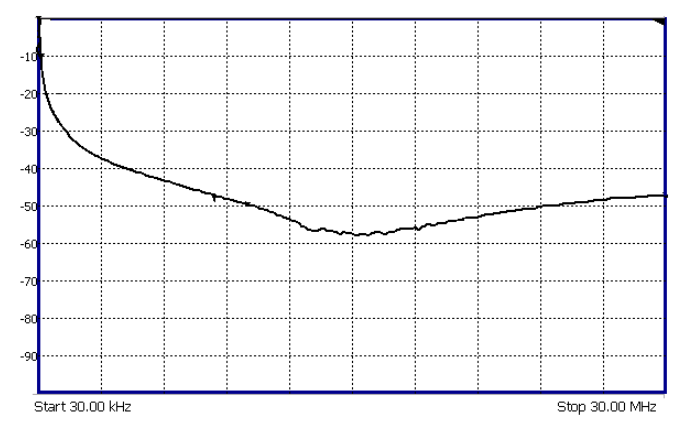
18A



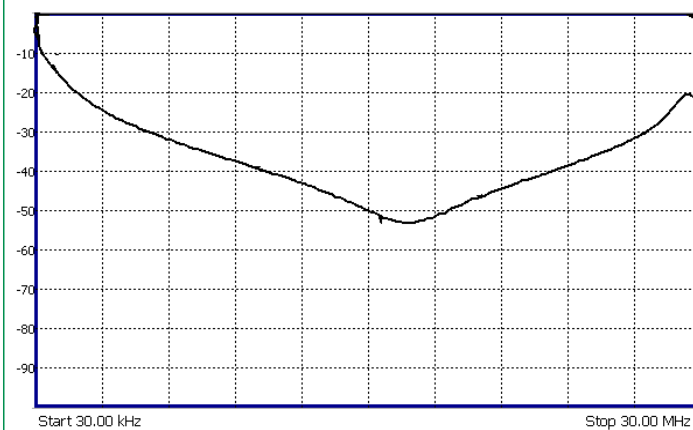
20A



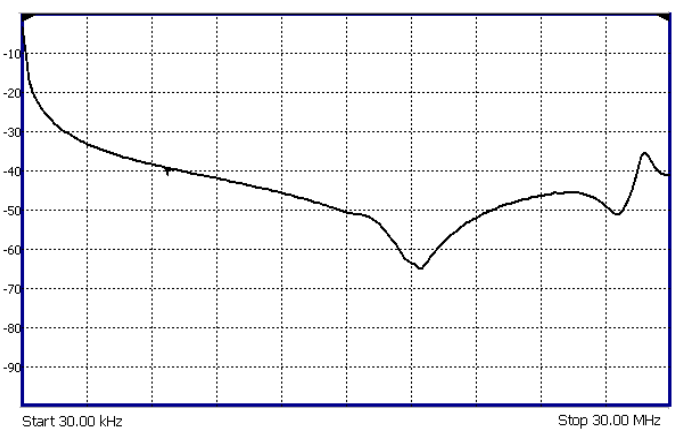
25A



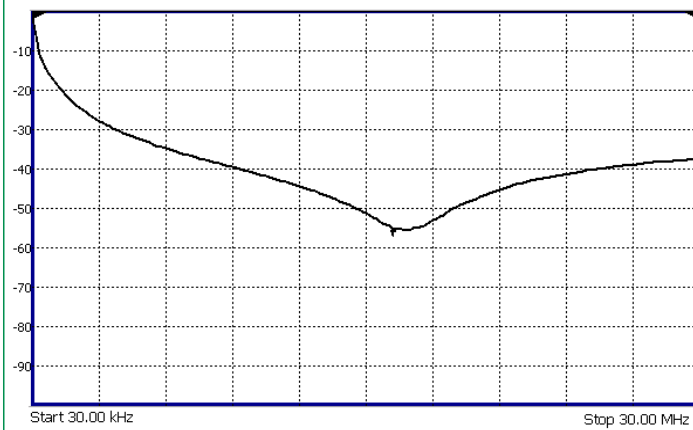
30/32A



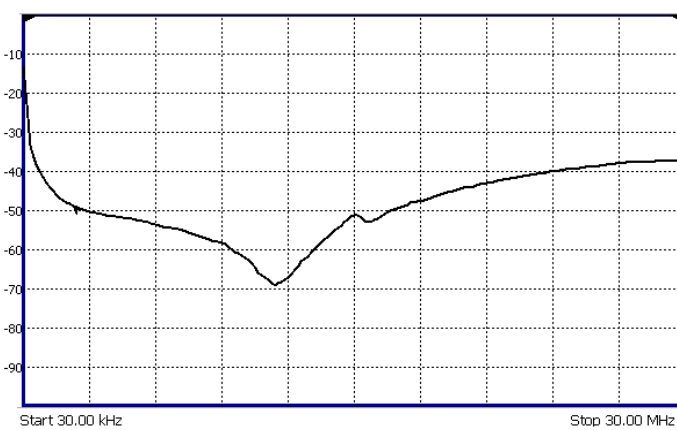
35A



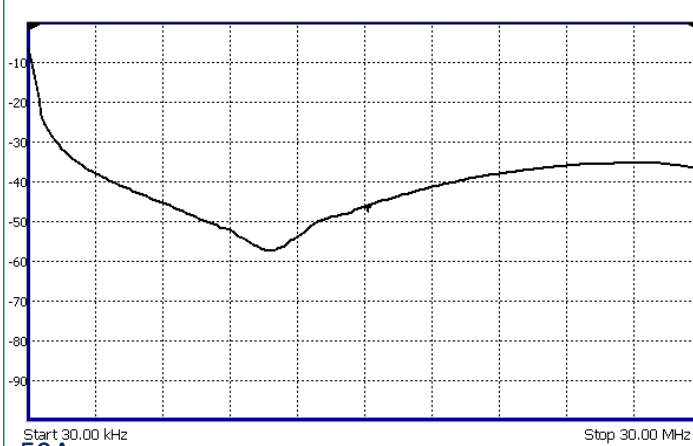
40A



42A



45/47A



50A