

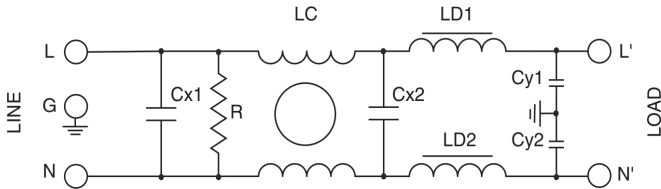
Features

- Double stage filter
- Rated up to 60A
- High Differential Mode Attenuation
- Medical “B” versions with ultra-low leakage

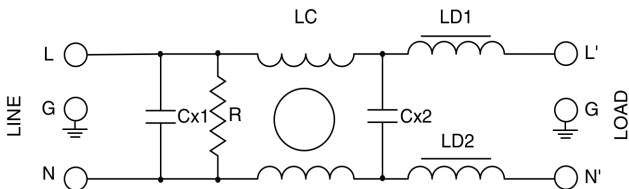
Applications

- Power Systems
- Electronic Equipment
- Frequency convertors
- Medical Equipment

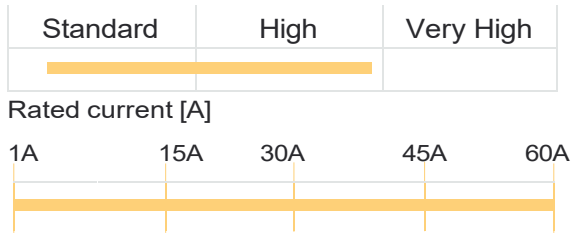
Typical Circuit Diagram



Typical Circuit Diagram (Medical Version)



Performance Indicator





Approvals & Compliances





Technical Specifications

Maximum Continuous Operating Voltage	250VAC, 50/60Hz(UL Approval) 250VDC
Operating Frequency	DC to 400Hz
Current ratings	1A to 60A @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	UL 60939-3, UL1283, CSA 22.2 No.8-13 and IEC 60939 1 & 2
Flammability corresponding to	UL 94 V-0
Temperature range	-25°C to +85°C
Climatic Category	25/85/21

Selection Table/Standard Version

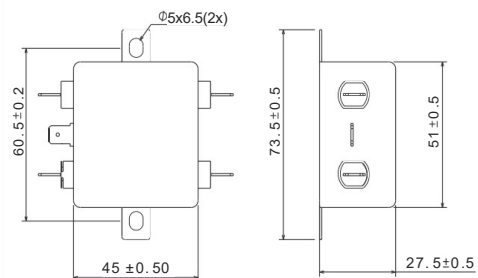
Available Part Number	Rated Current @40°C	Leakage Current (mA) @250VAC	Termination		Weight (Grams)
					
AMI-1680-1-1	1A	0.34	6.3 x 0.8		120
AMI-1680-2-1	2A	0.34	6.3 x 0.8		120
AMI-1680-3-1	3A	0.34	6.3 x 0.8		170
AMI-1680-6-1	6A	0.34	6.3 x 0.8		170
AMI-1680-10-1	10A	0.34	6.3 x 0.8		170
AMI-1680-12-M5	12A*	0.34		M5	650
AMI-1680-15-M5	15A	0.34		M5	650
AMI-1680-20-M5	20A	0.74		M5	650
AMI-1680-25-M5	25A	0.74		M5	650
AMI-1680-30-M5	30A	0.74		M5	650
AMI-1680-40-M5	40A	0.74		M5	1000
AMI-1680-50-M6	50A	0.74		M6	2000
AMI-1680-60-M6	60A*	0.74		M6	2000

Selection Table/Medical Version

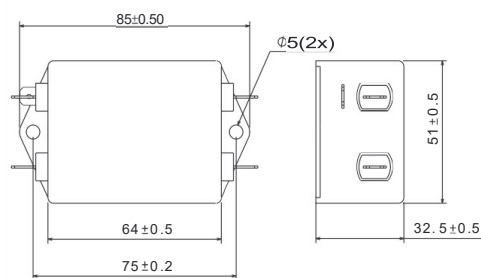
Available Part Number	Rated Current @40°C	Leakage Current @250VAC/50Hz (µA)	Termination		Weight (Grams)
					
AMI-1680B-1-1	1A	<5	6.3 x 0.8		120
AMI-1680B-2-1	2A	<5	6.3 x 0.8		120
AMI-1680B-3-1	3A	<5	6.3 x 0.8		170
AMI-1680B-6-1	6A	<5	6.3 x 0.8		170
AMI-1680B-10-1	10A	<5	6.3 x 0.8		170
AMI-1680B-12-M5	12A	<5		M5	650
AMI-1680B-15-M5	15A	<5		M5	650
AMI-1680B-20-M5	20A	<5		M5	650
AMI-1680B-25-M5	25A	<5		M5	650
AMI-1680B-30-M5	30A	<5		M5	650
AMI-1680B-40-M5	40A	<5		M5	1000
AMI-1680B-50-M6	50A	<5		M6	2000
AMI-1680B-60-M6	60A	<5		M6	2000

Mechanical Drawing

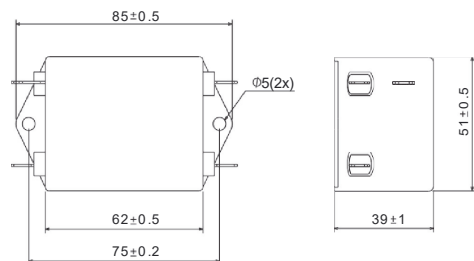
1A to 2A



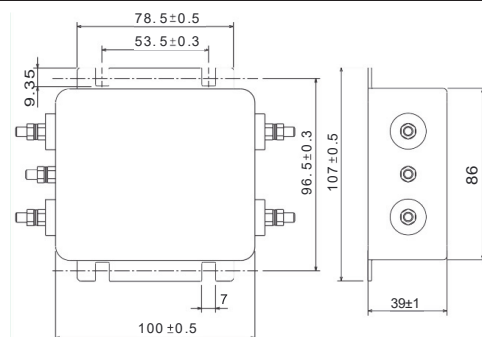
3A to 6A



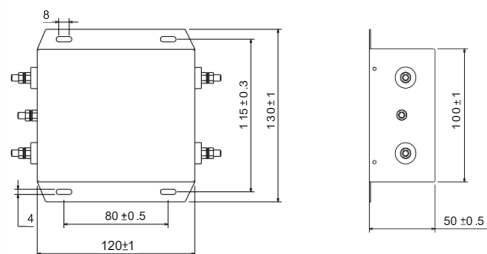
10A



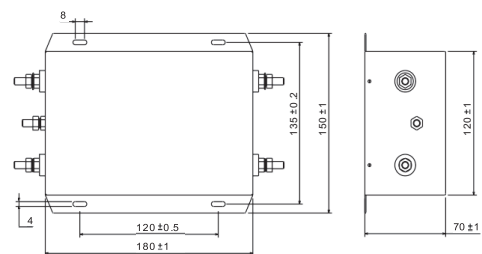
12A to 20A



30A to 40A



50A to 60A



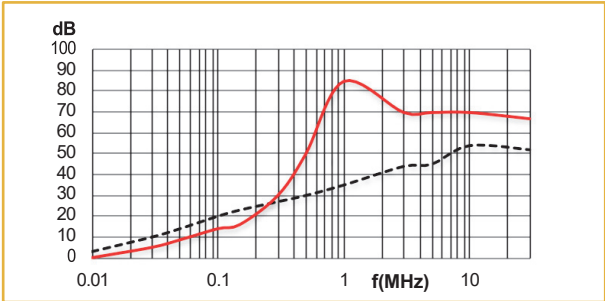
Thread Size	M5	M6
Recommended Torque (Nm)	2-2.2	3.5-4
Earth Terminal (Nm)	2-2.2	3.5-4

Typical Insertion Loss

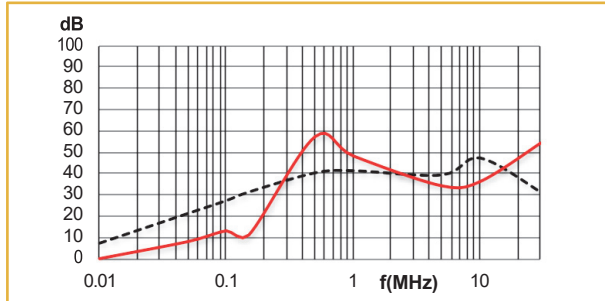
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)
 — Differential Mode / Symmetrical (L-L)

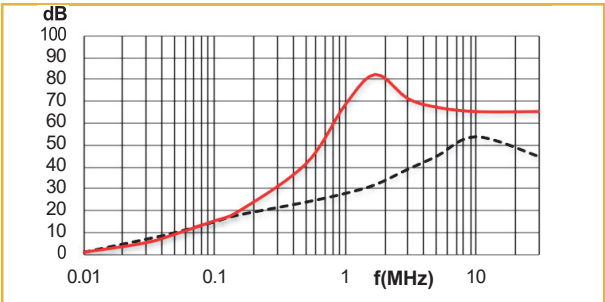
1A/2A



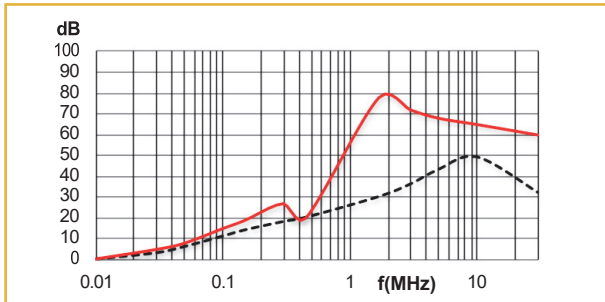
3A



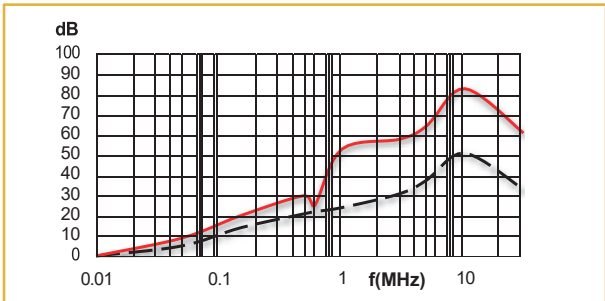
6A



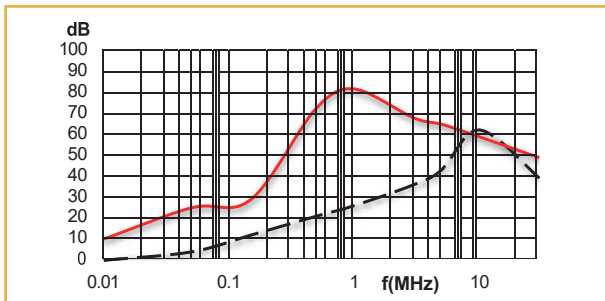
10A



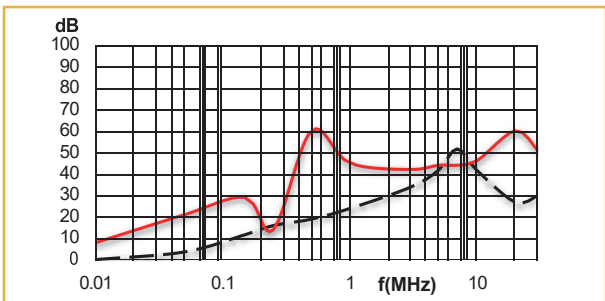
15A



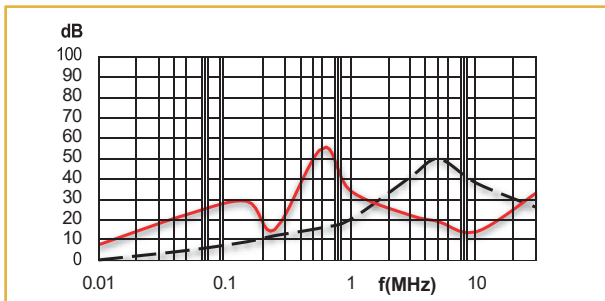
20A



25A



30A

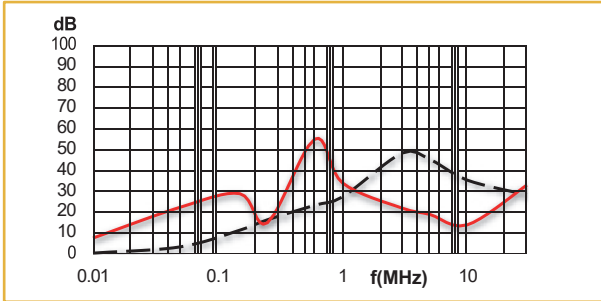


Typical Insertion Loss

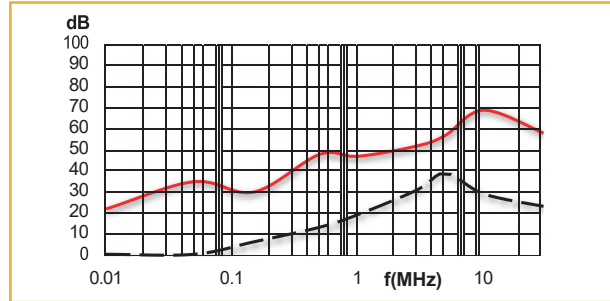
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)
 — Differential Mode / Symmetrical (L-L)

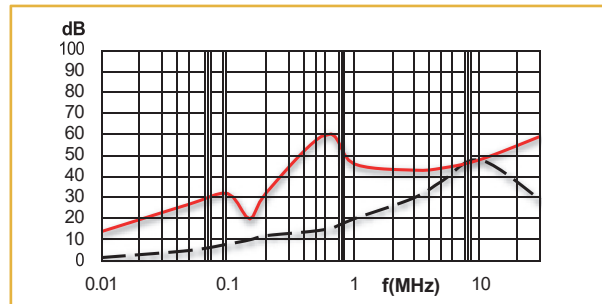
40A



50A



60A



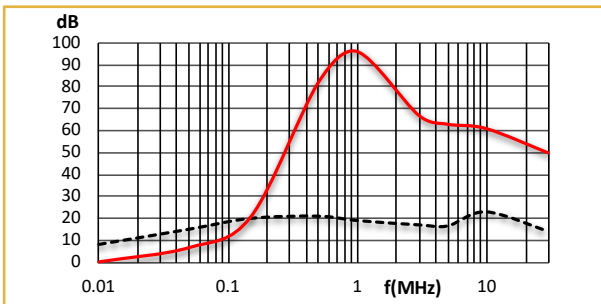
Typical Insertion Loss

(Medical Version)

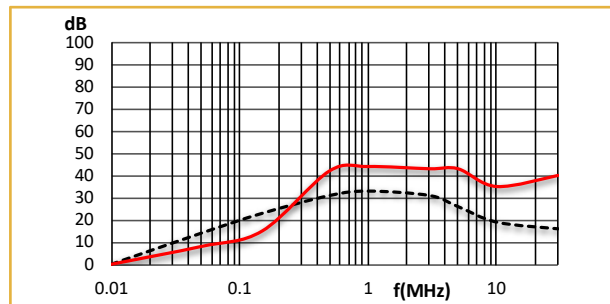
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)
 — Differential Mode / Symmetrical (L-L)

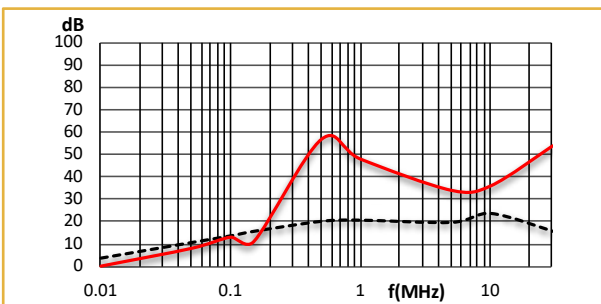
1A



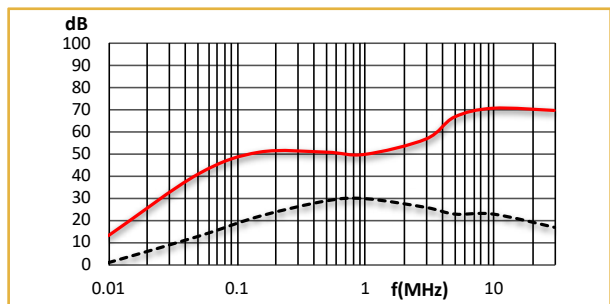
2A



3A



6A

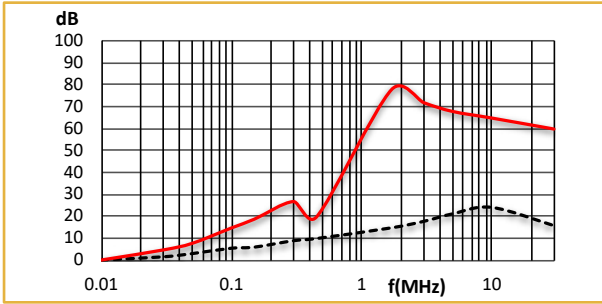


Typical Insertion Loss (Medical Version)

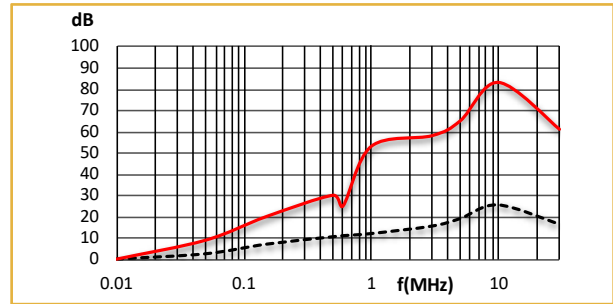
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

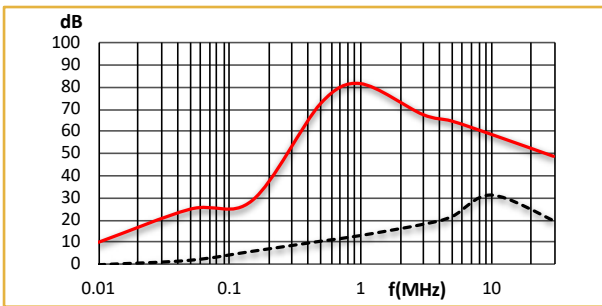
10A



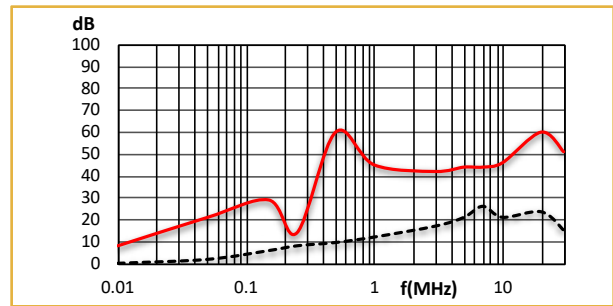
15A



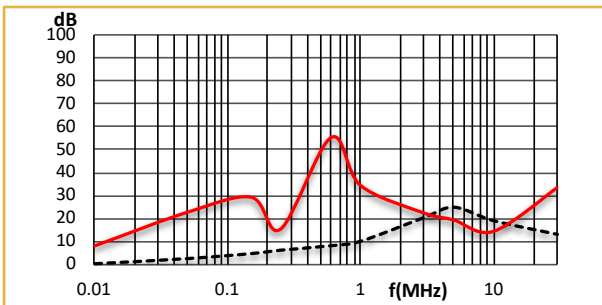
20A



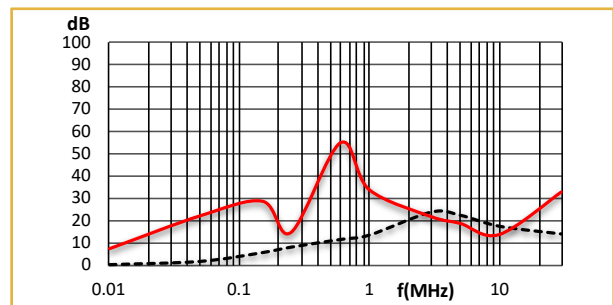
25A



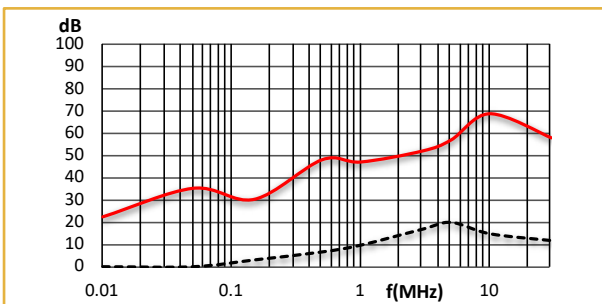
30A



40A



50A



60A

