

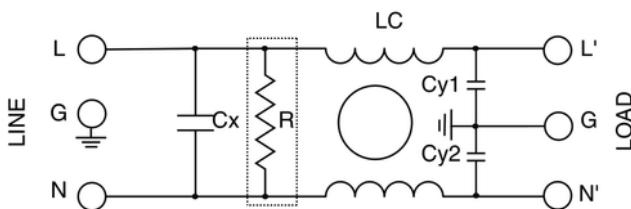


DATASHEET

IEC INLET FILTER - MF300 Series

These series range of filters with IEC Inlet are designed to suppress undesirable electrical disturbances in Power Lines. They limit the amplitude of interfering voltages on AC powerlines and prevent them from propagating into or out of the filtered equipment

Typical Circuit Diagram:



CY capacitors are not applicable for the medical version

Bleeder Resistor is optional

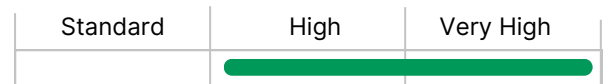
Features:

- Exceptional conducted attenuation performance
- Excellent thermal stability
- Standard Mounting flange
- Designed with C14 and C20 connector
- Custom versions available on request
- Medical , safety versions are available

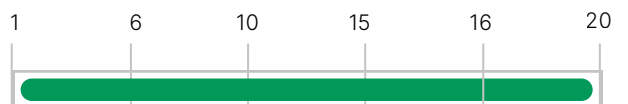
Applications:

- Power Systems
- Electronic Equipment
- Frequency convertors
- Stepper motor drives
- Rack mounting Equipment
- Medical equipment
- UPS/Inverters

Performance Indicator:



Rated Current (A):



Technical Specifications:

Maximum Continuous Operating Voltage : 250 VAC, 50/60Hz (UL Approval)
250 VDC

Operating Frequency : DC to 400Hz

Current ratings : 1A to 20A @40°C

High Potential test voltage : L+N - G 2250VDC for 2 sec
L-N 1450VDC for 2 sec

Overload Capability : 135% of Rated current for 15 minutes

Design Corresponding to : UL 60939-3, CSA 22.2 No.8-13 and IEC 60939-3

Flammability corresponding to : UL 94 V-0

Temperature range : -25°C to +100°C

Climatic Category : 25/100/21

Ordering Information :

Standard Version : High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-102-1-4	E100001-2	1	0.34	C14	-4	80
MF300-102-2-4	E100001-8	2	0.34	C14	-4	80
MF300-102-3-4	E100001-3	3	0.34	C14	-4	80
MF300-102-6-4	E100001-4	6	0.34	C14	-4	80
MF300-102-10-4	E100001-5	10	0.34	C14	-4	80
MF300-102-15-4	E100001-6	15	0.34	C14	-4	80
MF300-102-16-4	E113091-1	16	0.34	C20	-4	120
MF300-102-20-4	E113092-1	20	0.34	C20	-4	120
MF300-502-1-4	E113093-1	1	0.34	C14	-4	80
MF300-502-2-4	E113094-1	2	0.34	C14	-4	80
MF300-502-3-4	E113095-1	3	0.34	C14	-4	80
MF300-502-6-4	E113096-1	6	0.34	C14	-4	80
MF300-502-10-4	E113097-1	10	0.34	C14	-4	80
MF300-502-15-4	E113098-1	15	0.34	C14	-4	80
MF300-502-16-4	E113099-1	16	0.34	C20	-4	120
MF300-502-20-4	E113100-1	20	0.34	C20	-4	120

Safety Version : High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-102S-1-4	E113111-1	1	0.16	C14	-4	80
MF300-102S-2-4	E113112-1	2	0.16	C14	-4	80
MF300-102S-3-4	E113113-1	3	0.16	C14	-4	80
MF300-102S-6-4	E113114-1	6	0.16	C14	-4	80
MF300-102S-10-4	E113115-1	10	0.16	C14	-4	80
MF300-102S-15-4	E113116-1	15	0.16	C14	-4	80
MF300-102S-16-4	E113117-1	16	0.16	C20	-4	120
MF300-102S-20-4	E113118-1	20	0.16	C20	-4	120
MF300-502S-1-4	E113119-1	1	0.16	C14	-4	80
MF300-502S-2-4	E113120-1	2	0.16	C14	-4	80
MF300-502S-3-4	E113121-1	3	0.16	C14	-4	80
MF300-502S-6-4	E113122-1	6	0.16	C14	-4	80
MF300-502S-10-4	E113123-1	10	0.16	C14	-4	80
MF300-502S-15-4	E113124-1	15	0.16	C14	-4	80
MF300-502S-16-4	E113125-1	16	0.16	C20	-4	120
MF300-502S-20-4	E113126-1	20	0.16	C20	-4	120

Medical Version : High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (μA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-102M-1-4	E100998-2	1	0	C14	-4	80
MF300-102M-2-4	E100998-8	2	0	C14	-4	80
MF300-102M-3-4	E100998-3	3	0	C14	-4	80
MF300-102M-6-4	E100998-4	6	0	C14	-4	80
MF300-102M-10-4	E100998-5	10	0	C14	-4	80
MF300-102M-15-4	E100998-6	15	0	C14	-4	80
MF300-102M-16-4	E113101-1	16	0	C20	-4	120
MF300-102M-20-4	E113102-1	20	0	C20	-4	120
MF300-502M-1-4	E113103-1	1	0	C14	-4	80
MF300-502M-2-4	E113104-1	2	0	C14	-4	80
MF300-502M-3-4	E113105-1	3	0	C14	-4	80
MF300-502M-6-4	E113106-1	6	0	C14	-4	80
MF300-502M-10-4	E113107-1	10	0	C14	-4	80
MF300-502M-15-4	E113108-1	15	0	C14	-4	80
MF300-502M-16-4	E113109-1	16	0	C20	-4	120
MF300-502M-20-4	E113110-1	20	0	C20	-4	120

Standard Version : Very High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-103-1-4	E113127-1	1	0.34	C14	-4	80
MF300-103-2-4	E113128-1	2	0.34	C14	-4	80
MF300-103-3-4	E113129-1	3	0.34	C14	-4	80
MF300-103-6-4	E113130-1	6	0.34	C14	-4	80
MF300-103-10-4	E113131-1	10	0.34	C14	-4	80
MF300-103-15-4	E113132-1	15	0.34	C14	-4	80
MF300-103-16-4	E113133-1	16	0.34	C20	-4	120
MF300-103-20-4	E113134-1	20	0.34	C20	-4	120
MF300-503-1-4	E113135-1	1	0.34	C14	-4	80
MF300-503-2-4	E113136-1	2	0.34	C14	-4	80
MF300-503-3-4	E113137-1	3	0.34	C14	-4	80
MF300-503-6-4	E113138-1	6	0.34	C14	-4	80
MF300-503-10-4	E113139-1	10	0.34	C14	-4	80
MF300-503-15-4	E113140-1	15	0.34	C14	-4	80
MF300-503-16-4	E113141-1	16	0.34	C20	-4	120
MF300-503-20-4	E113142-1	20	0.34	C20	-4	120

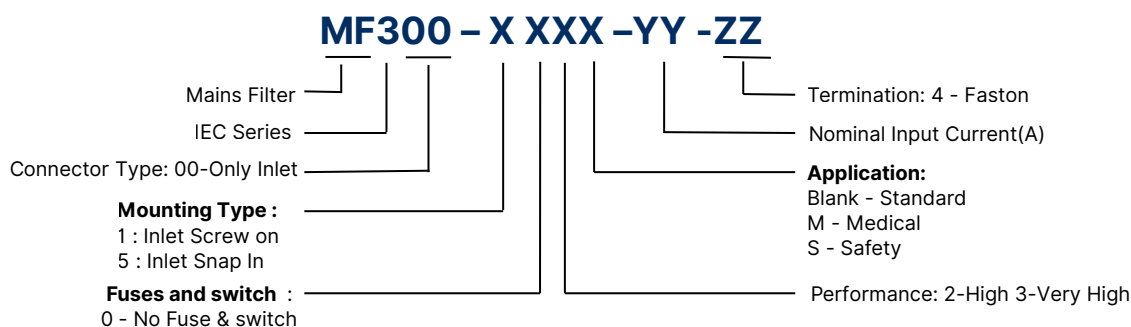
Safety Version : Very High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-103S-1-4	E113159-1	1	0.16	C14	-4	80
MF300-103S-2-4	E113160-1	2	0.16	C14	-4	80
MF300-103S-3-4	E113161-1	3	0.16	C14	-4	80
MF300-103S-6-4	E113162-1	6	0.16	C14	-4	80
MF300-103S-10-4	E113163-1	10	0.16	C14	-4	80
MF300-103S-15-4	E113164-1	15	0.16	C14	-4	80
MF300-103S-16-4	E113165-1	16	0.16	C20	-4	120
MF300-103S-20-4	E113166-1	20	0.16	C20	-4	120
MF300-503S-1-4	E113167-1	1	0.16	C14	-4	80
MF300-503S-2-4	E113168-1	2	0.16	C14	-4	80
MF300-503S-3-4	E113169-1	3	0.16	C14	-4	80
MF300-503S-6-4	E113170-1	6	0.16	C14	-4	80
MF300-503S-10-4	E113171-1	10	0.16	C14	-4	80
MF300-503S-15-4	E113172-1	15	0.16	C14	-4	80
MF300-503S-16-4	E113173-1	16	0.16	C20	-4	120
MF300-503S-20-4	E113174-1	20	0.16	C20	-4	120

Medical Version : Very High Performance						
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (μA)	Input Connector	Output Termination 	Min.Weight (g)
MF300-103M-1-4	E113143-1	1	0	C14	-4	80
MF300-103M-2-4	E113144-1	2	0	C14	-4	80
MF300-103M-3-4	E113145-1	3	0	C14	-4	80
MF300-103M-6-4	E113146-1	6	0	C14	-4	80
MF300-103M-10-4	E113147-1	10	0	C14	-4	80
MF300-103M-15-4	E113148-1	15	0	C14	-4	80
MF300-103M-16-4	E113149-1	16	0	C20	-4	120
MF300-103M-20-4	E113150-1	20	0	C20	-4	120
MF300-503M-1-4	E113151-1	1	0	C14	-4	80
MF300-503M-2-4	E113152-1	2	0	C14	-4	80
MF300-503M-3-4	E113153-1	3	0	C14	-4	80
MF300-503M-6-4	E113154-1	6	0	C14	-4	80
MF300-503M-10-4	E113155-1	10	0	C14	-4	80
MF300-503M-15-4	E113156-1	15	0	C14	-4	80
MF300-503M-16-4	E113157-1	16	0	C20	-4	120
MF300-503M-20-4	E113158-1	20	0	C20	-4	120

Note :

The EMI filter model name for MF140 has been updated to MF300-XXXM-YY-ZZ.
Standardized leakage current calculation as per IEC60939 under normal operating condition.

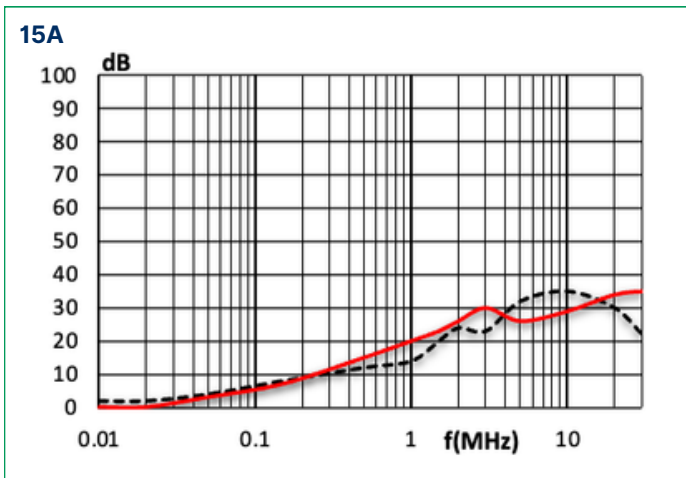
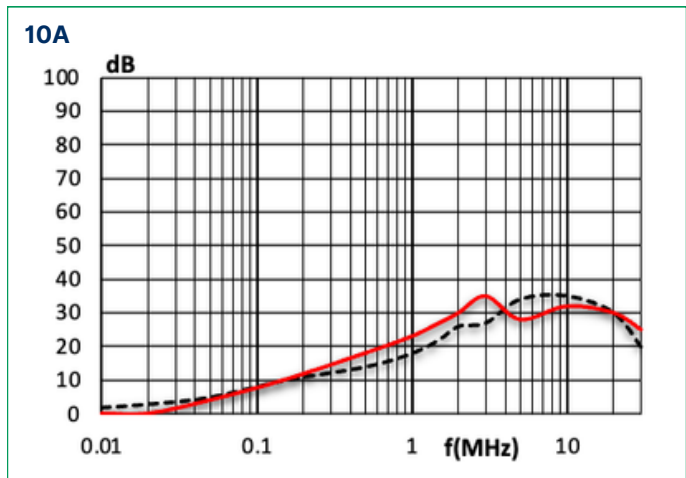
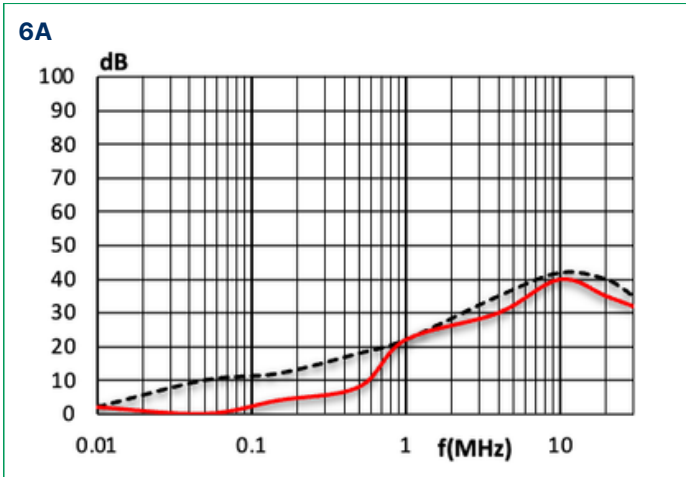
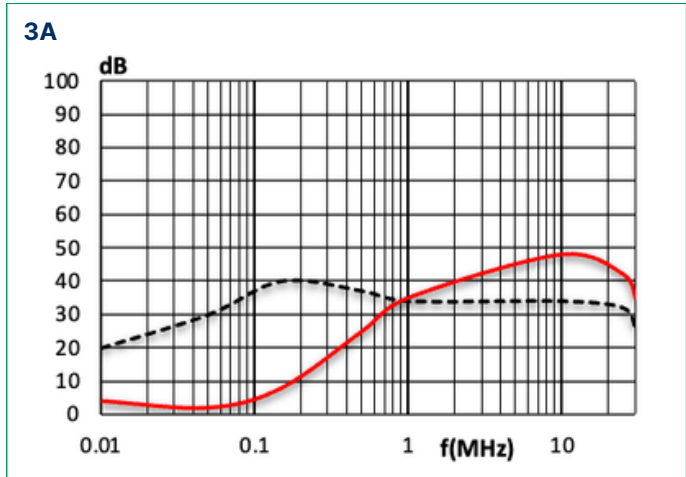
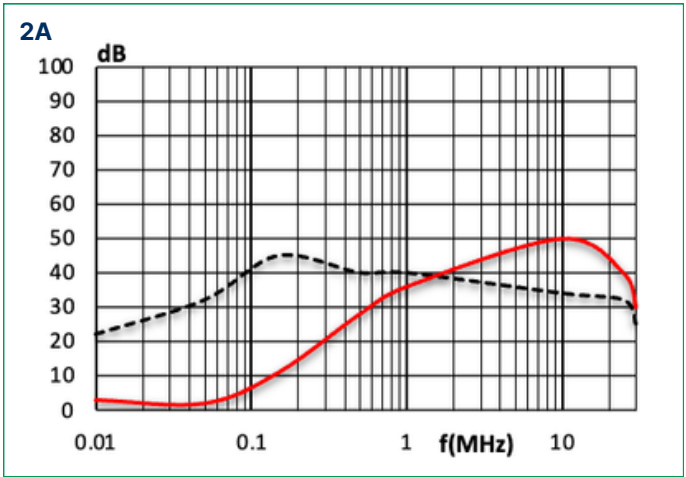
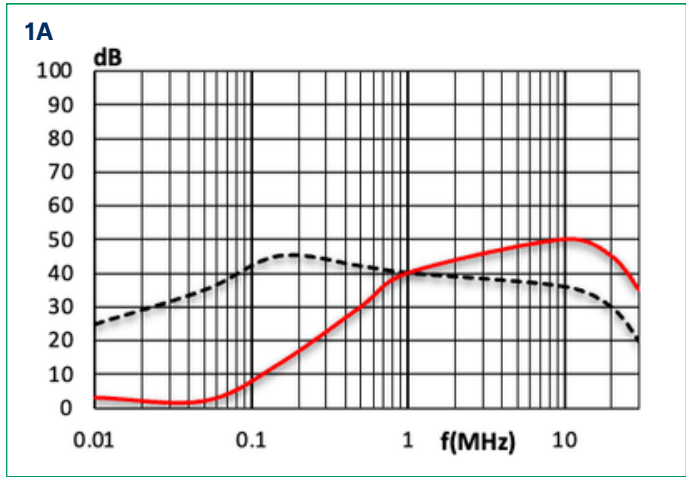
Product Selector



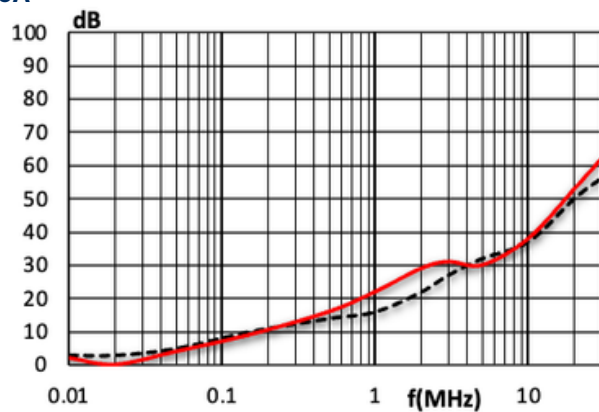
Insertion Loss : High Performance

..... Common mode _____ Differential Mode
Per CISPR 17 C=50Ω/50Ω D=50Ω/50Ω

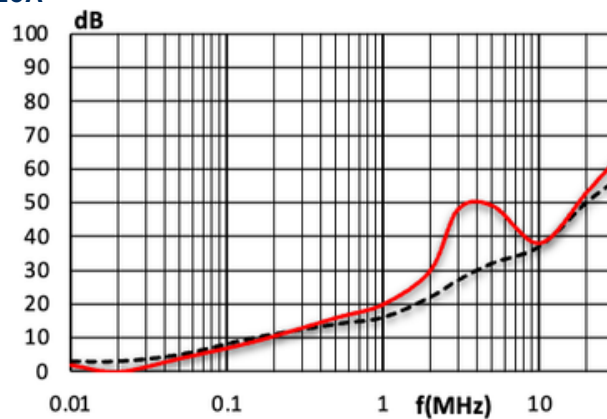
Standard Version



16A

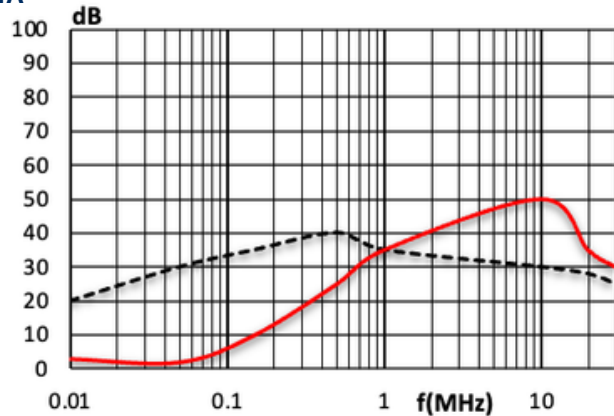


20A

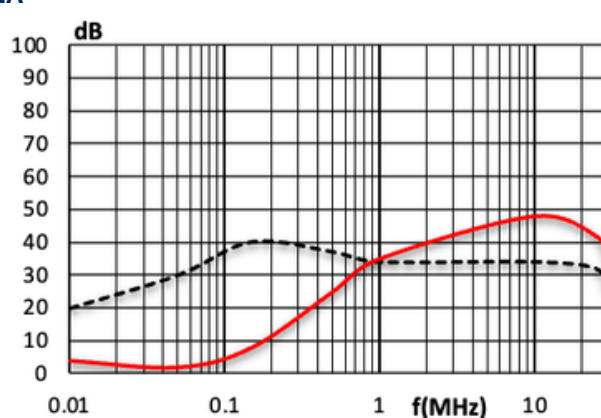


Safety Version

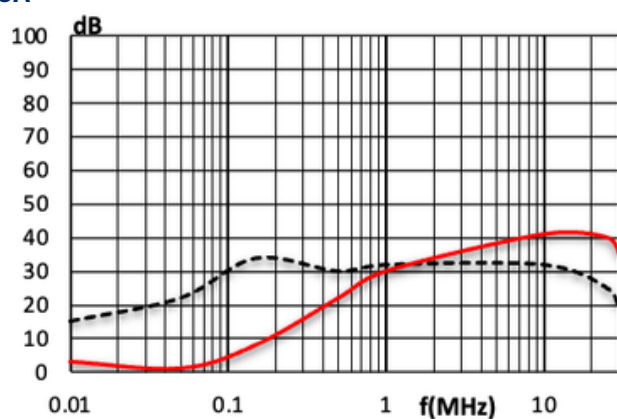
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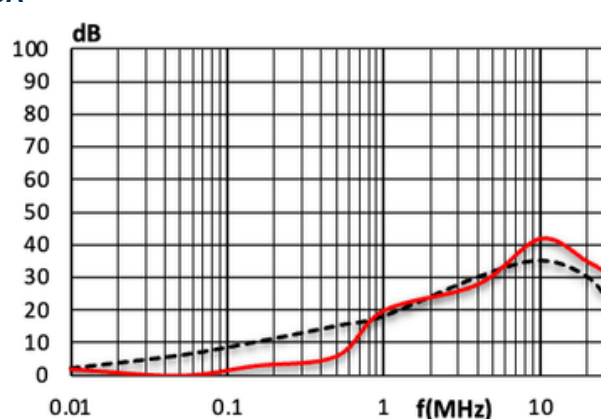
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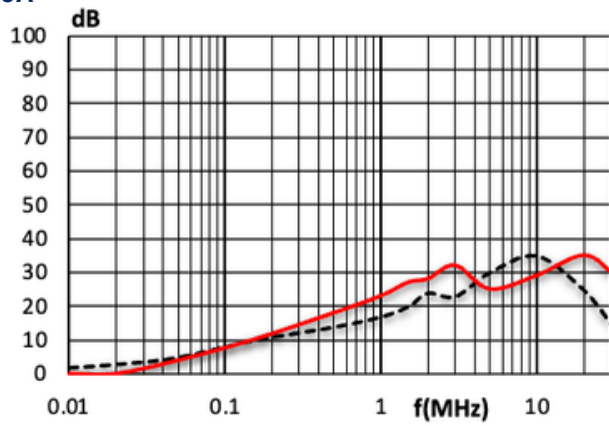
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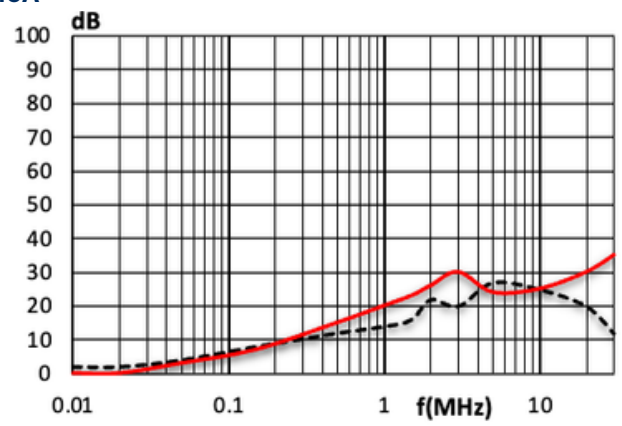
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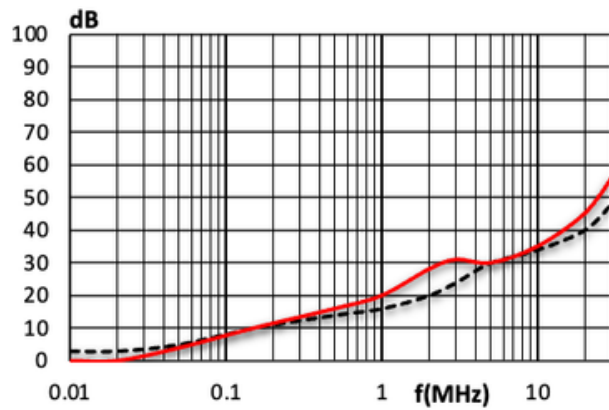
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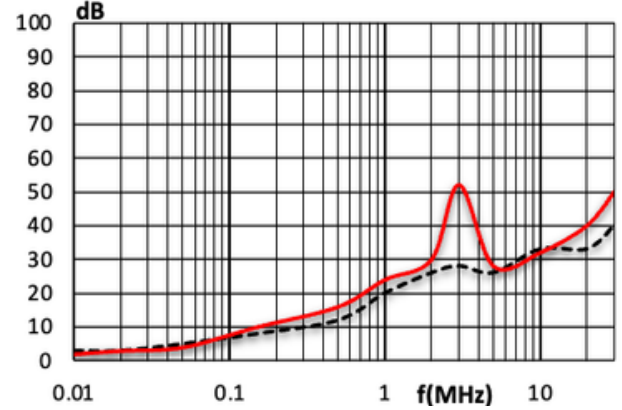
15A



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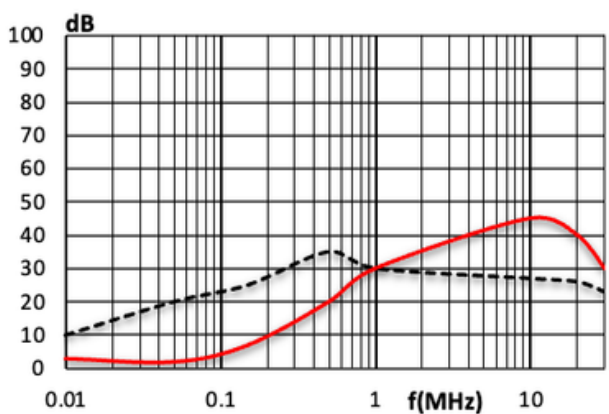


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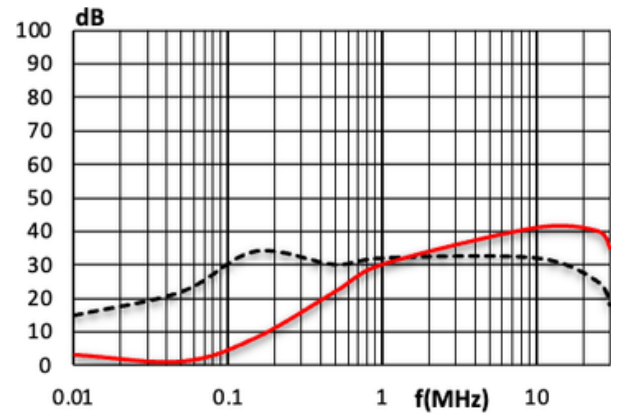


Medical Version

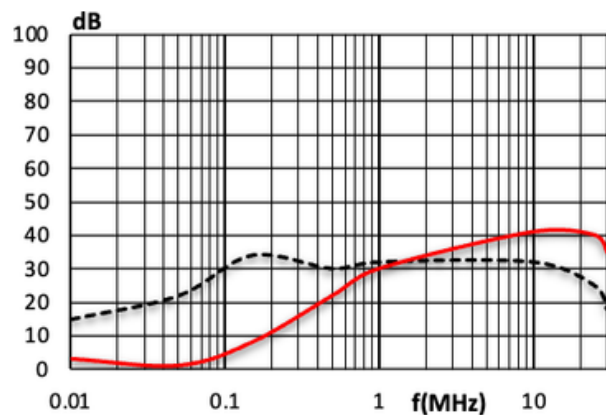
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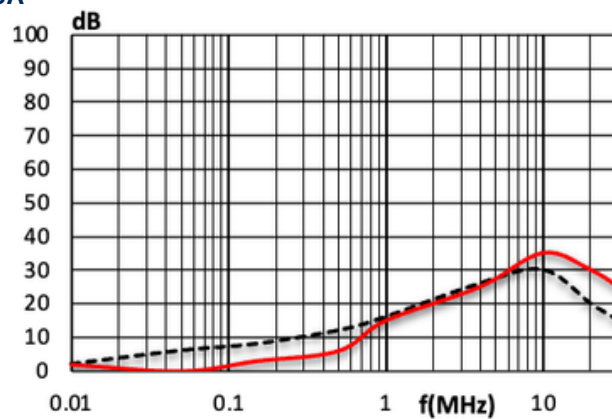
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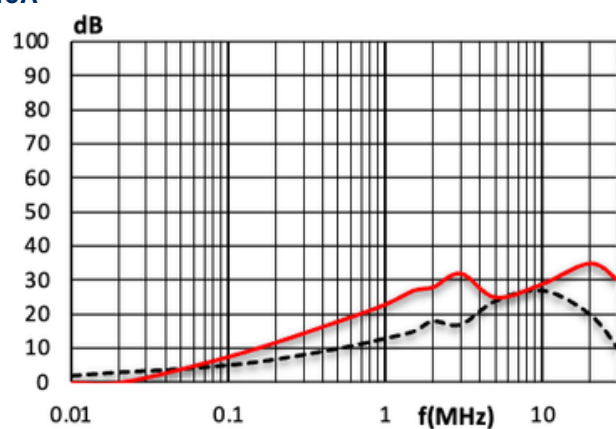
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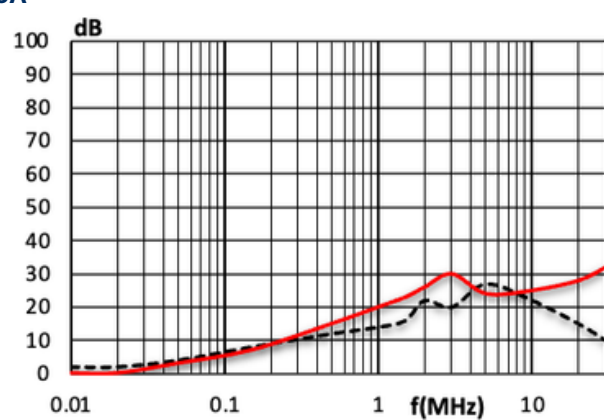
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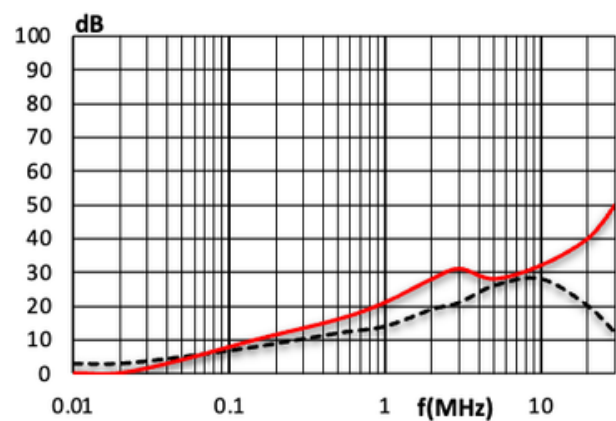
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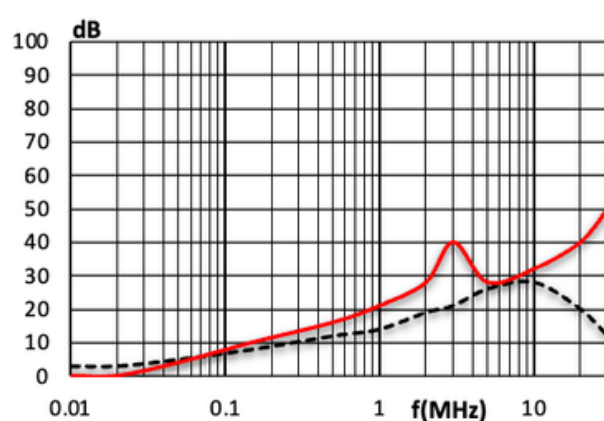
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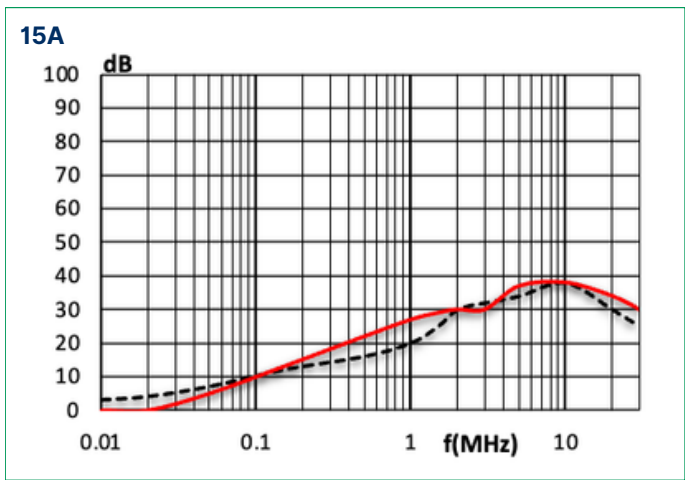
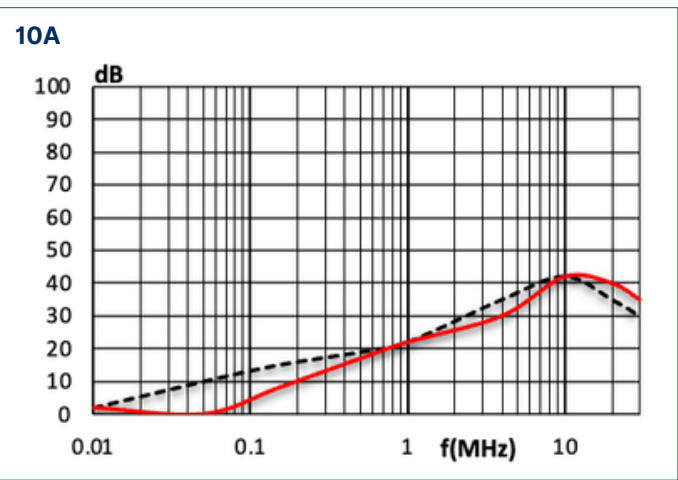
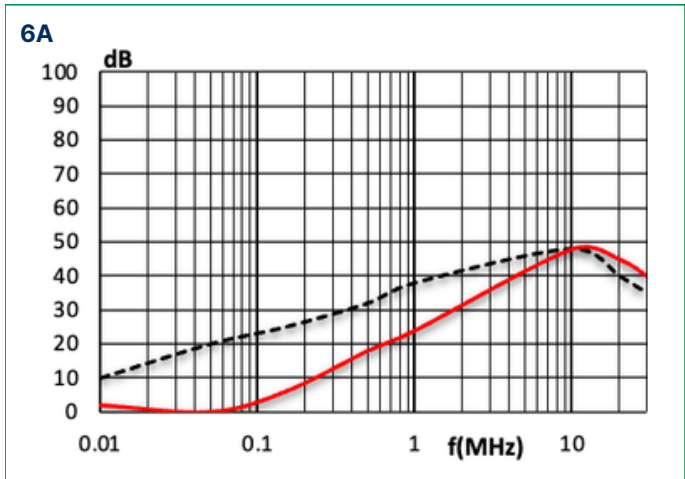
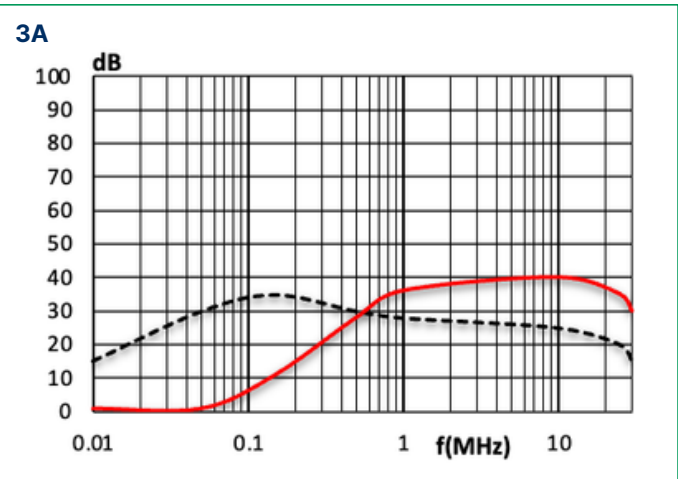
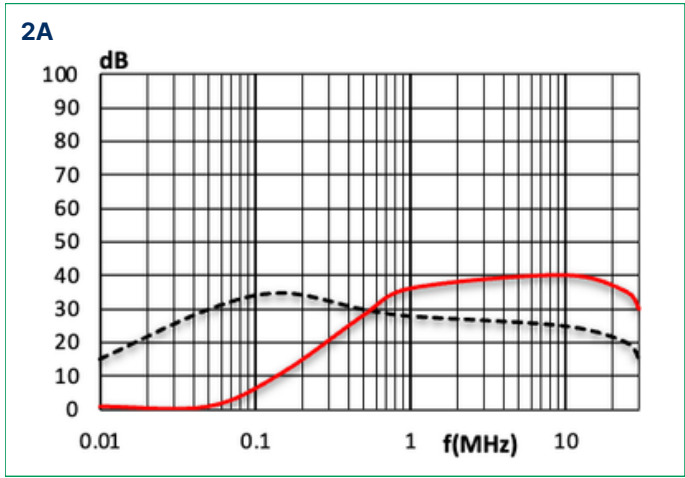
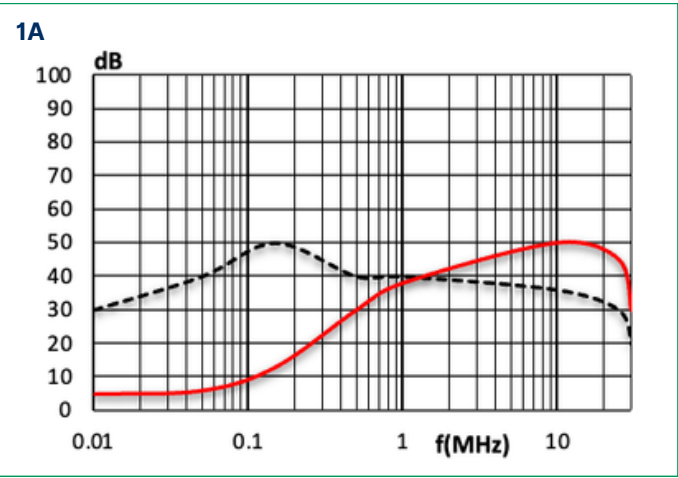


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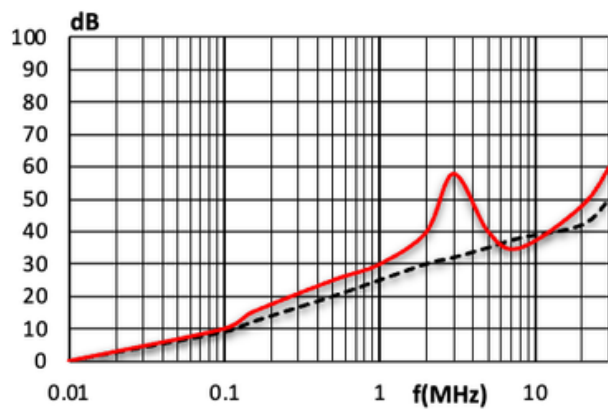


Insertion Loss : Very High Performance

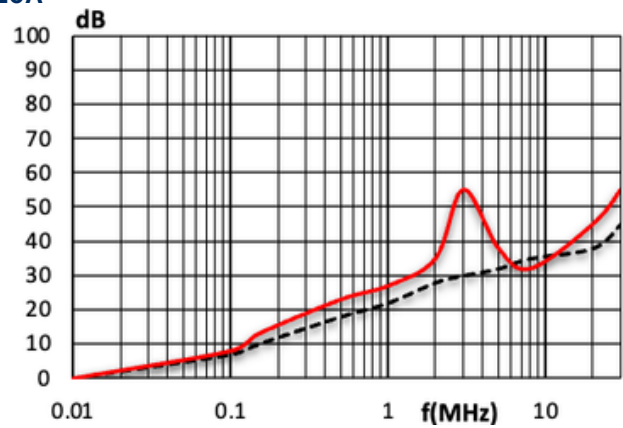
Standard Version



16A

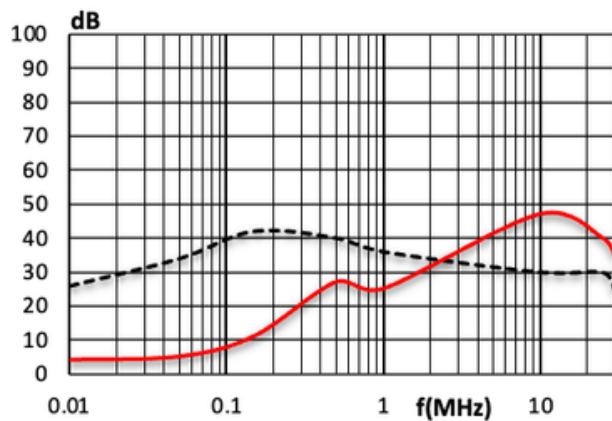


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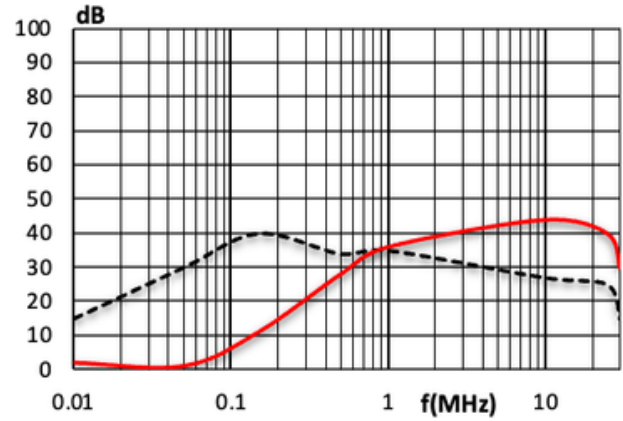


Safety Version

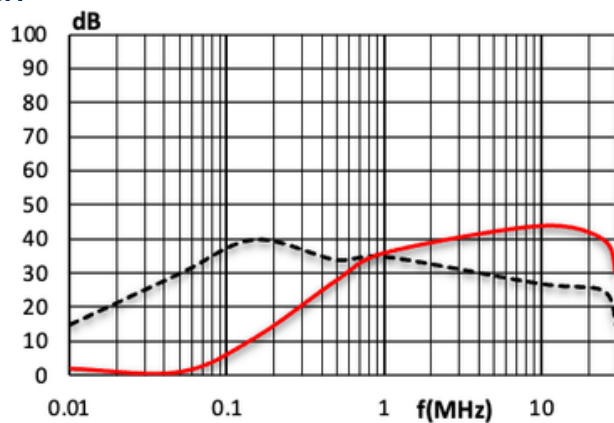
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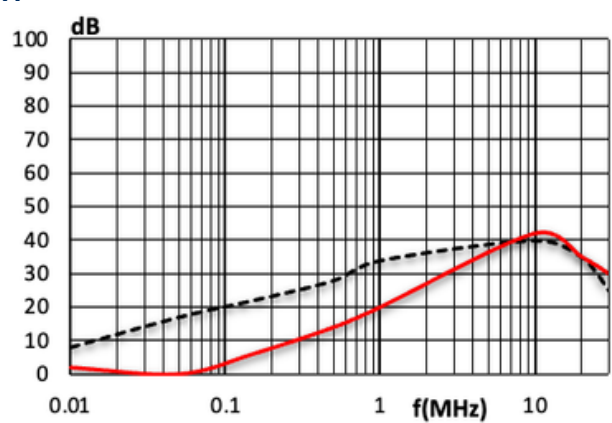
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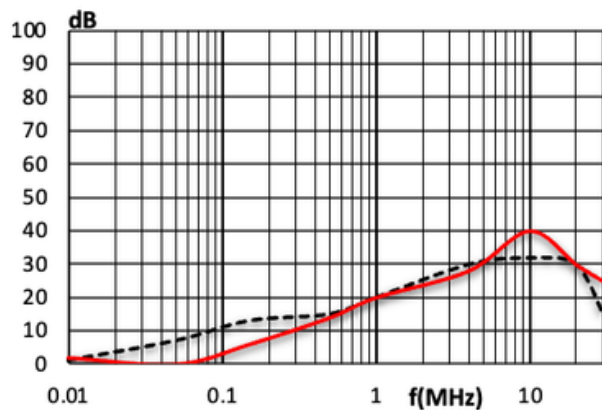
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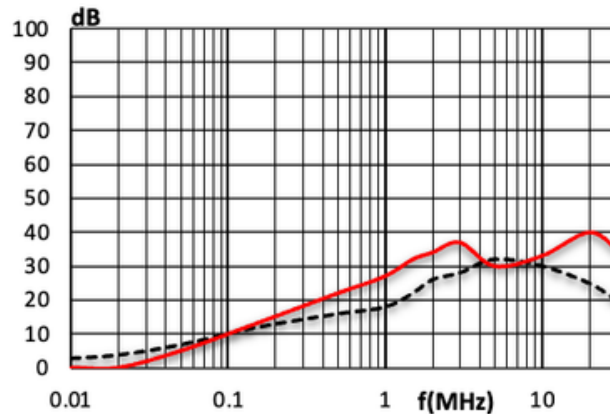
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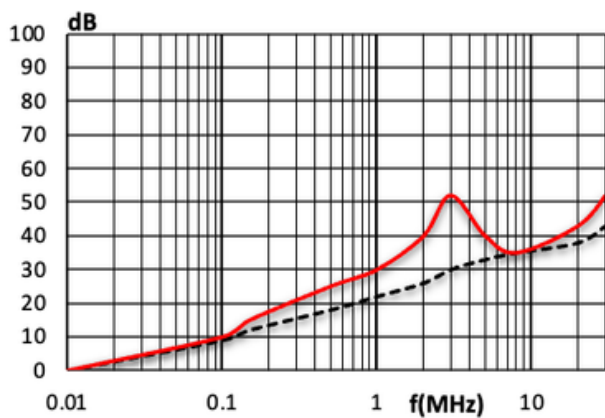
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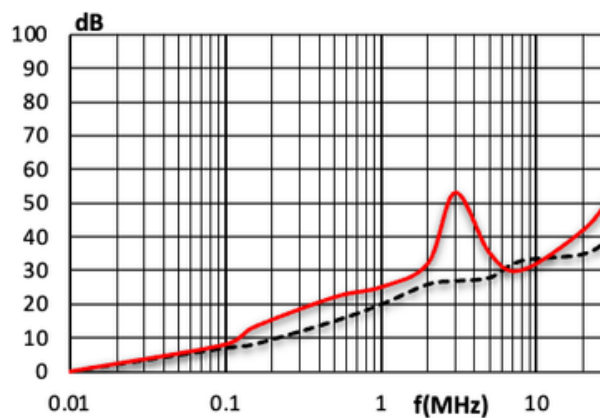
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16A

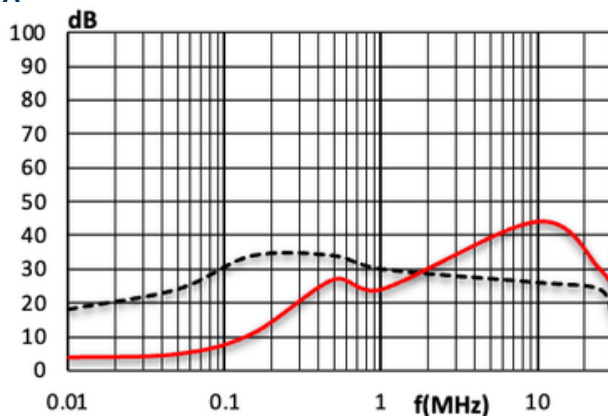


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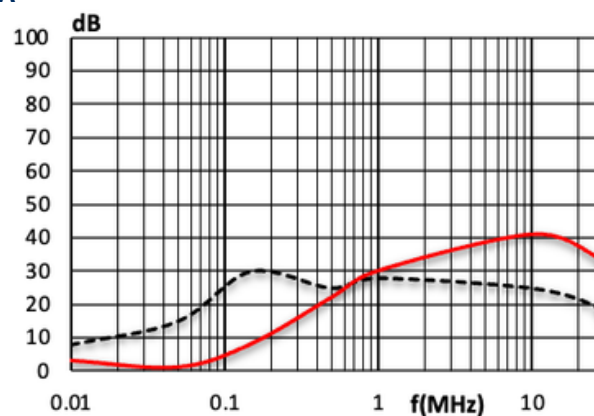


Medical Version

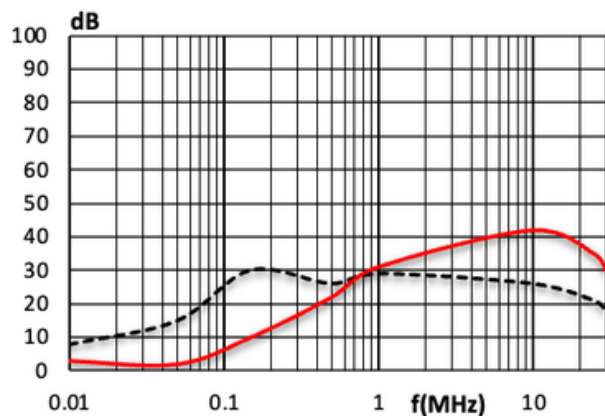
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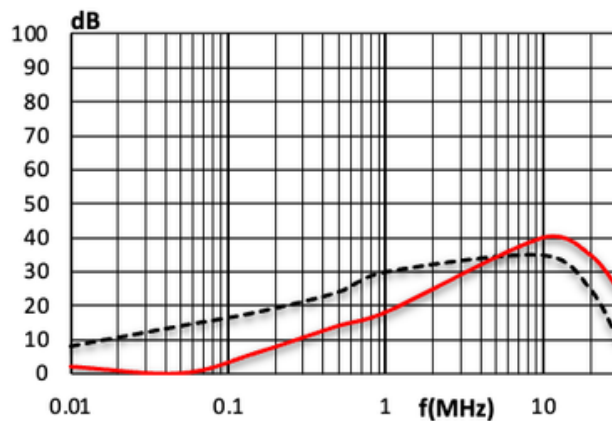
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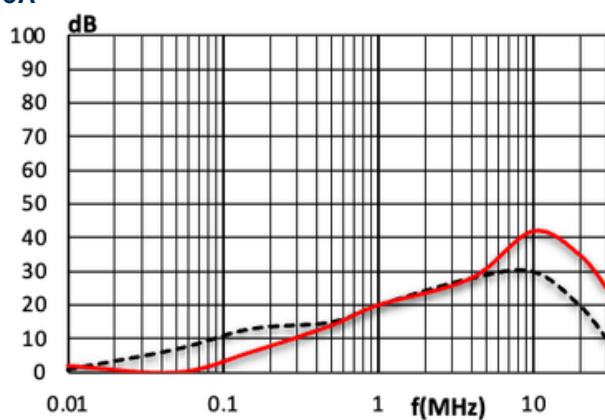
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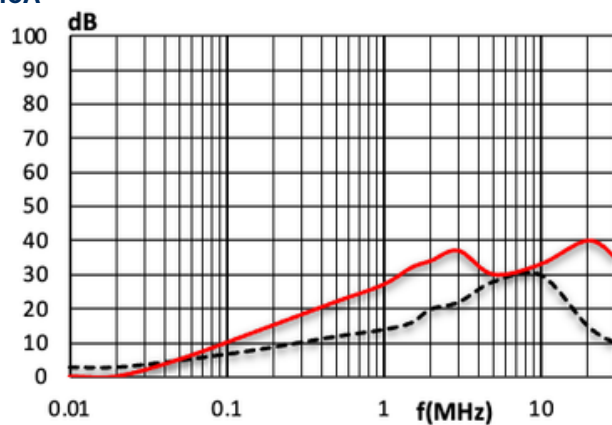
6A



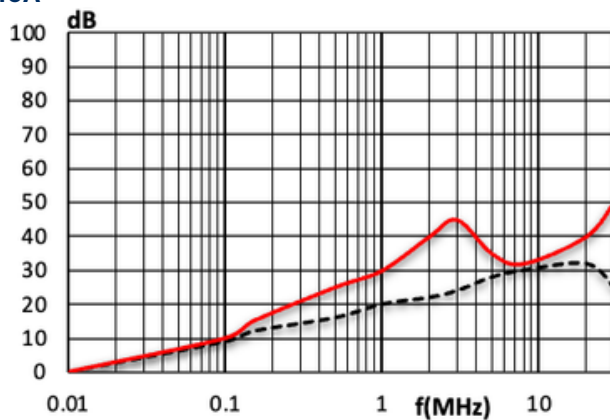
10A



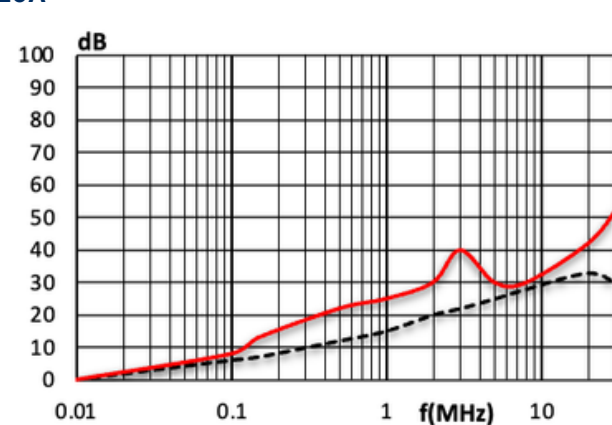
15A



16A

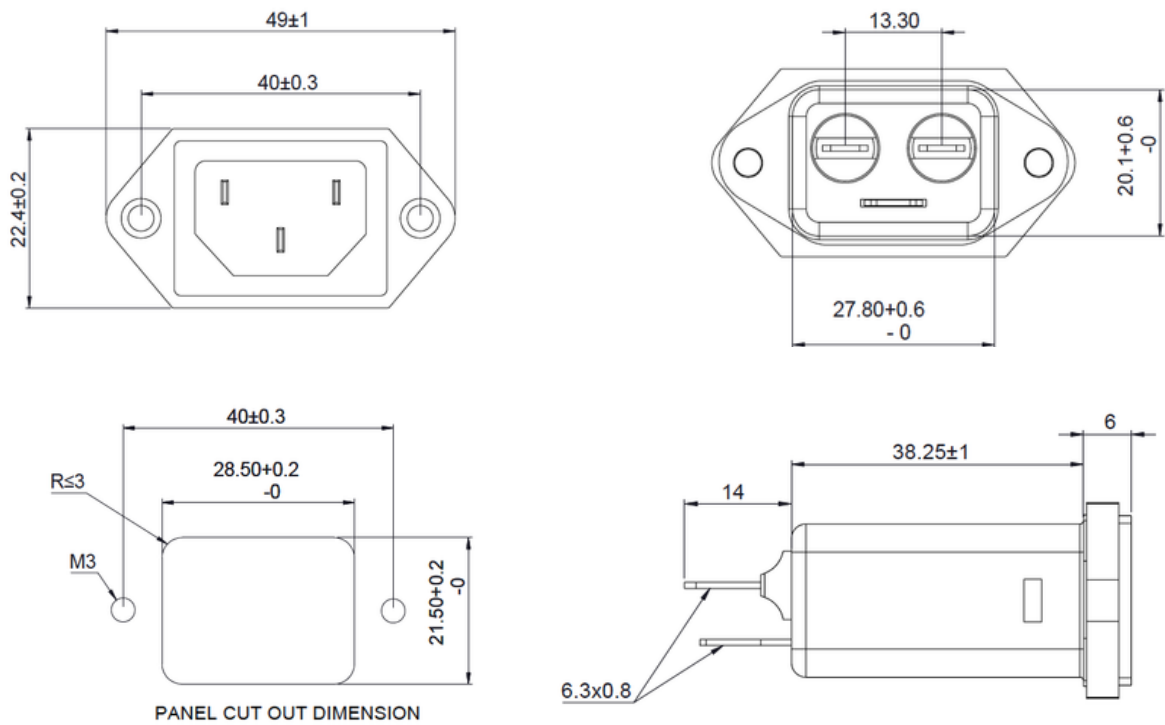


20A

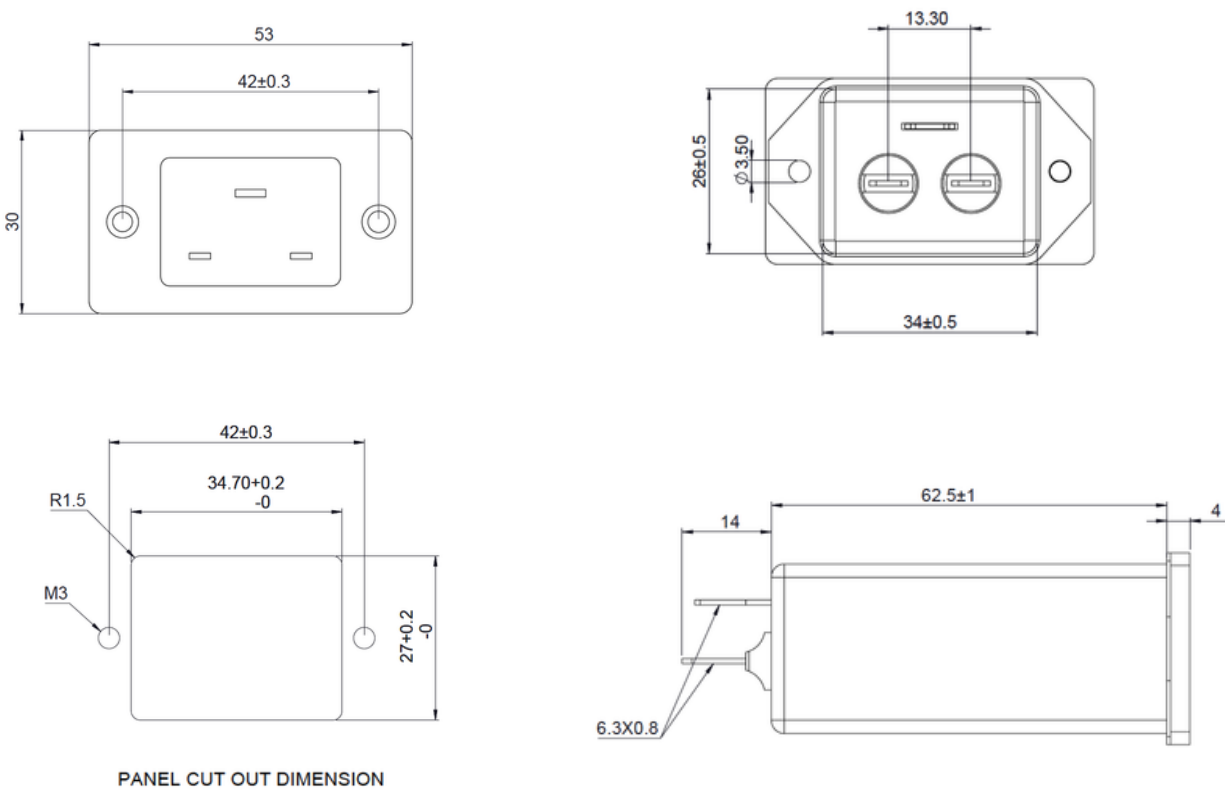


Mechanical Drawing

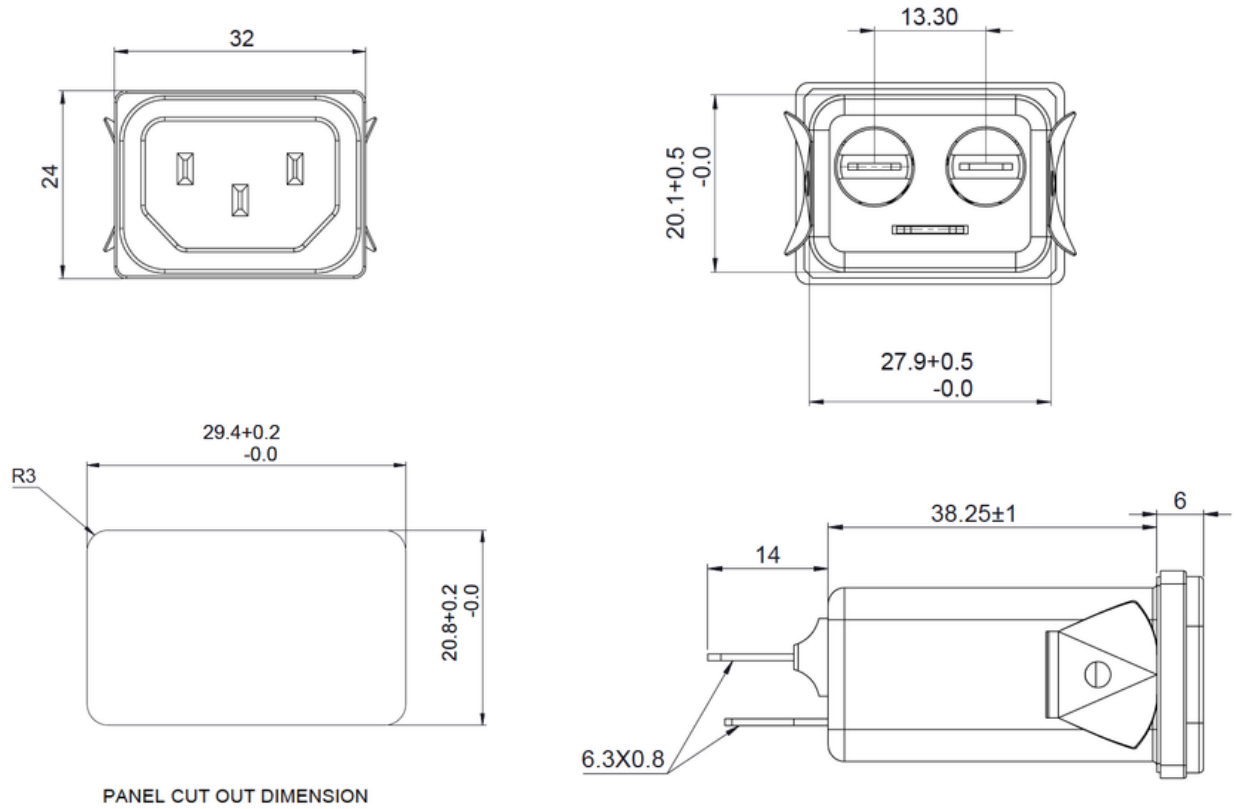
Screw Mount 1A to 15A - C14 Connector



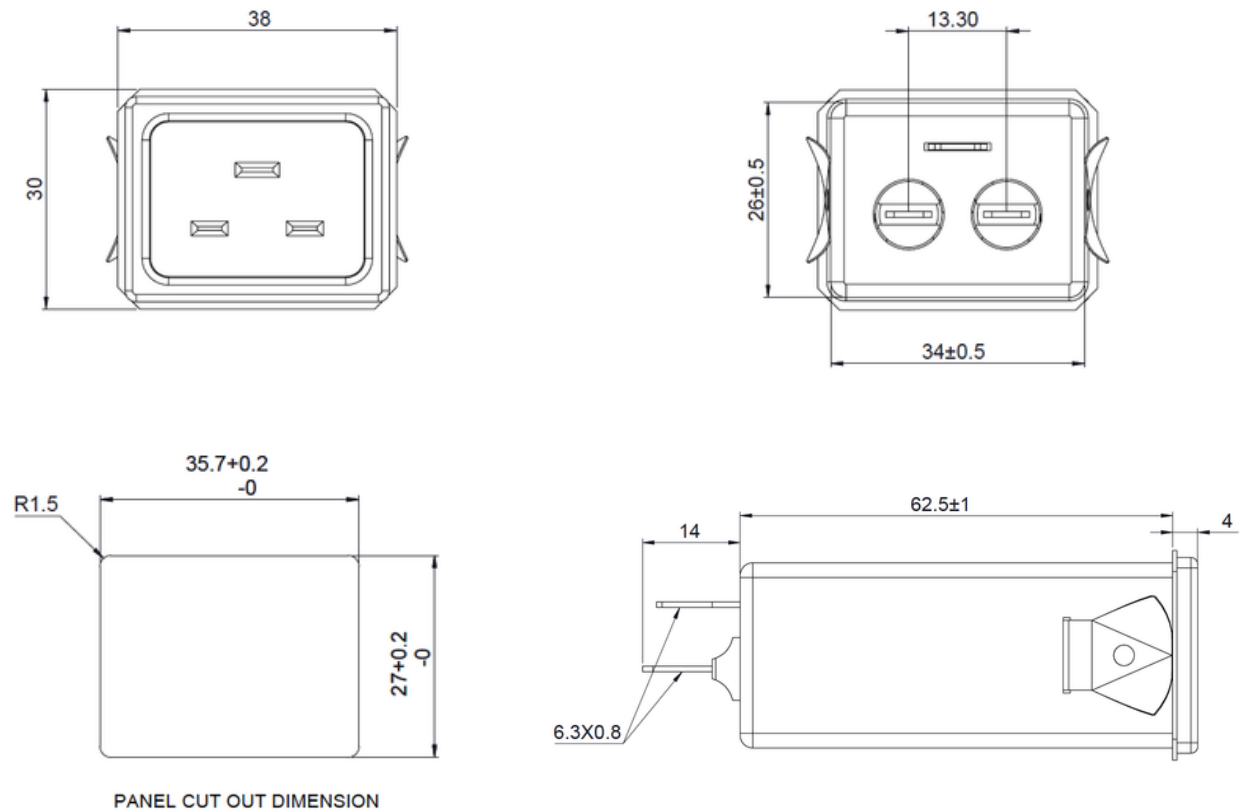
Screw Mount 16A & 20A - C20 Connector



Snap in Mount 1A to 15A - C14 Connector



Snap in Mount 16A & 20A - C20 Connector



Note: All dimensions in mm, unless otherwise specified, tolerances are in accordance with ISO2768-C.