

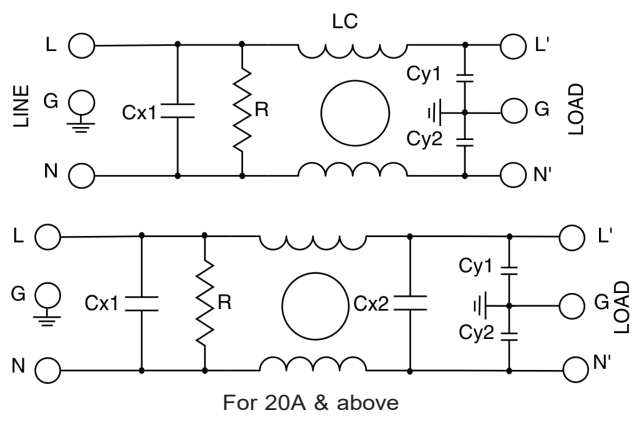
### Features

- Standard Performance
- Rated up to 125A
- Chassis mounting
- Medical “B” versions with ultra-low leakage

### Applications

- Power Systems
- Electronic Equipment’s
- Stepper motor drives
- Medical Equipment

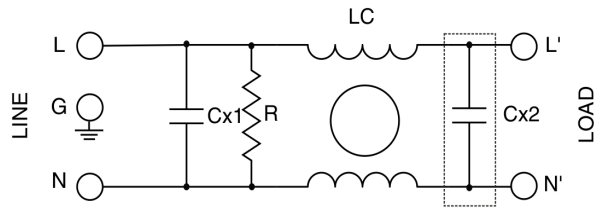
### Typical Circuit Diagram



### Approvals & Compliances

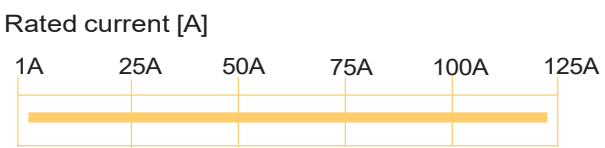
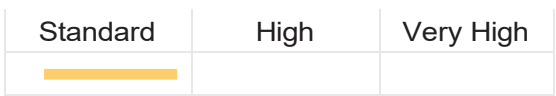


### Typical Circuit Diagram (Medical Version)



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



### Performance Indicator





### Technical Specifications

Maximum Continuous Operating Voltage	250VAC, 50/60Hz(UL Approval) 250VDC
Operating Frequency	DC to 400Hz
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	UL 60939-3, CSA 22.2 No.8-13 and IEC60939-1&2
Flammability corresponding to	UL 94 V-0
Temperature range	-25°C to +85°C
Climatic Category	25/85/21

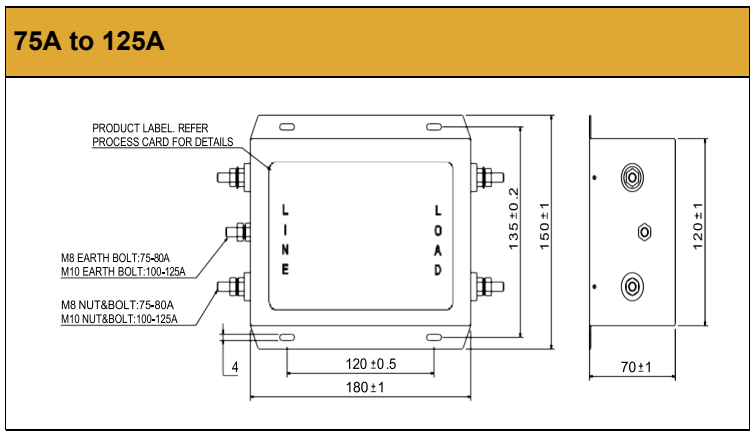
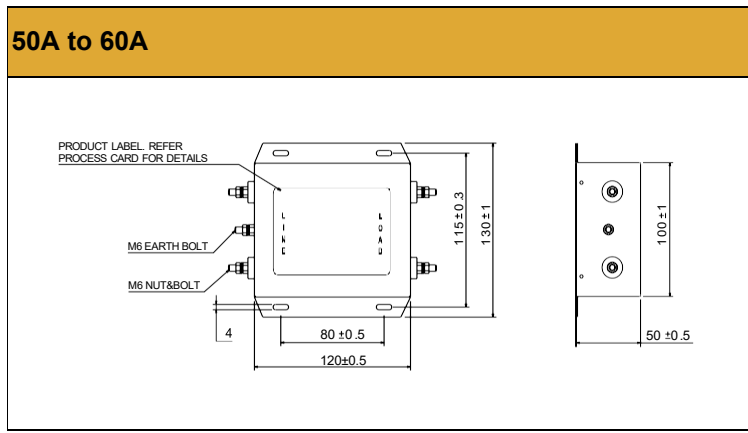
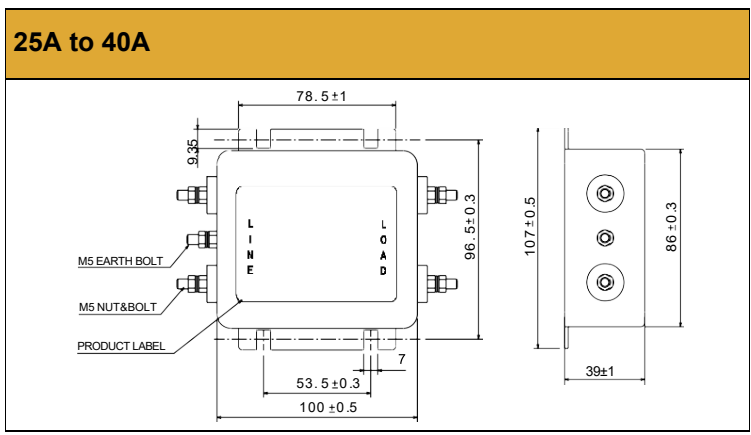
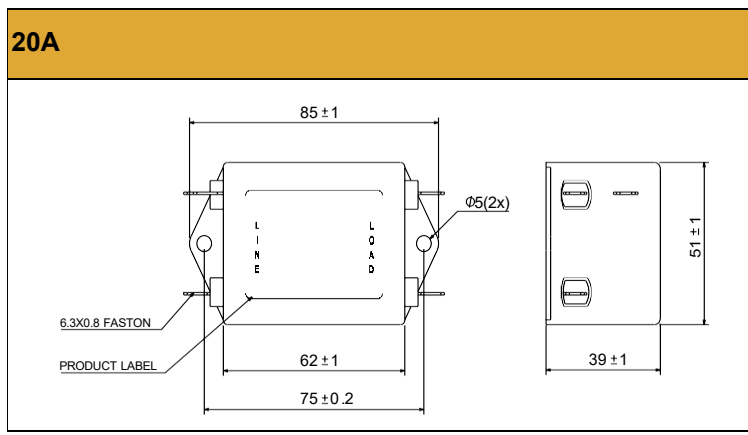
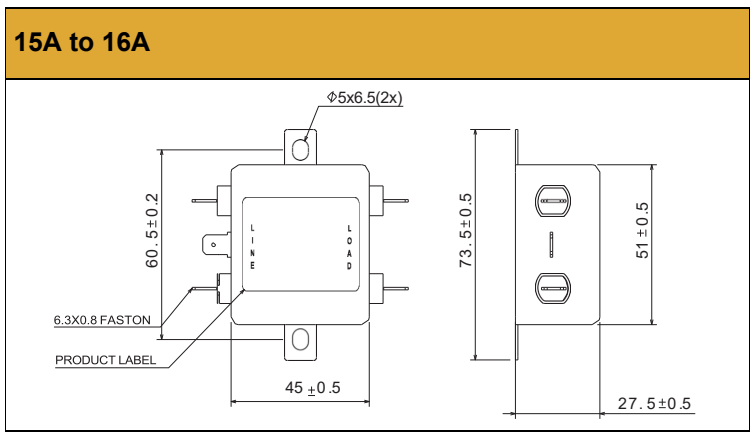
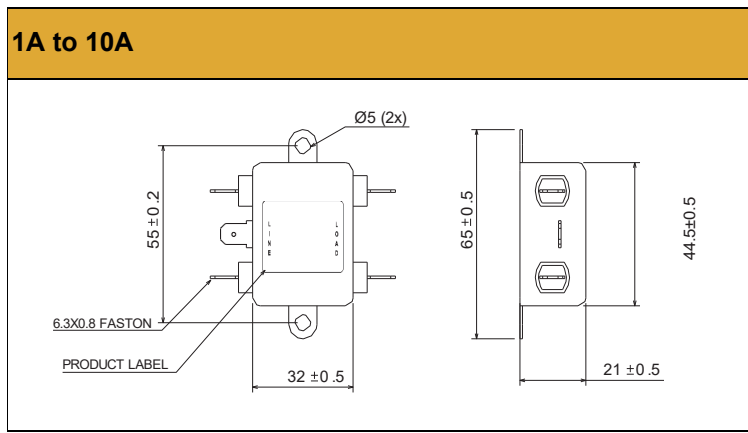
## Selection Table/Standard Version

Available Part Numbers	Rated Current @40°C	Leakage Current (mA) @250VAC/50Hz	Termination		Weight (g)
					
AMI-1610-1-1	1A	0.34	6.3 x 0.8		60
AMI-1610-2-1	2A	0.34	6.3 x 0.8		60
AMI-1610-3-1	3A	0.34	6.3 x 0.8		60
AMI-1610-6-1	6A	0.34	6.3 x 0.8		60
AMI-1610-10-1	10A	0.34	6.3 x 0.8		60
AMI-1610-15-1	15A	0.34	6.3 x 0.8		120
AMI-1610-16-1	16A	0.34	6.3 x 0.8		120
AMI-1610-20-1	20A	0.34	6.3 x 0.8		200
AMI-1610-25-M5	25A	0.73		M5	650
AMI-1610-30-M5	30A	0.73		M5	650
AMI-1610-35-M5	35A	0.73		M5	650
AMI-1610-40-M5	40A	0.73		M5	650
AMI-1610-50-M6	50A	0.73		M6	1000
AMI-1610-60-M8	60A	0.73		M8	1000
AMI-1610-75-M8	75A	0.73		M8	2000
AMI-1610-80-M8	80A	0.73		M8	2000
AMI-1610-100-M10	100A	0.73		M10	2000
AMI-1610-125-M10	125A	0.73		M10	2000

## Selection Table/Medical Version

Available Part Numbers	Rated Current @40°C	Leakage Current (µA) @250VAC/50Hz	Termination		Weight (g)
					
AMI-1610B-1-1	1A	<5	6.3 x 0.8		60
AMI-1610B-2-1	2A	<5	6.3 x 0.8		60
AMI-1610B-3-1	3A	<5	6.3 x 0.8		60
AMI-1610B-6-1	6A	<5	6.3 x 0.8		60
AMI-1610B-10-1	10A	<5	6.3 x 0.8		60
AMI-1610B-15-1	15A	<5	6.3 x 0.8		120
AMI-1610B-16-1	16A	<5	6.3 x 0.8		120
AMI-1610B-20-1	20A	<5	6.3 x 0.8		200
AMI-1610B-25-M5	25A	<5		M5	650
AMI-1610B-30-M5	30A	<5		M5	650
AMI-1610B-35-M5	35A	<5		M5	650
AMI-1610B-40-M5	40A	<5		M5	650
AMI-1610B-50-M6	50A	<5		M6	1000
AMI-1610B-60-M8	60A	<5		M8	1000
AMI-1610B-75-M8	75A	<5		M8	2000
AMI-1610B-80-M8	80A	<5		M8	2000
AMI-1610B-100-M10	100A	<5		M10	2000
AMI-1610B-125-M10	125A	<5		M10	2000

## Mechanical Drawing



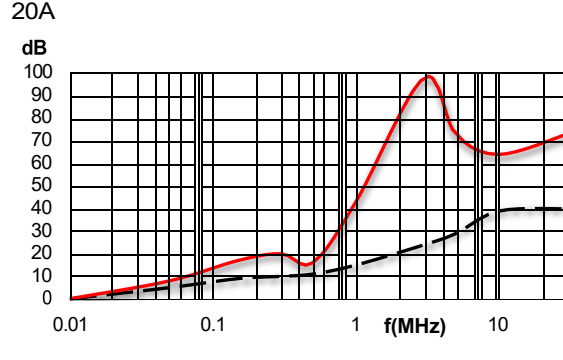
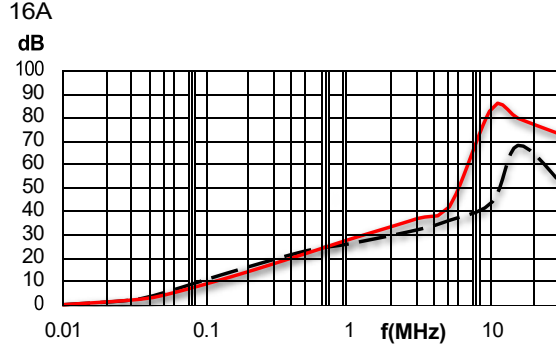
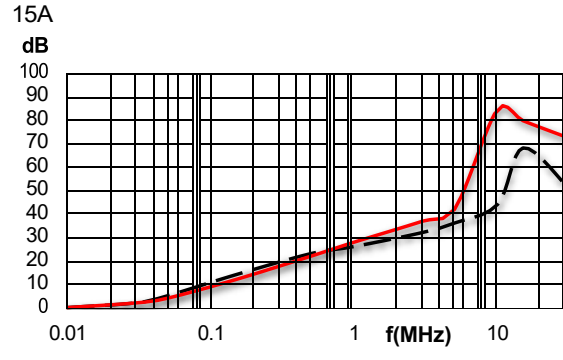
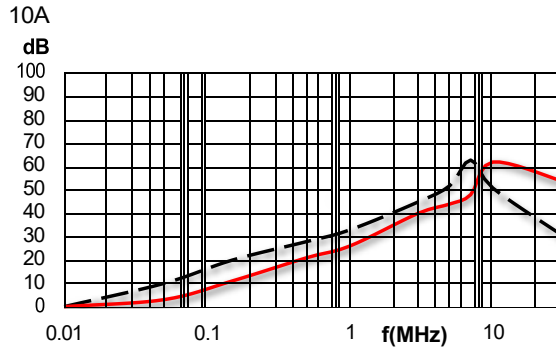
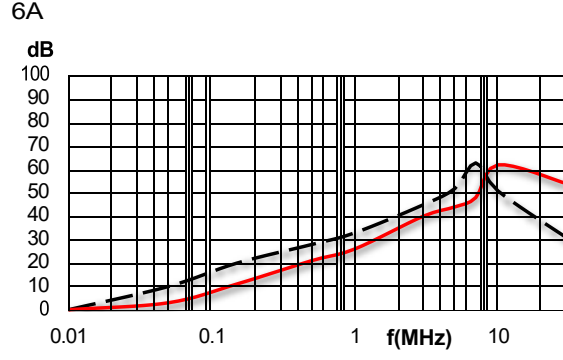
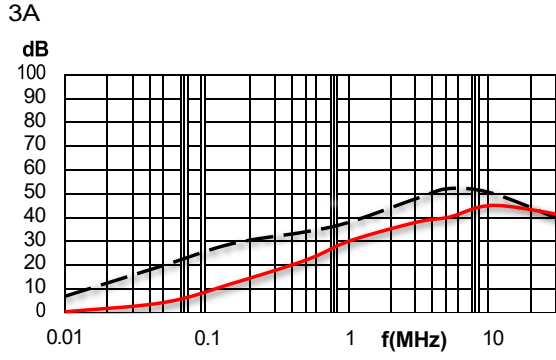
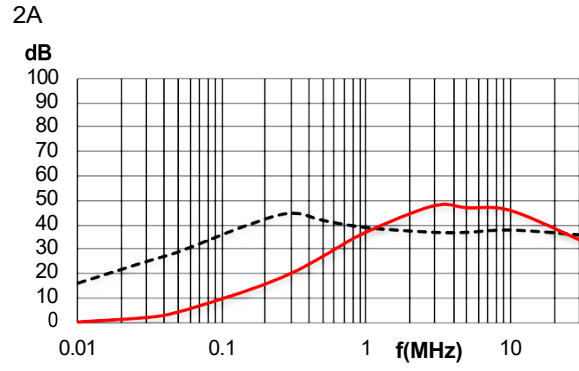
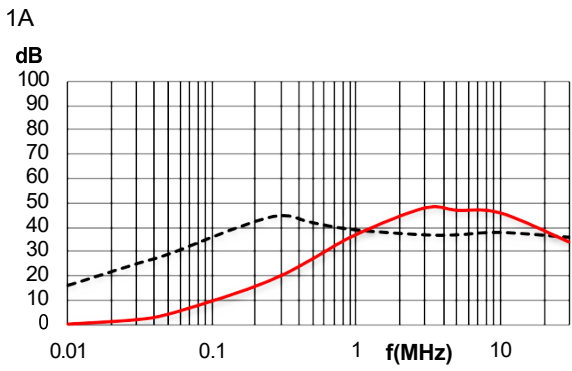
## For Screw Type

Thread	M5	M6	M8	M10
Recommended Torque (Nm)	2.0-2.2	3.5-4.0	8.0-9.0	15.0-17.0
Recommended Torque (Nm) Medical	2.0-3	3.5-4.0	10-14	15.0-17.0
Earth terminal (Nm)	2.0-2.2	3.5-4.0	8.0-9.0	15.0-17.0

## Typical Insertion Loss

According to CISPR17 in 50 Ω system

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

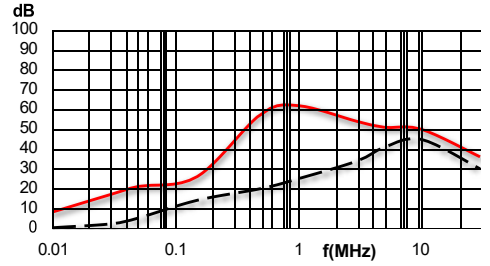


## Typical Insertion Loss

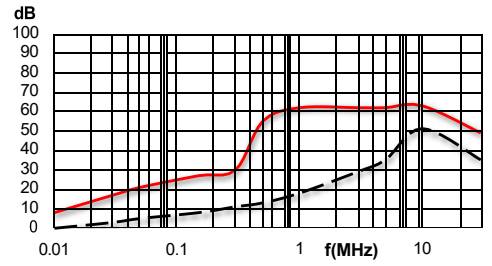
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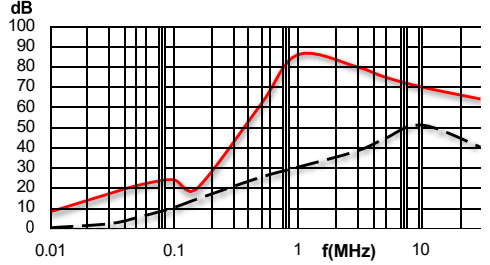
25A



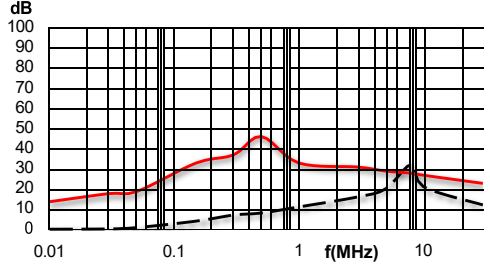
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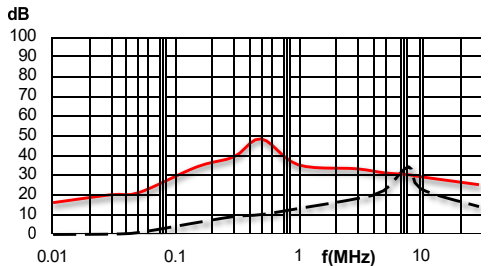
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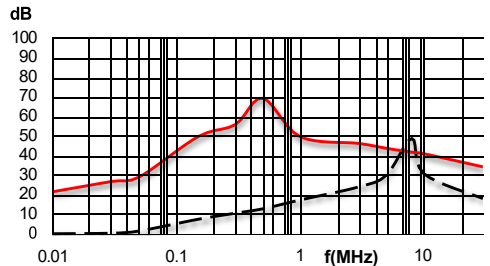
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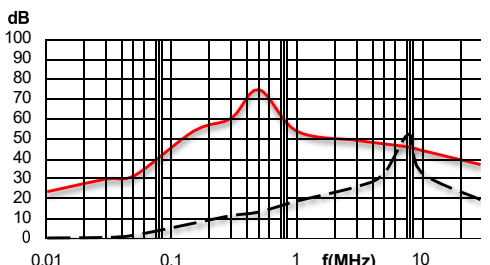
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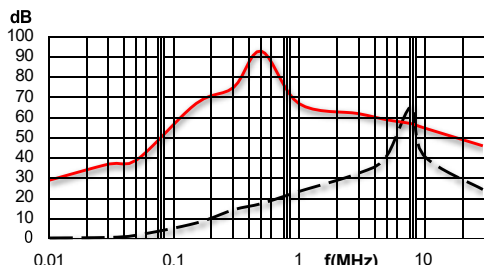
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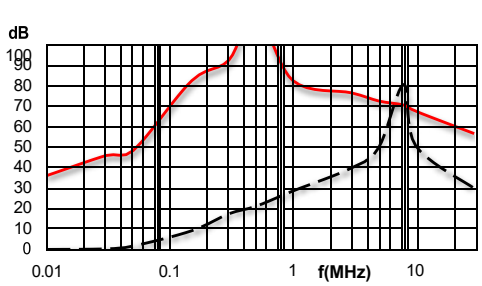
80A



100A



125A

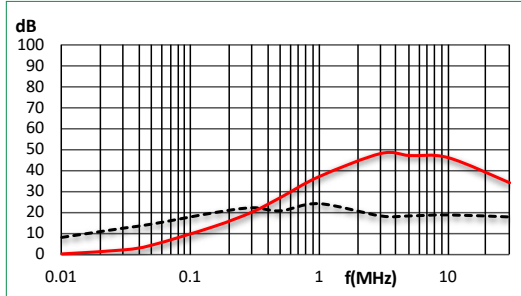


## Typical Insertion Loss (Medical Version)

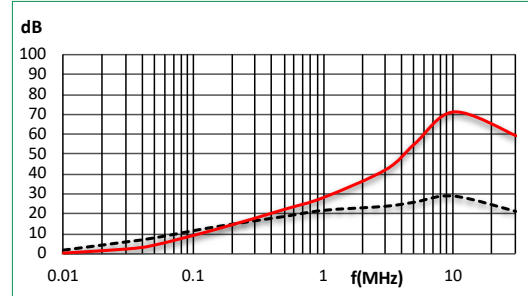
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)  
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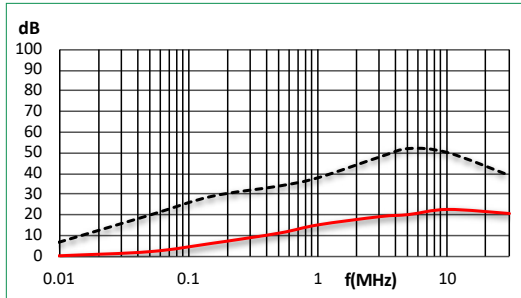
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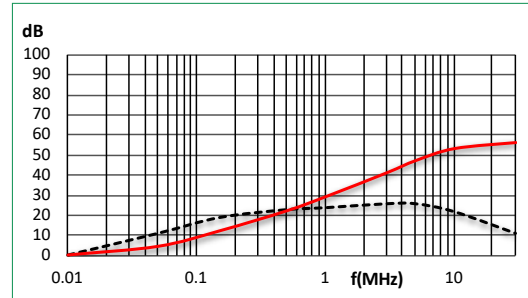
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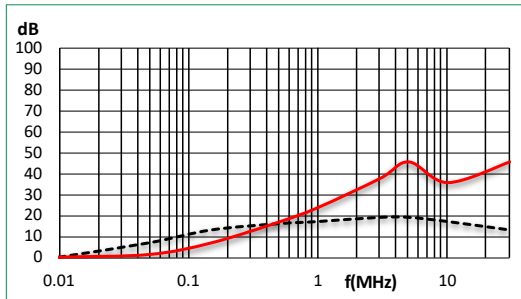
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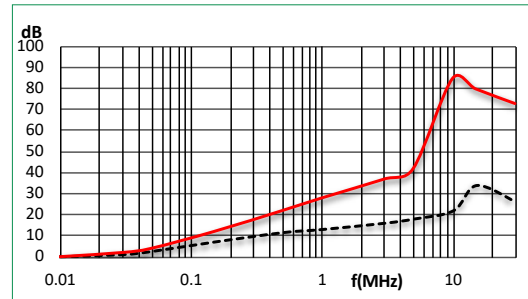
6A



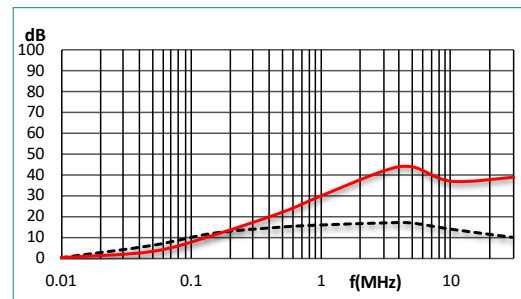
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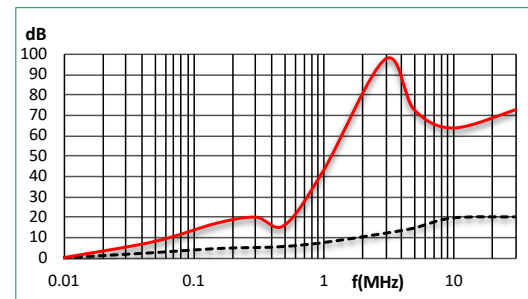
15A



16A



20A



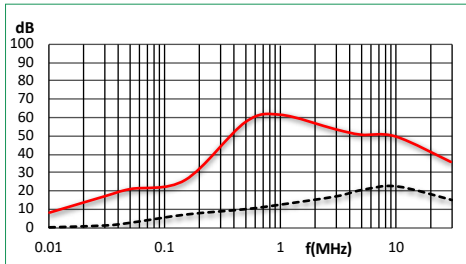
## Typical Insertion Loss

(Medical Version)

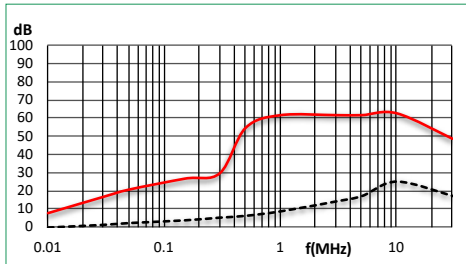
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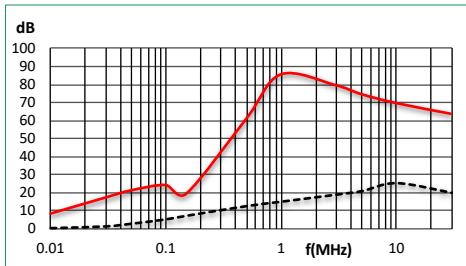
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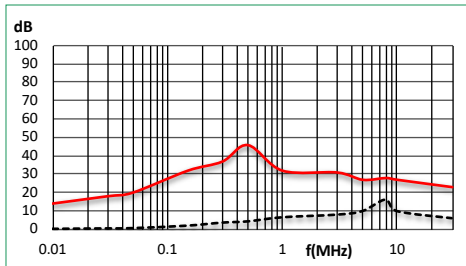
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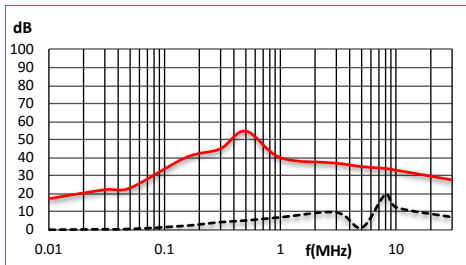
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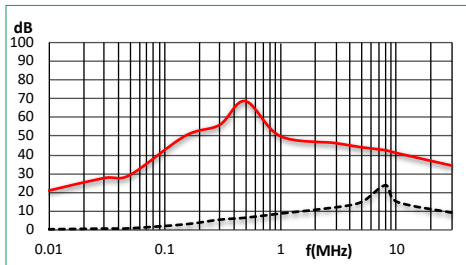
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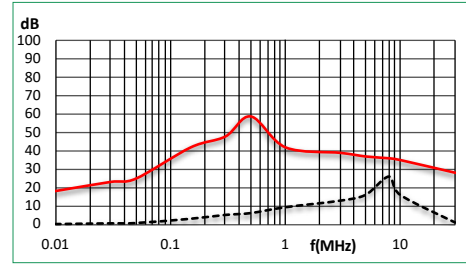
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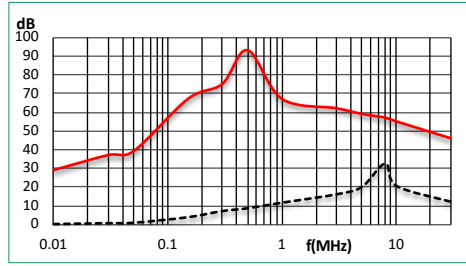
75A



80A



100A



125A

