


Features:

- Integral IEC C14 Connector
- Rated currents up to 10 A
- Single Fuse/Double Fuse Option
- Excellent conducted attenuation Performance
- Medical, Safety versions are available

Applications:

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

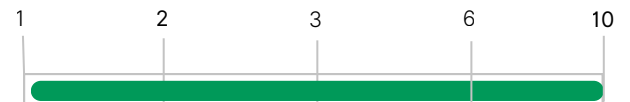
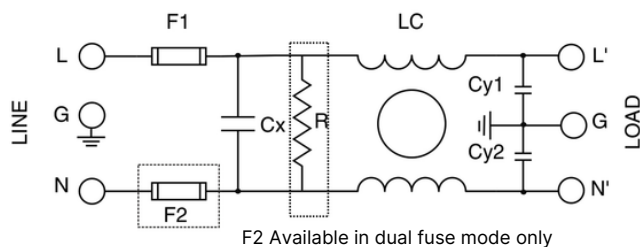
DATASHEET

IEC INLET WITH FUSE TYPE- MF310 Series

These series range of IEC inlet type filters with fuses 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

Performance Indicator:

Standard	High	Very High

Rated Current (A):

Typical Circuit Diagram:


CY Capacitors are not applicable for medical version

Bleeder resistor is optional

Technical Specifications:

Maximum Continuous Operating Voltage	:250 VAC, 50/60Hz (UL Approval) 250 VDC
Operating Frequency	:DC to 400Hz
Current ratings	:1A to 10A @40°C
High Potential test voltage	:L+N - G 2250VDC for 2 Sec. L-N 1450VDC for 2 Sec.
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)	Output Termination 	Min.Weight (g)
MF310-112-1-4	E100012-2	1	0.34	-4	80
MF310-112-2-4	E113176-1	2	0.34	-4	80
MF310-112-3-4	E100012-3	3	0.34	-4	80
MF310-112-6-4	E100012-4	6	0.34	-4	80
MF310-112-10-4	E100012-5	10	0.34	-4	80
MF310-122-1-4	E100012-6	1	0.34	-4	80
MF310-122-2-4	E113177-1	2	0.34	-4	80
MF310-122-3-4	E100012-7	3	0.34	-4	80
MF310-122-6-4	E100012-8	6	0.34	-4	80
MF310-122-10-4	E100012-9	10	0.34	-4	80
MF310-512-1-4	E113175-1	1	0.34	-4	80
MF310-512-2-4	E113178-1	2	0.34	-4	80
MF310-512-3-4	E113179-1	3	0.34	-4	80
MF310-512-6-4	E113180-1	6	0.34	-4	80
MF310-512-10-4	E113181-1	10	0.34	-4	80
MF310-522-1-4	E113182-1	1	0.34	-4	80
MF310-522-2-4	E113183-1	2	0.34	-4	80
MF310-522-3-4	E113184-1	3	0.34	-4	80
MF310-522-6-4	E113185-1	6	0.34	-4	80
MF310-522-10-4	E113186-1	10	0.34	-4	80

Safety Version : High Performance					
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Output Termination 	Min.Weight (g)
MF310-112S-1-4	E113191-1	1	0.16	-4	80
MF310-112S-2-4	E113192-1	2	0.16	-4	80
MF310-112S-3-4	E113193-1	3	0.16	-4	80
MF310-112S-6-4	E113194-1	6	0.16	-4	80
MF310-112S-10-4	E113195-1	10	0.16	-4	80
MF310-122S-1-4	E113196-1	1	0.16	-4	80
MF310-122S-2-4	E113197-1	2	0.16	-4	80
MF310-122S-3-4	E113198-1	3	0.16	-4	80
MF310-122S-6-4	E113199-1	6	0.16	-4	80
MF310-122S-10-4	E113200-1	10	0.16	-4	80
MF310-512S-1-4	E113201-1	1	0.16	-4	80
MF310-512S-2-4	E113202-1	2	0.16	-4	80
MF310-512S-3-4	E113315-1	3	0.16	-4	80
MF310-512S-6-4	E113316-1	6	0.16	-4	80
MF310-512S-10-4	E113317-1	10	0.16	-4	80
MF310-522S-1-4	E113318-1	1	0.16	-4	80
MF310-522S-2-4	E113319-1	2	0.16	-4	80
MF310-522S-3-4	E113320-1	3	0.16	-4	80
MF310-522S-6-4	E113321-1	6	0.16	-4	80
MF310-522S-10-4	E113322-1	10	0.16	-4	80

Medical Version : High Performance					
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Output Termination 	Min.Weight (g)
MF310-112M-1-4	E101034-2	1	0	-4	80
MF310-112M-2-4	E113187-1	2	0	-4	80
MF310-112M-3-4	E101034-3	3	0	-4	80
MF310-112M-6-4	E101034-4	6	0	-4	80
MF310-112M-10-4	E101034-5	10	0	-4	80
MF310-122M-1-4	E101035-2	1	0	-4	80
MF310-122M-2-4	E113188-1	2	0	-4	80
MF310-122M-3-4	E101035-3	3	0	-4	80
MF310-122M-6-4	E101035-4	6	0	-4	80
MF310-122M-10-4	E101035-5	10	0	-4	80
MF310-512M-1-4	E113189-1	1	0	-4	80
MF310-512M-2-4	E113190-1	2	0	-4	80
MF310-512M-3-4	E113323-1	3	0	-4	80
MF310-512M-6-4	E113324-1	6	0	-4	80
MF310-512M-10-4	E113325-1	10	0	-4	80
MF310-522M-1-4	E113326-1	1	0	-4	80
MF310-522M-2-4	E113327-1	2	0	-4	80
MF310-522M-3-4	E113328-1	3	0	-4	80
MF310-522M-6-4	E113329-1	6	0	-4	80
MF310-522M-10-4	E113330-1	10	0	-4	80

Standard Version : Very High Performance					
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Output Termination 	Min.Weight (g)
MF310-113-1-4	E113331-1	1	0.34	-4	80
MF310-113-2-4	E113332-1	2	0.34	-4	80
MF310-113-3-4	E113333-1	3	0.34	-4	80
MF310-113-6-4	E113334-1	6	0.34	-4	80
MF310-113-10-4	E113351-1	10	0.34	-4	80
MF310-123-1-4	E113352-1	1	0.34	-4	80
MF310-123-2-4	E113353-1	2	0.34	-4	80
MF310-123-3-4	E113354-1	3	0.34	-4	80
MF310-123-6-4	E117915-1	6	0.34	-4	80
MF310-123-10-4	E117914-1	10	0.34	-4	80
MF310-513-1-4	E113357-1	1	0.34	-4	80
MF310-513-2-4	E113358-1	2	0.34	-4	80
MF310-513-3-4	E113359-1	3	0.34	-4	80
MF310-513-6-4	E113360-1	6	0.34	-4	80
MF310-513-10-4	E113361-1	10	0.34	-4	80
MF310-523-1-4	E113362-1	1	0.34	-4	80
MF310-523-2-4	E113363-1	2	0.34	-4	80
MF310-523-3-4	E113364-1	3	0.34	-4	80
MF310-523-6-4	E117905-1	6	0.34	-4	80
MF310-523-10-4	E117903-1	10	0.34	-4	80

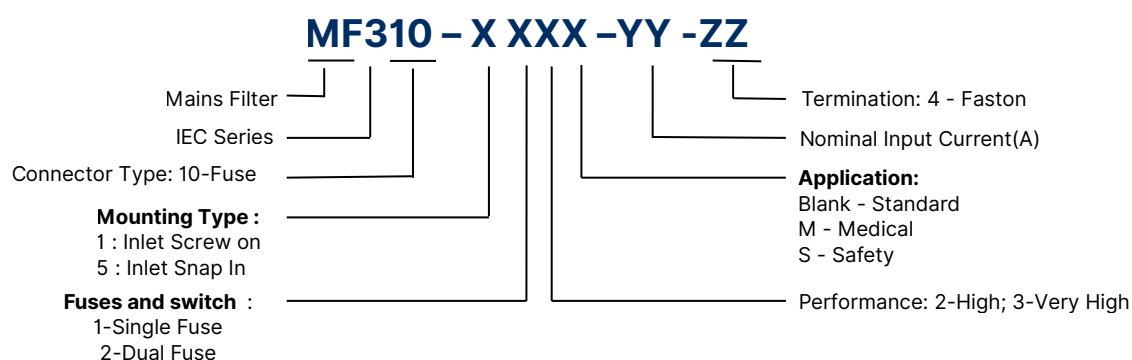
Safety Version: Very High Performance					
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Output Termination 	Min.Weight (g)
MF310-113S-1-4	E113335-1	1	0.16	-4	80
MF310-113S-2-4	E113336-1	2	0.16	-4	80
MF310-113S-3-4	E113337-1	3	0.16	-4	80
MF310-113S-6-4	E113338-1	6	0.16	-4	80
MF310-113S-10-4	E113339-1	10	0.16	-4	80
MF310-123S-1-4	E113340-1	1	0.16	-4	80
MF310-123S-2-4	E113341-1	2	0.16	-4	80
MF310-123S-3-4	E113342-1	3	0.16	-4	80
MF310-123S-6-4	E113343-1	6	0.16	-4	80
MF310-123S-10-4	E113344-1	10	0.16	-4	80
MF310-513S-1-4	E113345-1	1	0.16	-4	80
MF310-513S-2-4	E113346-1	2	0.16	-4	80
MF310-513S-3-4	E113347-1	3	0.16	-4	80
MF310-513S-6-4	E113348-1	6	0.16	-4	80
MF310-513S-10-4	E113349-1	10	0.16	-4	80
MF310-523S-1-4	E113350-1	1	0.16	-4	80
MF310-523S-2-4	E117904-1	2	0.16	-4	80
MF310-523S-3-4	E117900-1	3	0.16	-4	80
MF310-523S-6-4	E117902-1	6	0.16	-4	80
MF310-523S-10-4	E117901-1	10	0.16	-4	80

Medical Version :Very High Performance					
Model Number	Part Number	Current Rating @40°C(A)	Leakage Current @250 VAC/50Hz (mA)	Output Termination 	Min.Weight (g)
MF310-113M-1-4	E113355-1	1	0	-4	80
MF310-113M-2-4	E113356-1	2	0	-4	80
MF310-113M-3-4	E117912-1	3	0	-4	80
MF310-113M-6-4	E117908-1	6	0	-4	80
MF310-113M-10-4	E117907-1	10	0	-4	80
MF310-123M-1-4	E117910-1	1	0	-4	80
MF310-123M-2-4	E117906-1	2	0	-4	80
MF310-123M-3-4	E117911-1	3	0	-4	80
MF310-123M-6-4	E117913-1	6	0	-4	80
MF310-123M-10-4	E117909-1	10	0	-4	80
MF310-513M-1-4	E113365-1	1	0	-4	80
MF310-513M-2-4	E113366-1	2	0	-4	80
MF310-513M-3-4	E113367-1	3	0	-4	80
MF310-513M-6-4	E113368-1	6	0	-4	80
MF310-513M-10-4	E113369-1	10	0	-4	80
MF310-523M-1-4	E113370-1	1	0	-4	80
MF310-523M-2-4	E113371-1	2	0	-4	80
MF310-523M-3-4	E113372-1	3	0	-4	80
MF310-523M-6-4	E113373-1	6	0	-4	80
MF310-523M-10-4	E113374-1	10	0	-4	80

Note :

The EMI filter model MF150 Series name have been updated to MF310-XXXM-YY-ZZ.
Standardized leakage current calculation as per IEC60939 under normal operating condition.

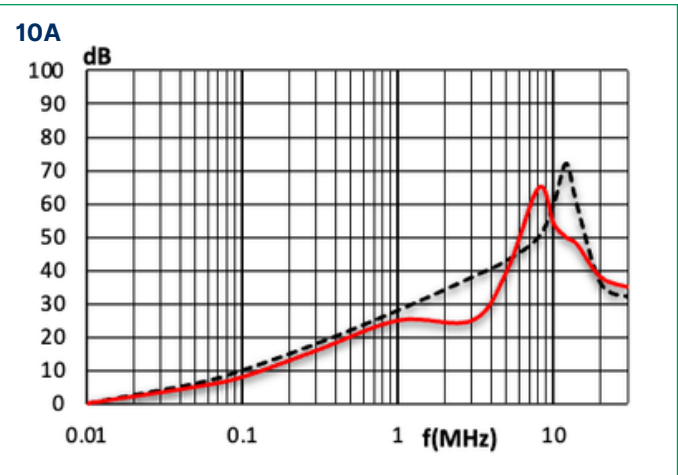
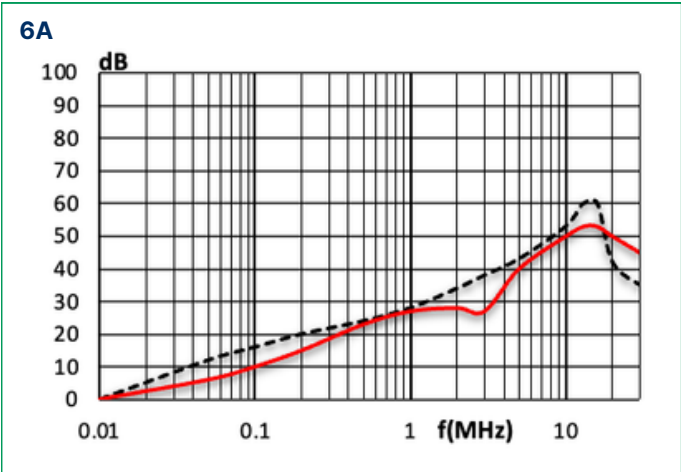
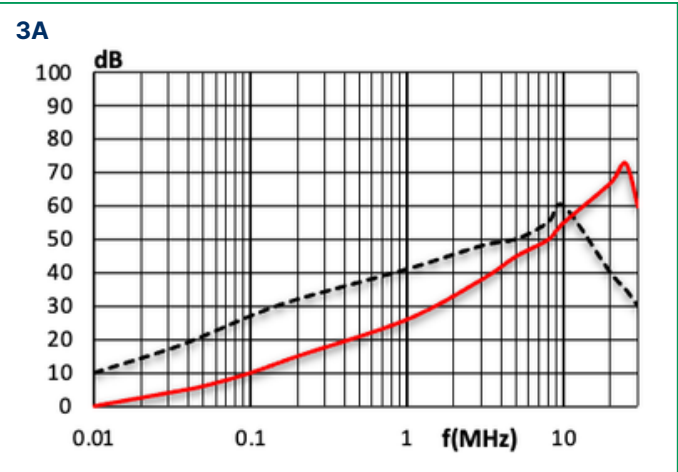
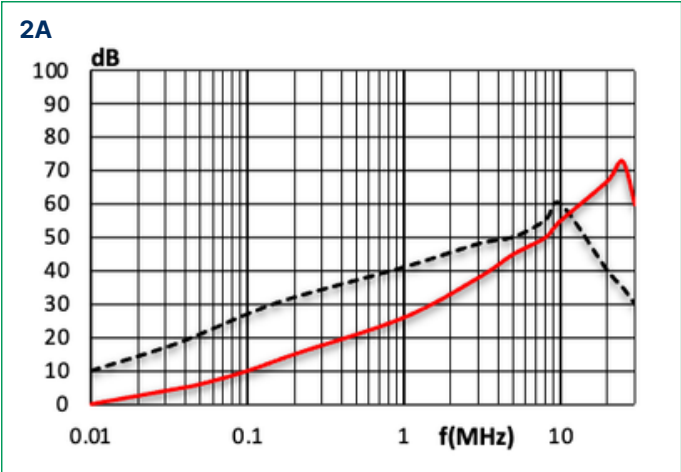
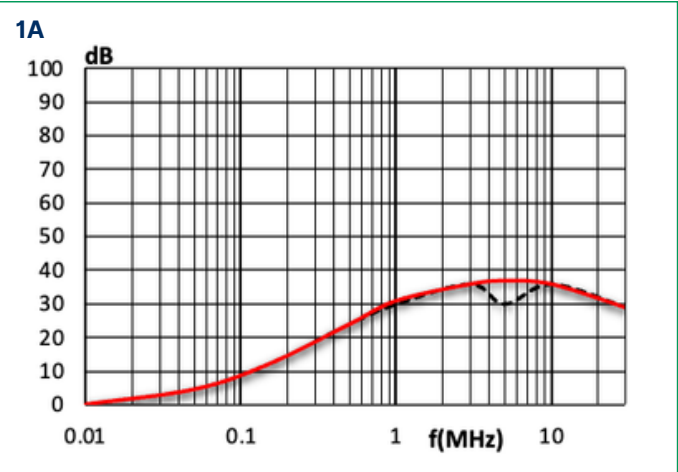
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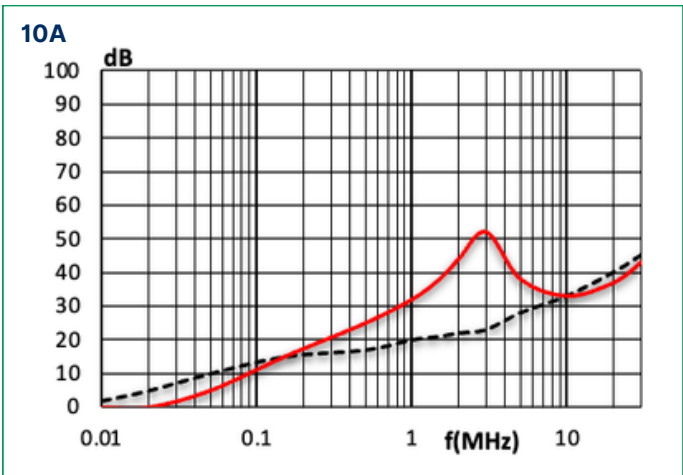
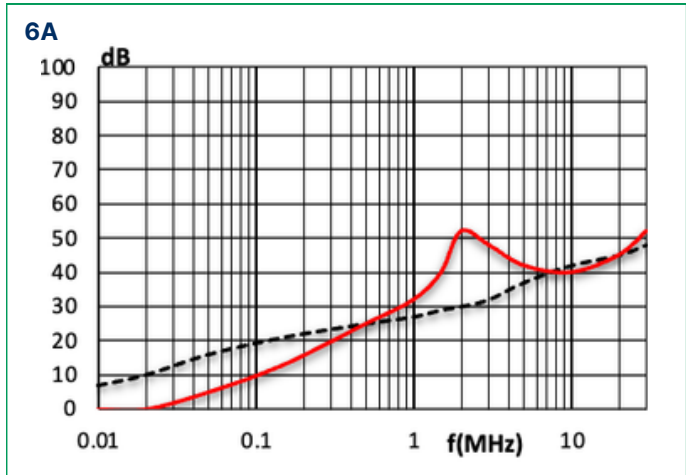
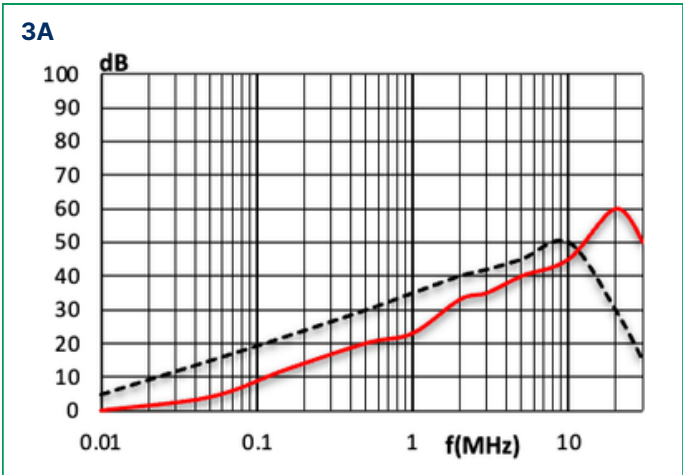
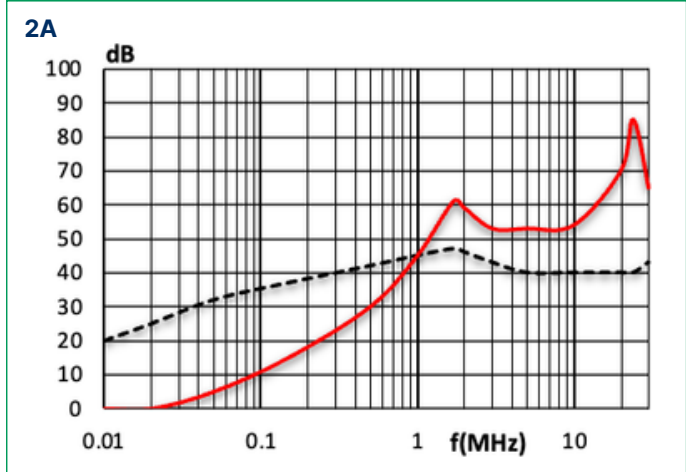
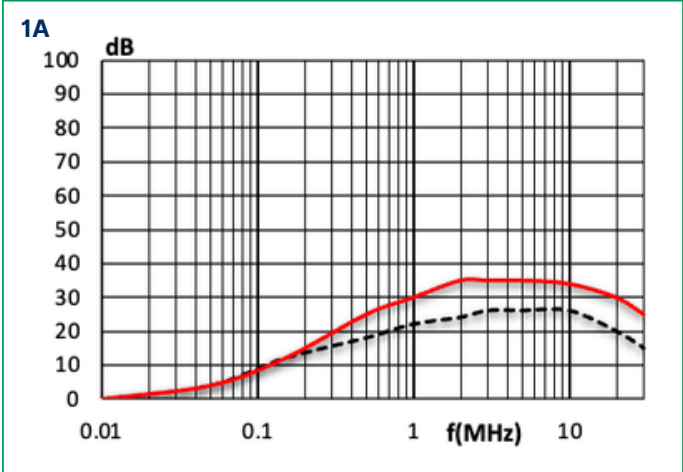


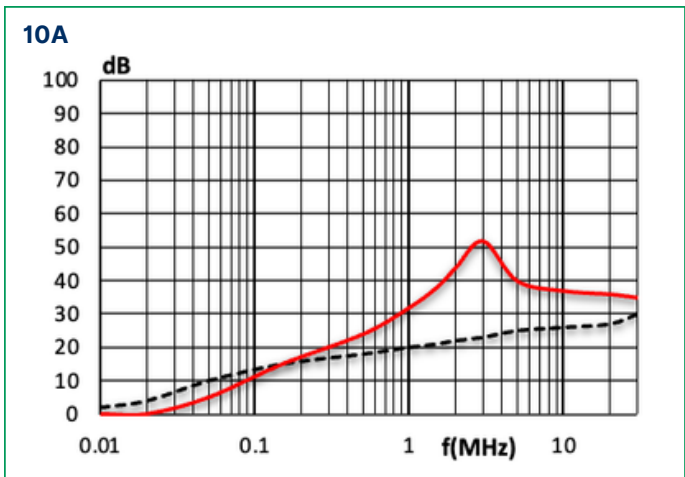
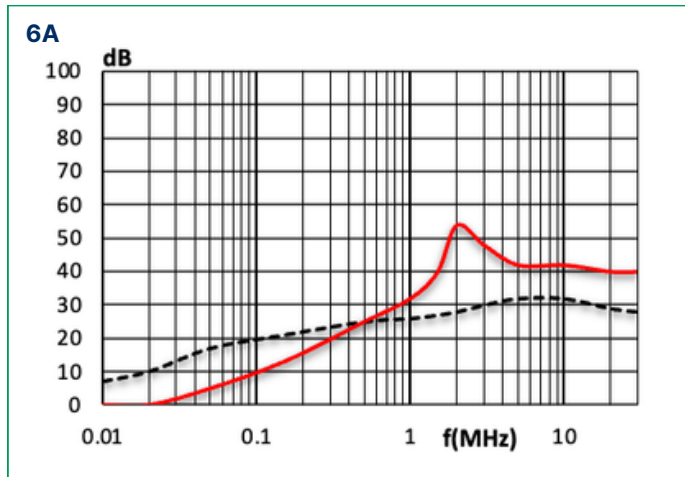
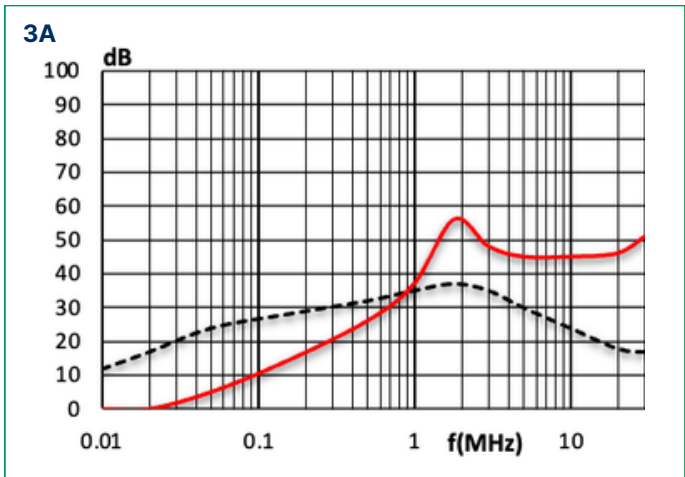
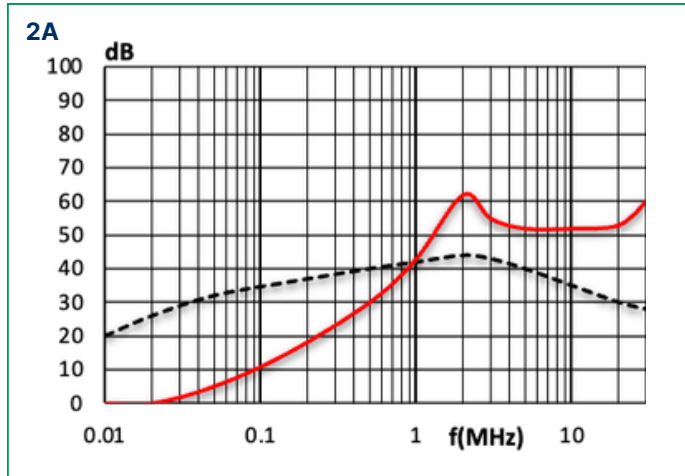
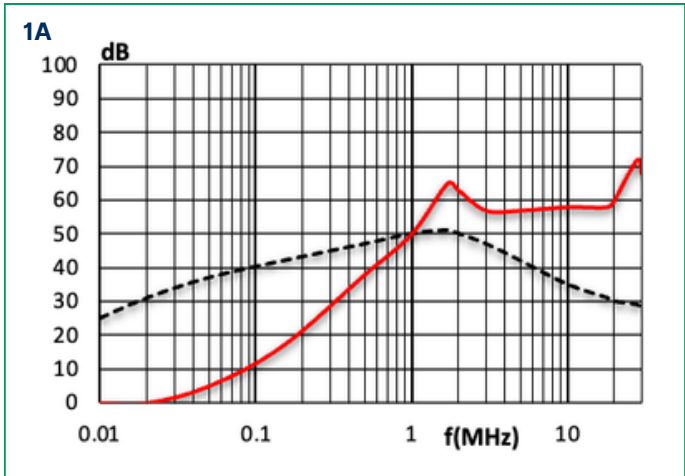
Insertion Loss: High Performance

..... Common mode ——— Differential Mode
Per CISPR 17; asym=50Ω/50Ω sym=50Ω/50Ω

Standard Version

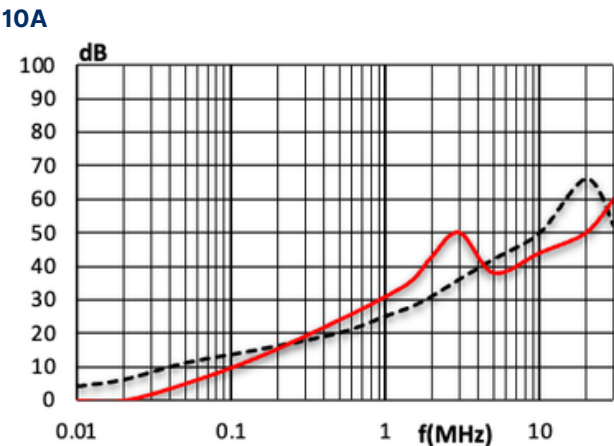
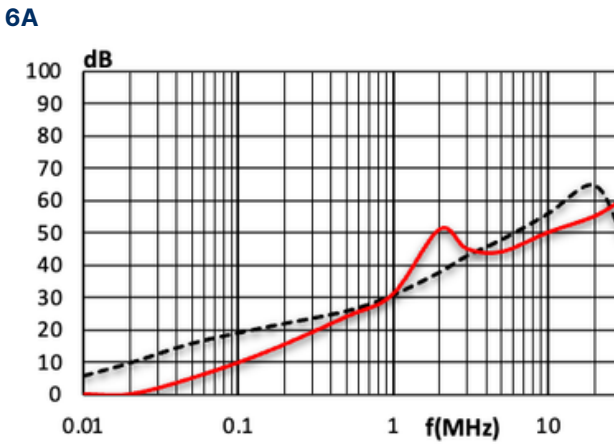
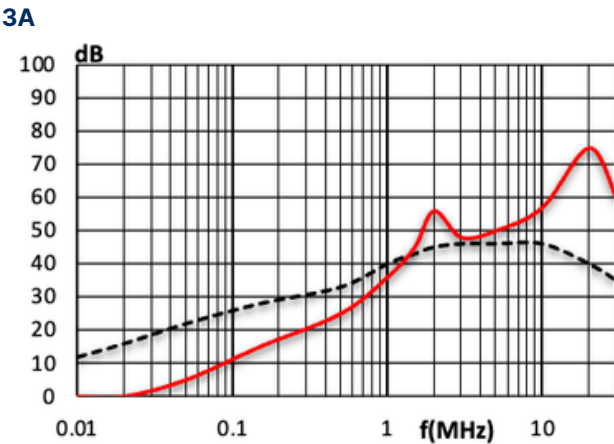
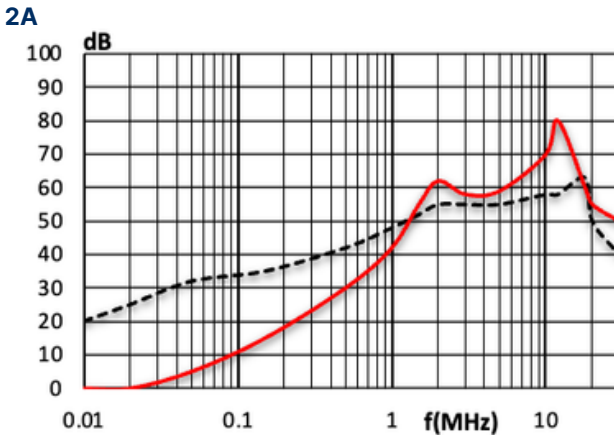
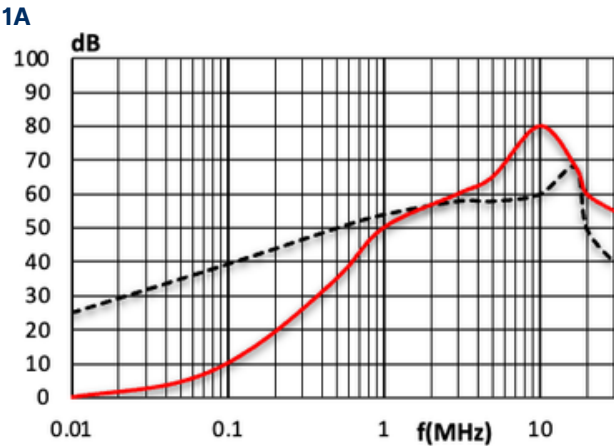


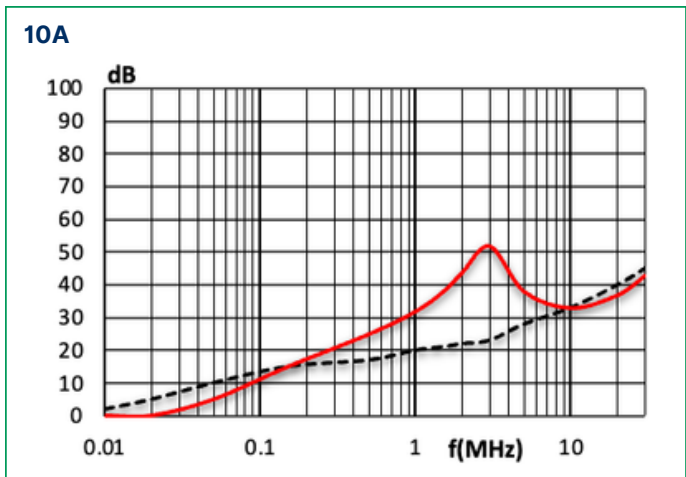
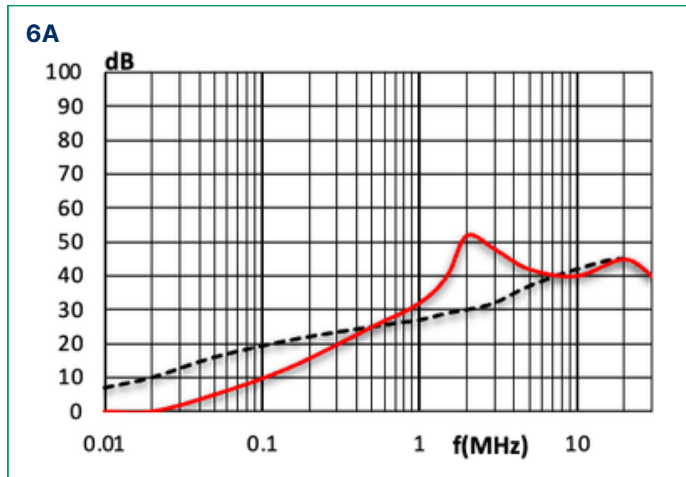
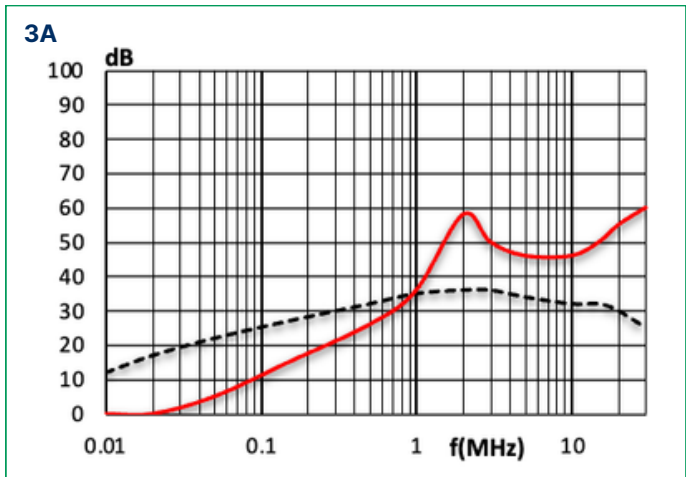
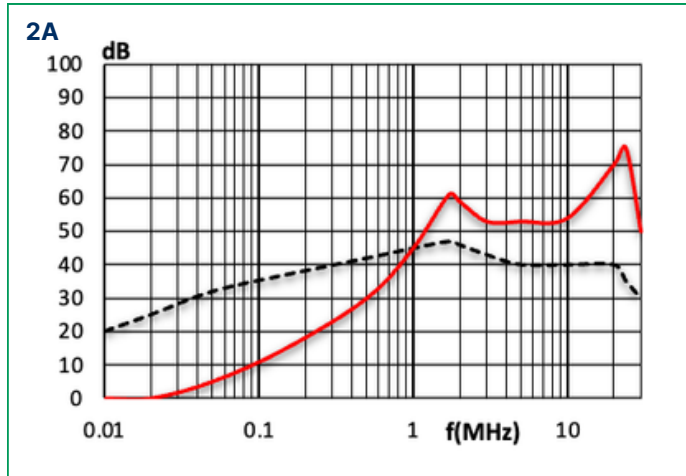
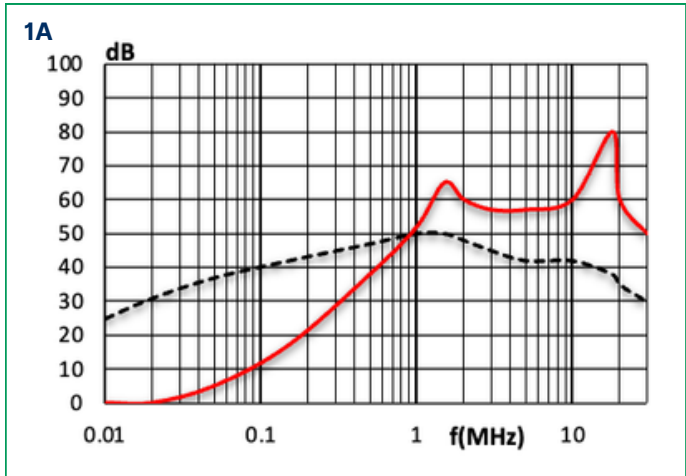


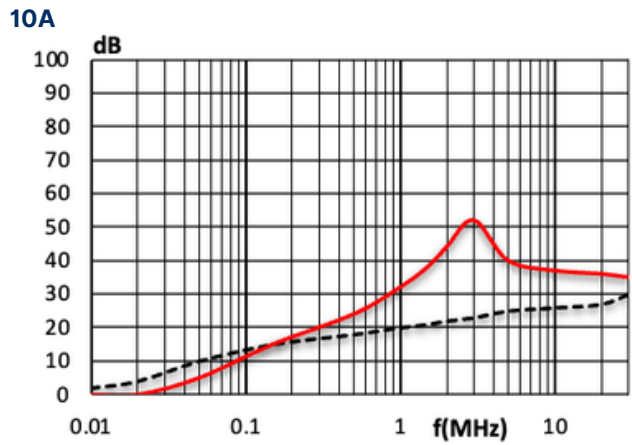
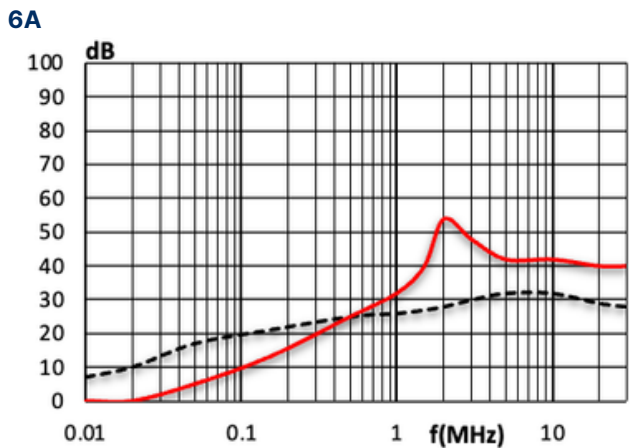
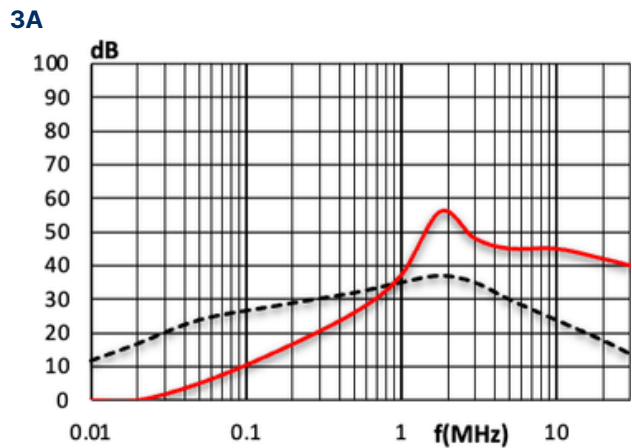
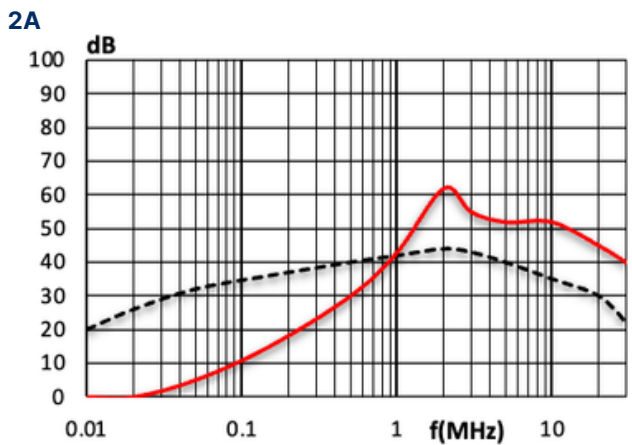
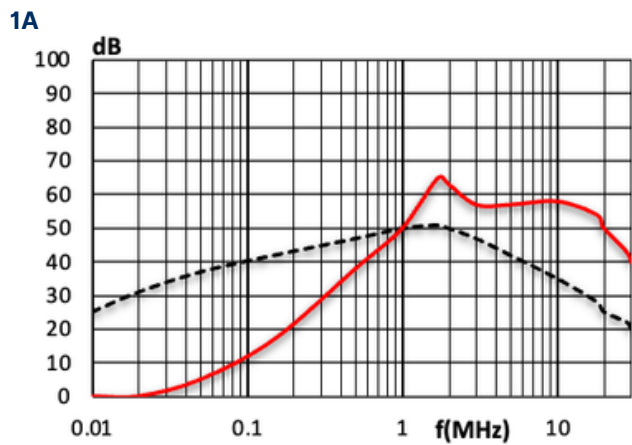


Insertion Loss: Very High Performance

Standard Version

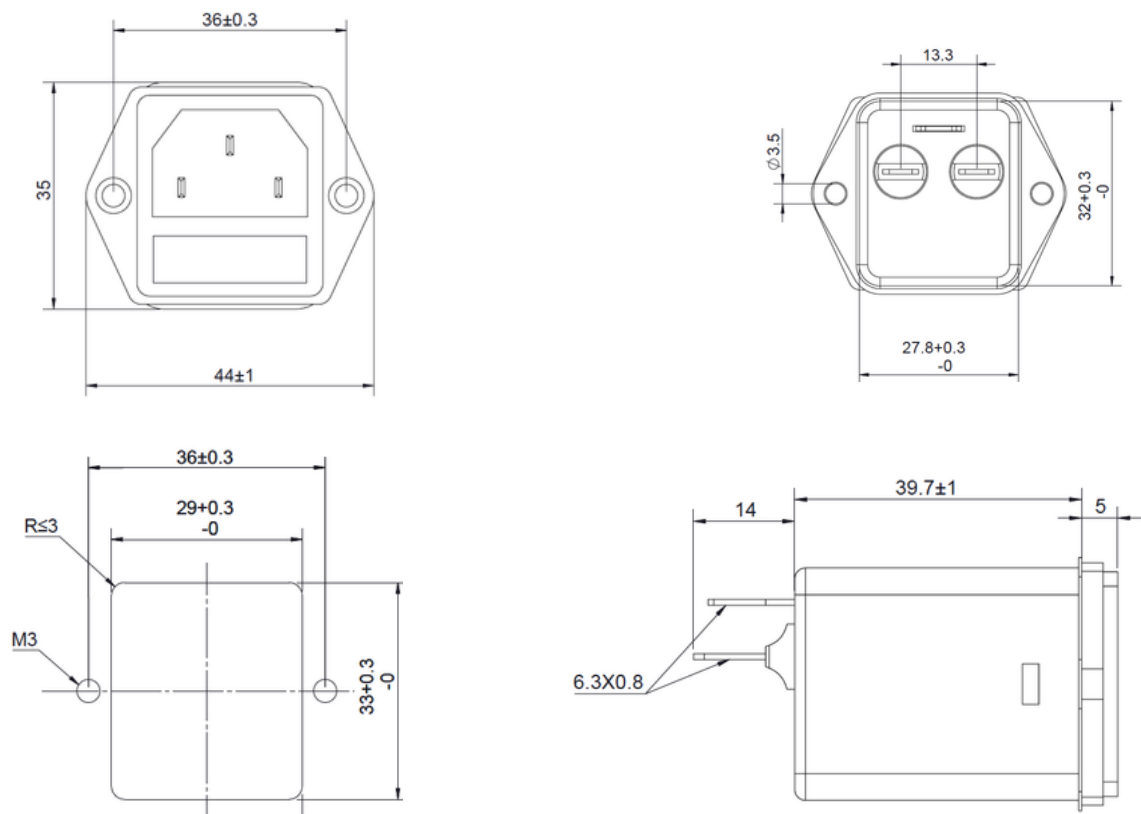




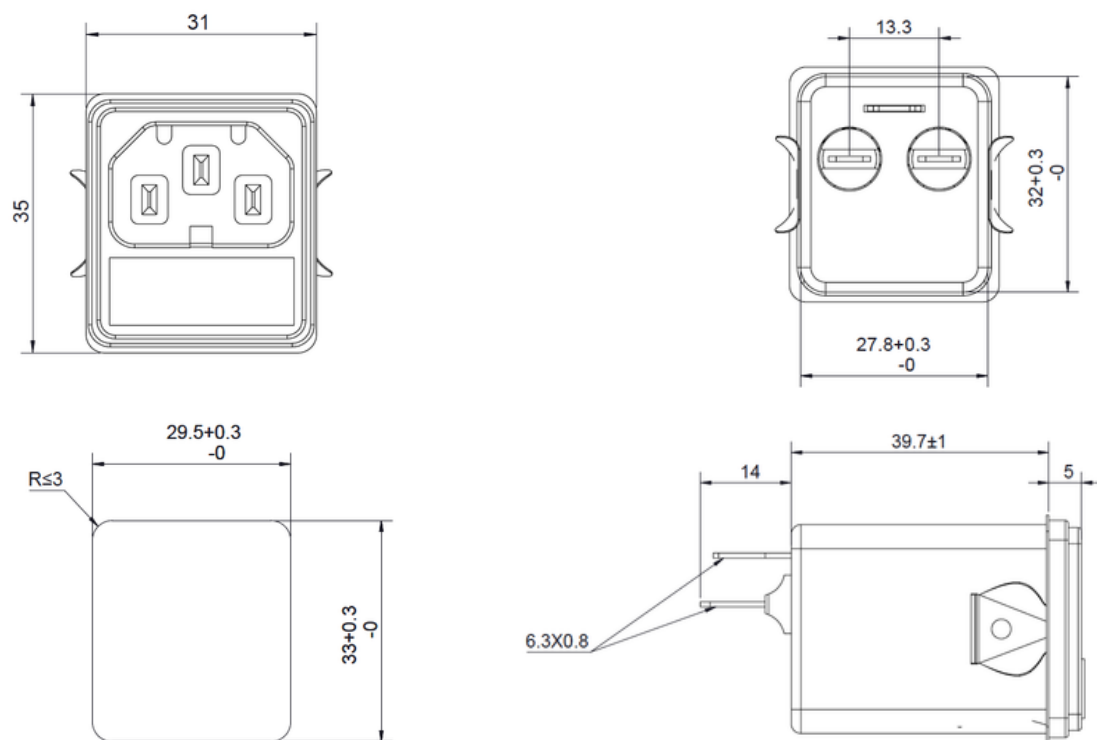


Mechanical Drawing:

Screw Mount 1A to 10A



Snap in Mount 1A to 10A



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