

AMI-2240 High Performance High Voltage DC EMI Filters for EV Charging Applications



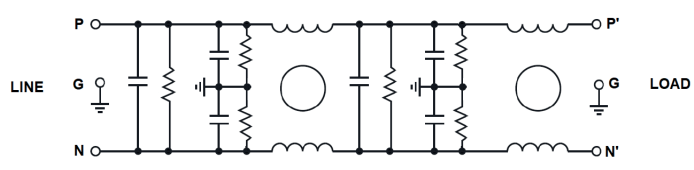
Features

- Rated current up to 1600A
- High voltage filters
- Three voltage levels (500V, 1000V, 1500V)
- Compact - Space saving-Nickel plated bus bar.

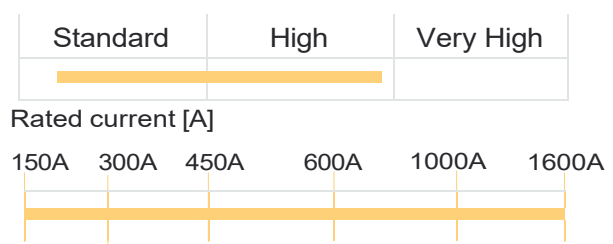
Applications

- EV DC Fast charger
- Industrial charger
- Solar
- UPS/Inverters bar.

Typical Circuit Diagram

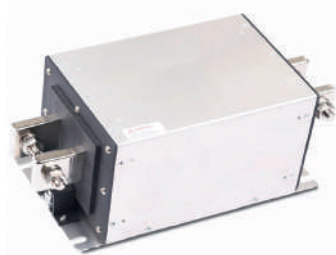


Performance Indicator



Technical Specifications

Maximum Continuous Operating Voltage	500VDC /1000VDC /1500VDC
Rated Current	150A to 1600A @55°C
High Potential test voltage: 500VDC	DC P, N - 2000 VDC for 2 Sec DC P, N to G - 2500 VDC for 2 Sec
High Potential test voltage: 1000VDC	DC P, N - 3600 VDC for 2 Sec DC P, N to G - 6000 VDC for 2 Sec
High Potential test voltage: 1500VDC	DC P, N - 3600 VDC for 2 Sec DC P, N to G - 6000 VDC for 2 Sec
Overload Capability	135% of Rated current for 15 minutes
Design Corresponding to	UL60939-3, CSA 22.2 No.8-13 and IEC 60939
Flammability corresponding to	UL 94 V-0 or better
Temperature range	-40°C to +100°C
Climatic Category	40/100/21



Certificates



Product Selector

AMI-2400 B - 600 - C10

A	500 VDC
B	1000 VDC
C	1500 VDC

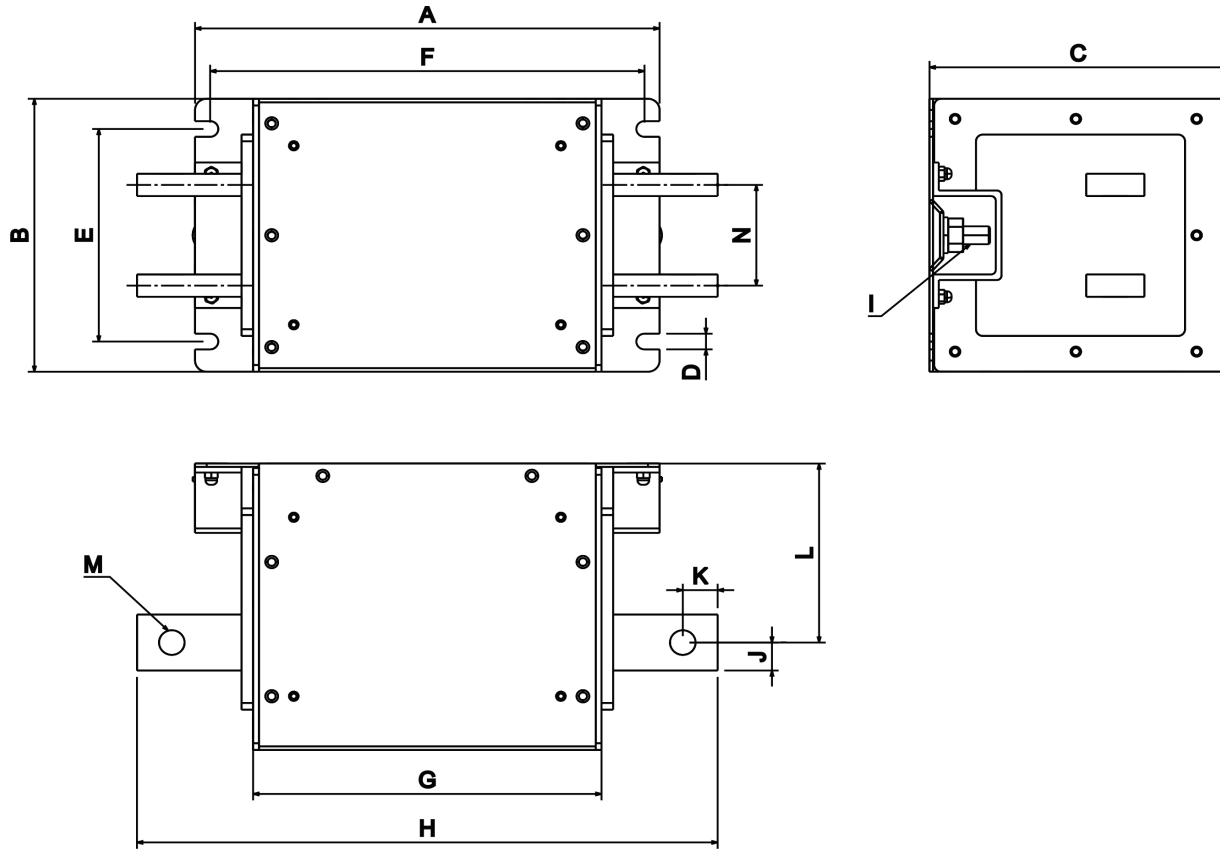
Rated Current @ 55°C

Total Capacitance to Ground	
C00	0.0 μF
C01	0.1 μF
C10	1.0 μF
C20	2.0 μF

Selection Table

Part Number (500VDC)	Part Number (1000VDC)	Part Number (1500VDC)	Rated Current @55°C	Total Capacitance to G (nF)	Busbars Cross Section (mm)
AMI-2240A-150-C00	AMI-2240B-150-C00	AMI-2240C-150-C00	150A	0	25x3
AMI-2240A-150-C01	AMI-2240B-150-C01	AMI-2240C-150-C01	150A	100	
AMI-2240A-150-C10	AMI-2240B-150-C10	AMI-2240C-150-C10	150A	1000	
AMI-2240A-150-C20	AMI-2240B-150-C20	AMI-2240C-150-C20	150A	2000	
AMI-2240A-300-C00	AMI-2240B-300-C00	AMI-2240C-300-C00	300A	0	25x5
AMI-2240A-300-C01	AMI-2240B-300-C01	AMI-2240C-300-C01	300A	100	
AMI-2240A-300-C10	AMI-2240B-300-C10	AMI-2240C-300-C10	300A	1000	
AMI-2240A-300-C20	AMI-2240B-300-C20	AMI-2240C-300-C20	300A	2000	
AMI-2240A-450-C00	AMI-2240B-450-C00	AMI-2240C-450-C00	450A	0	25x10
AMI-2240A-450-C01	AMI-2240B-450-C01	AMI-2240C-450-C01	450A	100	
AMI-2240A-450-C10	AMI-2240B-450-C10	AMI-2240C-450-C10	450A	1000	
AMI-2240A-450-C20	AMI-2240B-450-C20	AMI-2240C-450-C20	450A	2000	
AMI-2240A-600-C00	AMI-2240B-600-C00	AMI-2240C-600-C00	600A	0	25x12
AMI-2240A-600-C01	AMI-2240B-600-C01	AMI-2240C-600-C01	600A	100	
AMI-2240A-600-C10	AMI-2240B-600-C10	AMI-2240C-600-C10	600A	1000	
AMI-2240A-600-C20	AMI-2240B-600-C20	AMI-2240C-600-C20	600A	2000	
AMI-2240A-1000-C00	AMI-2240B-1000-C00	AMI-2240C-1000-C00	1000A	0	40x12
AMI-2240A-1000-C01	AMI-2240B-1000-C01	AMI-2240C-1000-C01	1000A	100	
AMI-2240A-1000-C10	AMI-2240B-1000-C10	AMI-2240C-1000-C10	1000A	1000	
AMI-2240A-1000-C20	AMI-2240B-1000-C20	AMI-2240C-1000-C20	1000A	2000	
AMI-2240A-1600-C00	AMI-2240B-1600-C00	AMI-2240C-1600-C00	1600A	0	60x12
AMI-2240A-1600-C01	AMI-2240B-1600-C01	AMI-2240C-1600-C01	1600A	100	
AMI-2240A-1600-C10	AMI-2240B-1600-C10	AMI-2240C-1600-C10	1600A	1000	
AMI-2240A-1600-C20	AMI-2240B-1600-C20	AMI-2240C-1600-C20	1600A	2000	

Dimensions (mm)



Current Rating	A	B	C	D	E	F	G	H	I	J	K	L	M	N
150A	200	122	128	7	95	187	145	245	M8	12.5	15	84	9	56
300A	200	122	128	7	95	187	145	245	M8	12.5	15	84	11	56
450A	200	122	128	7	95	187	150	250	M8	12.5	15	80	11	45
600A	200	122	128	7	95	187	150	250	M8	12.5	15	80	11	43
1000A	250	140	130	7	114	227	200	300	M8	20	15	71	11	50
1600A	270	140	130	7	114	247	220	320	M8	30	15	68	11(2)	50

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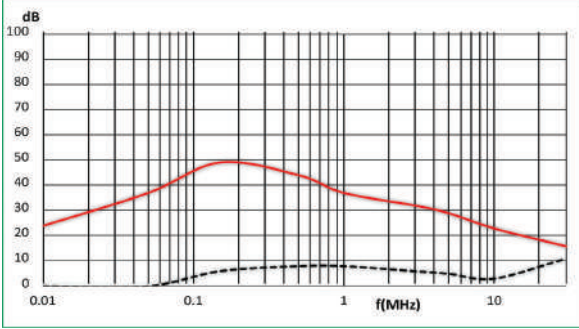


Typical Insertion Loss

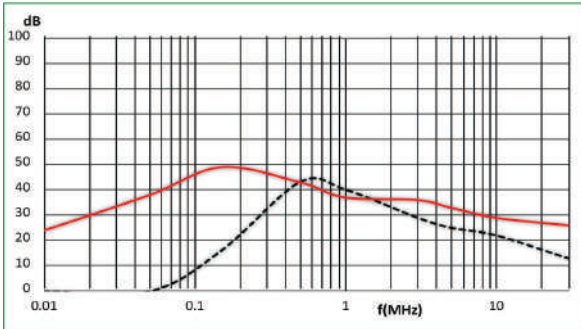
According to CISPR17 in 50 Ω system

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

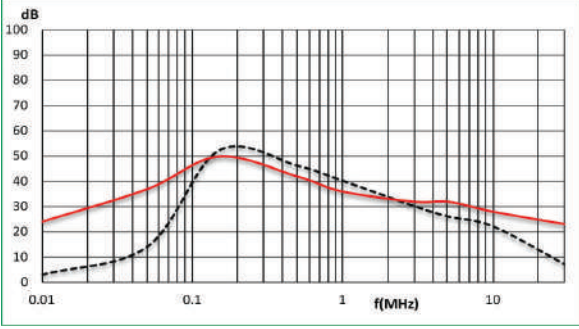
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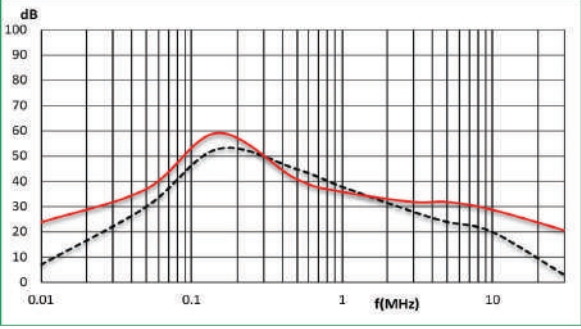
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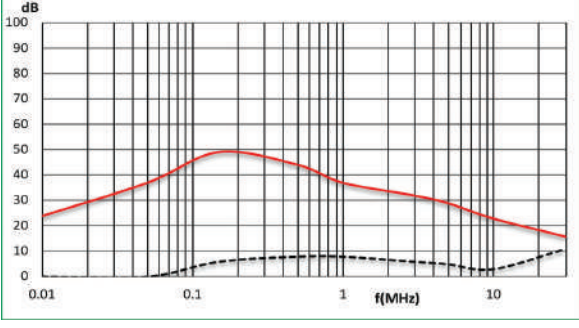
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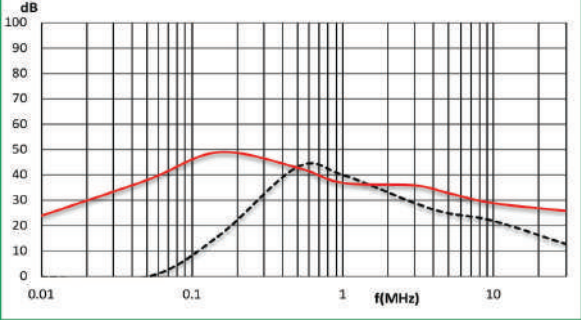
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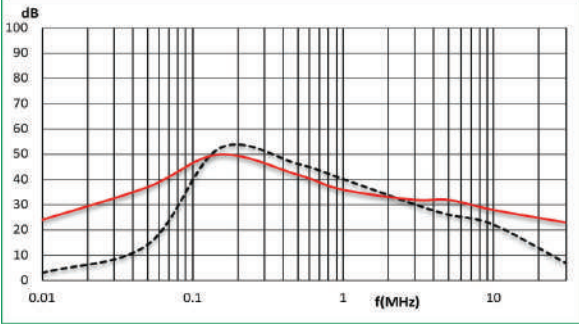
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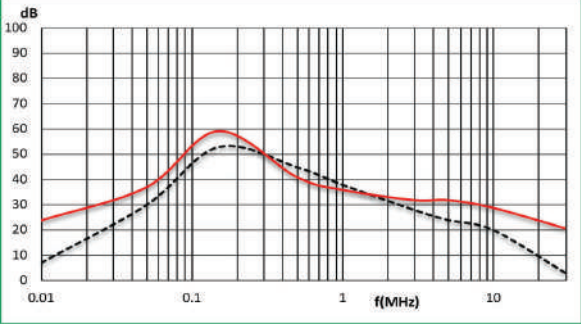
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AMI-2240B-150-C10



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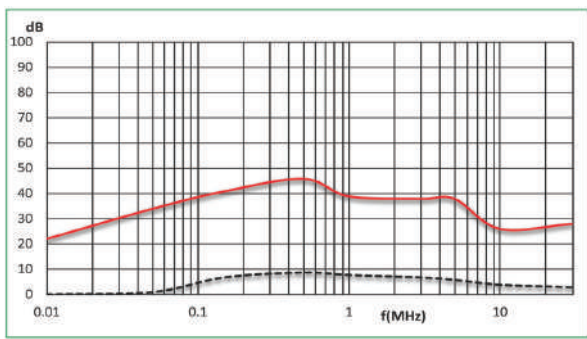


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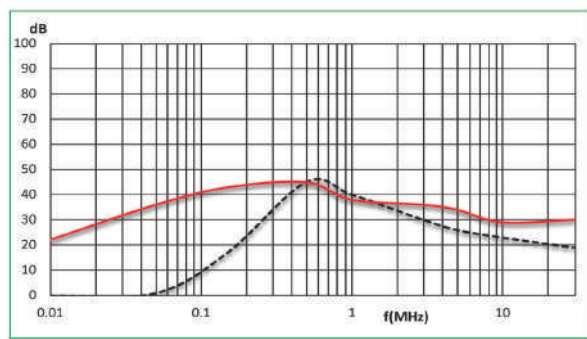
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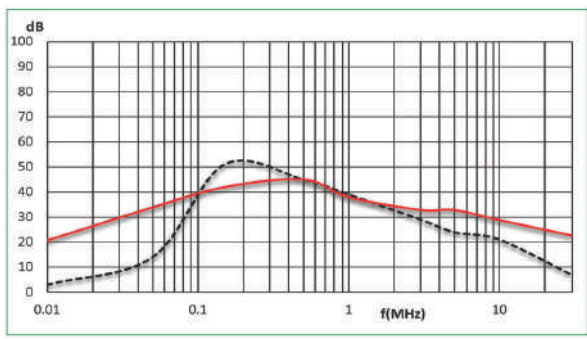
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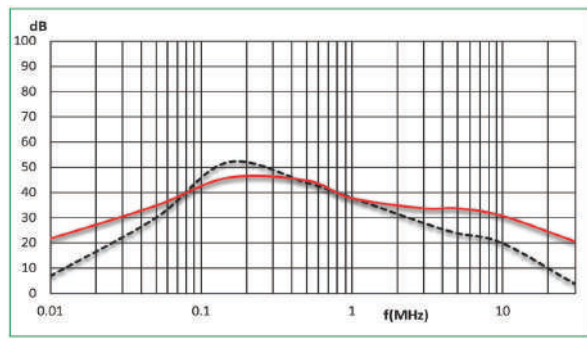
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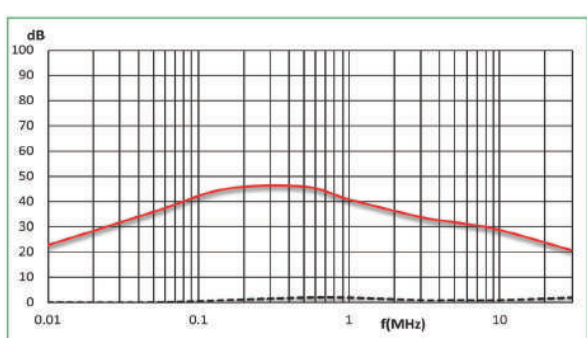
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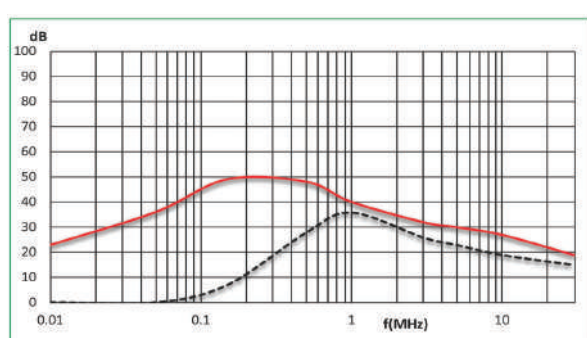
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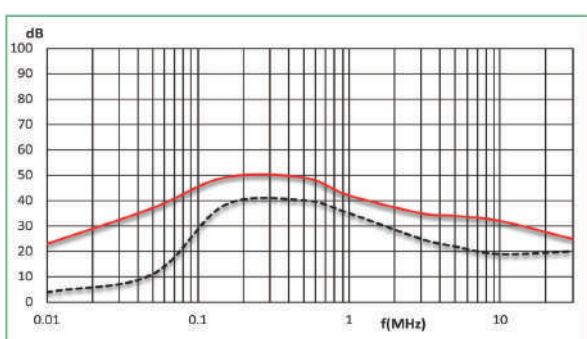
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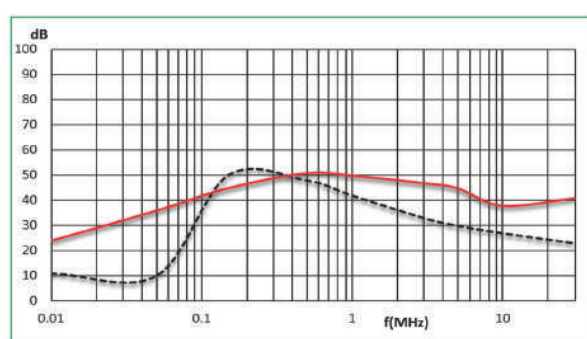
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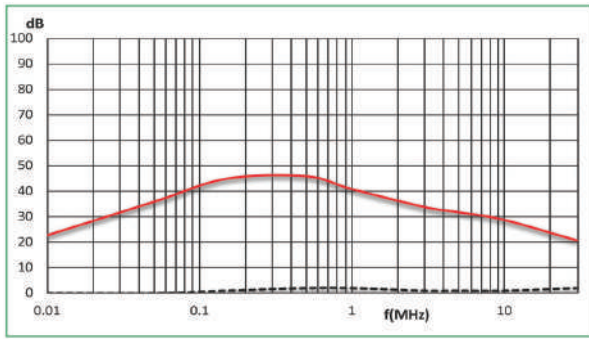


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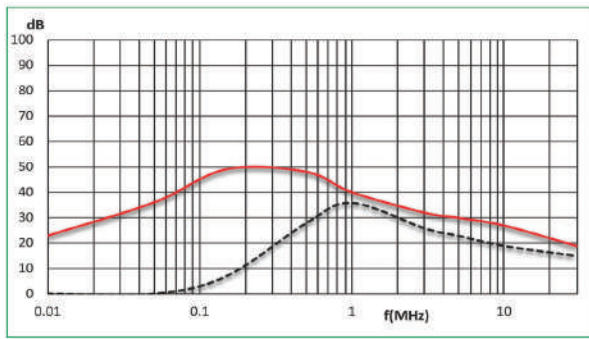
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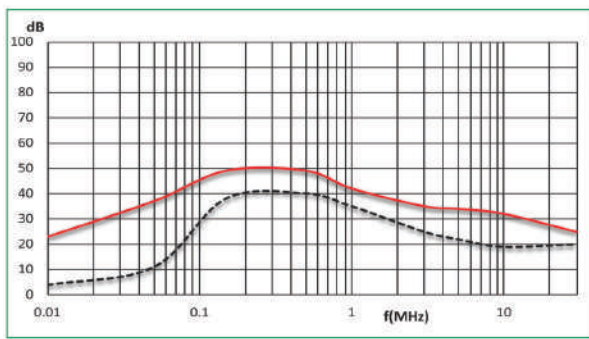
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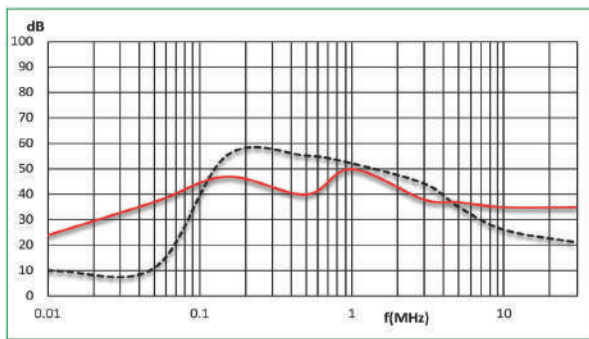
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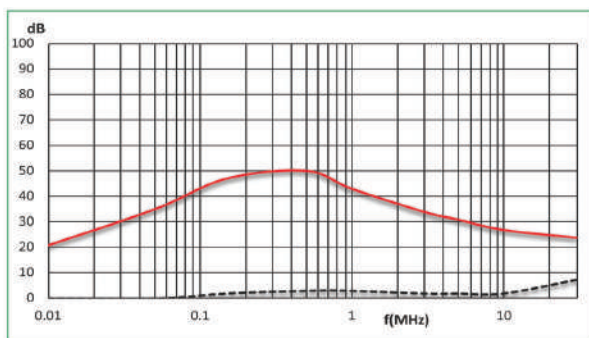
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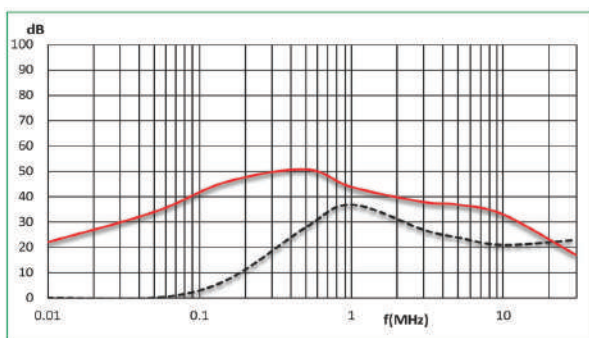
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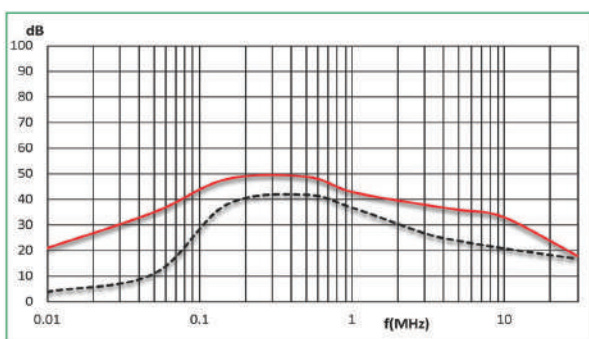
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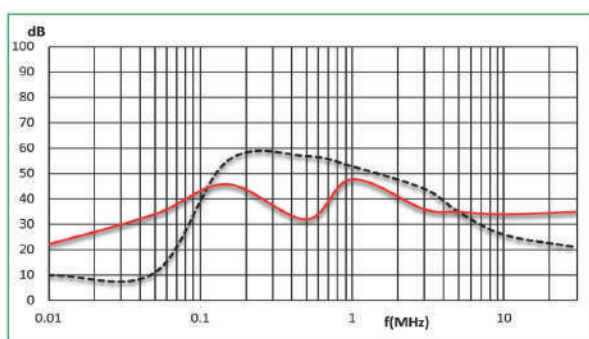
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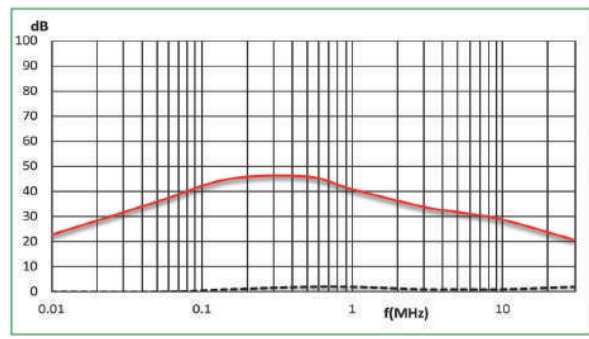


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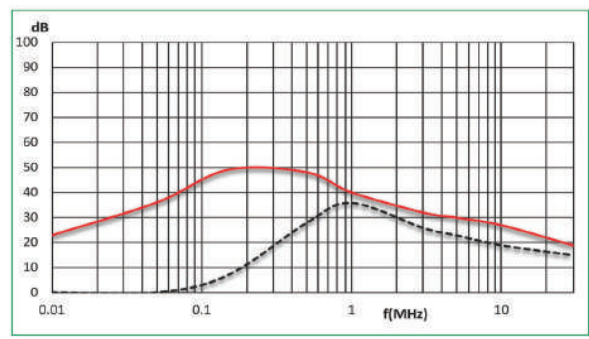
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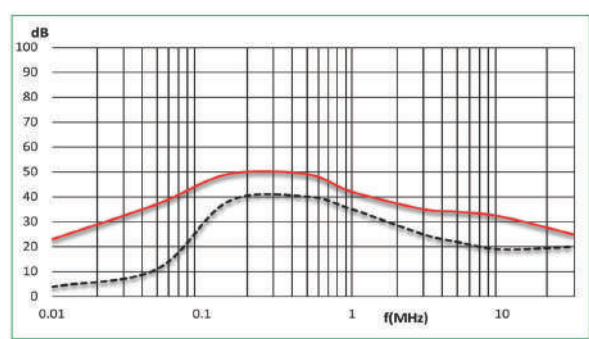
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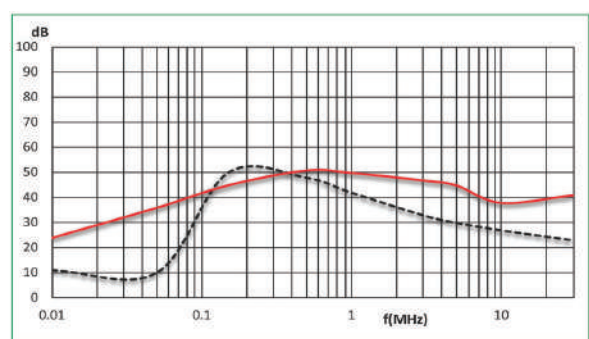
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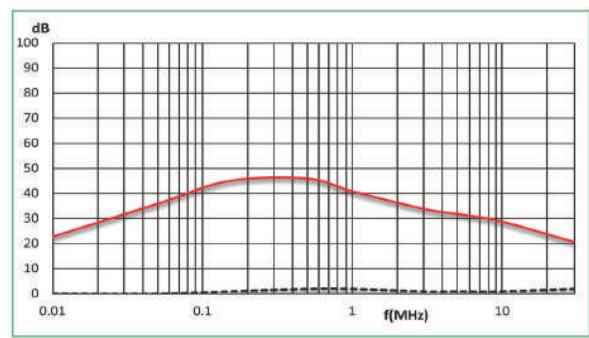
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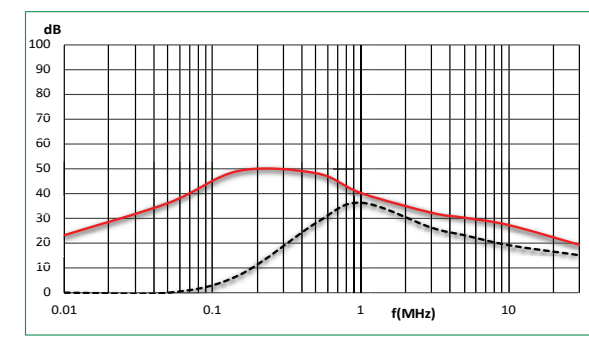
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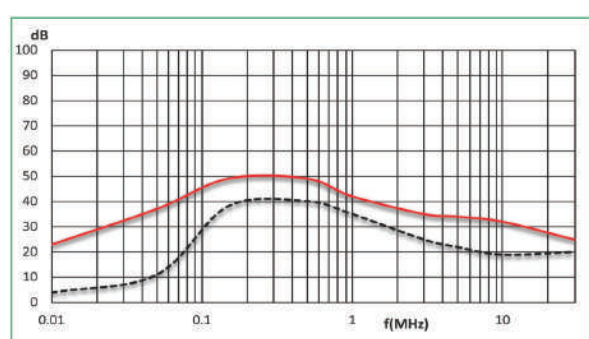
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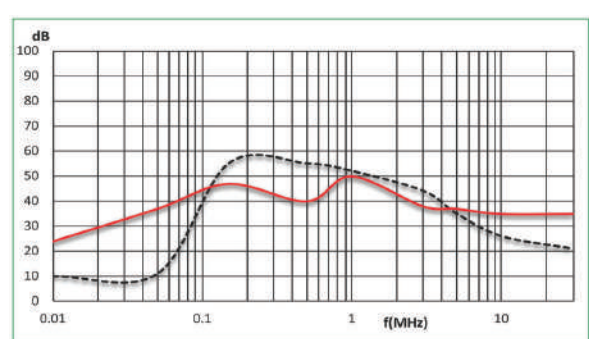
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AMI-2240 High Performance High Voltage DC EMI Filters for EV Charging Applications

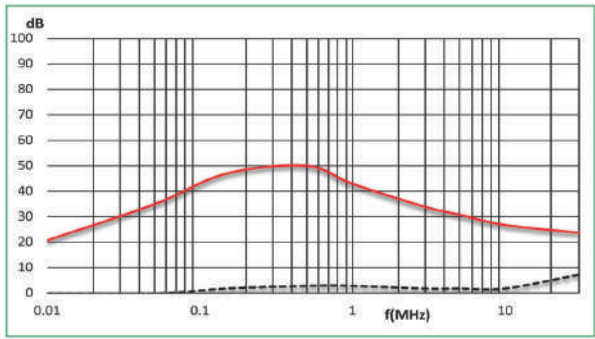


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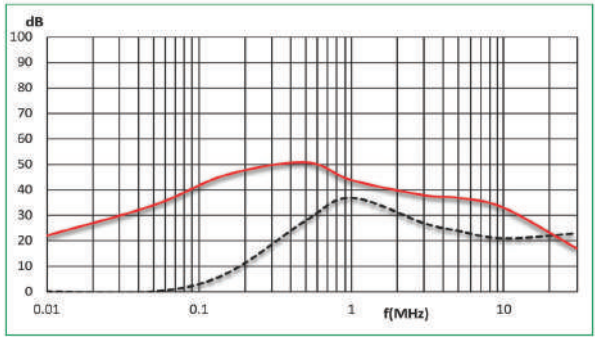
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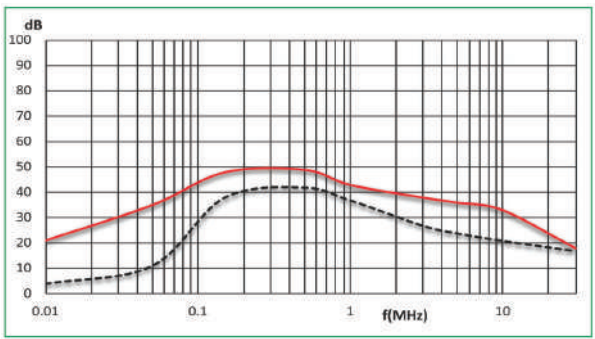
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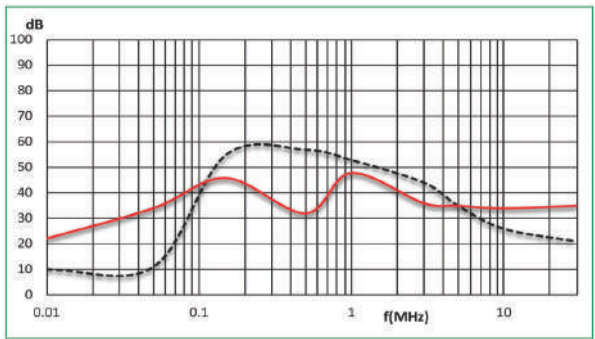
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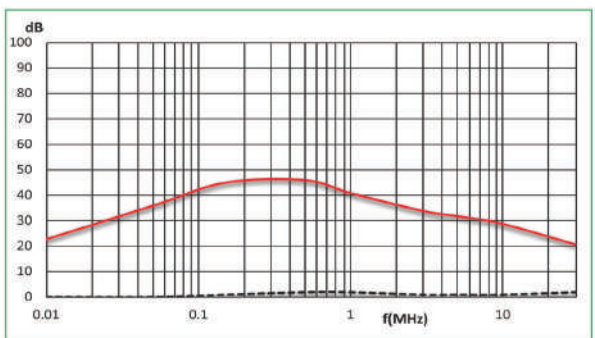
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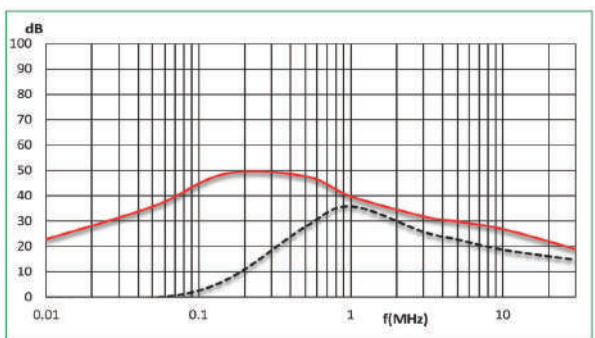
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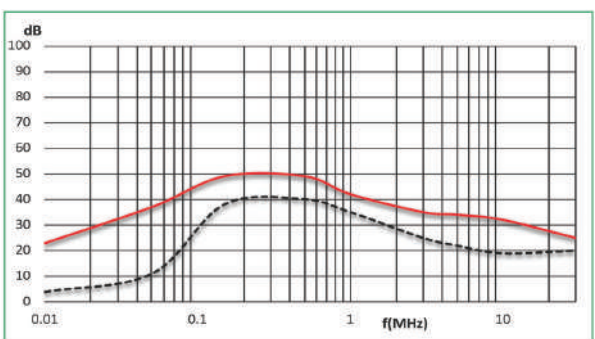
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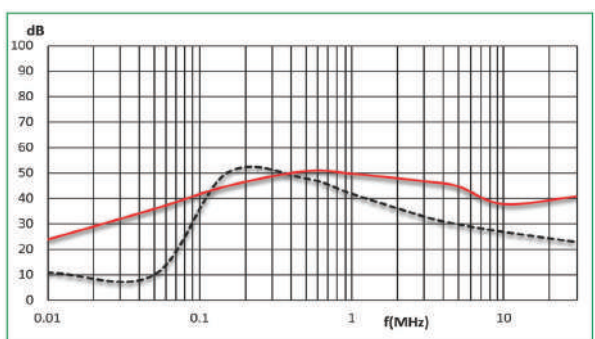
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AMI-2240A-600-C10



AMI-2240A-600-C20



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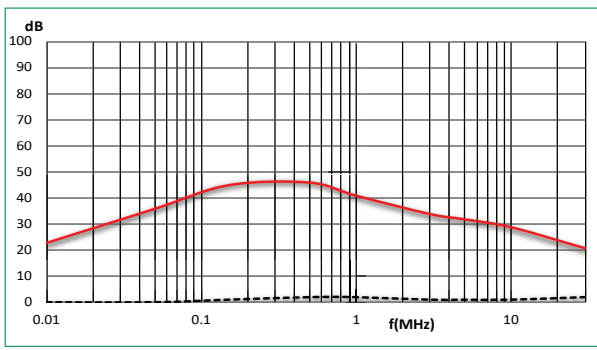


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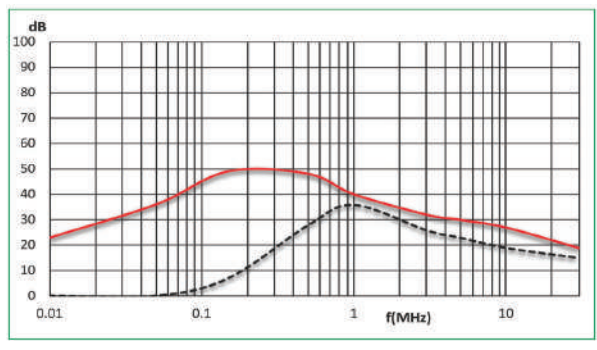
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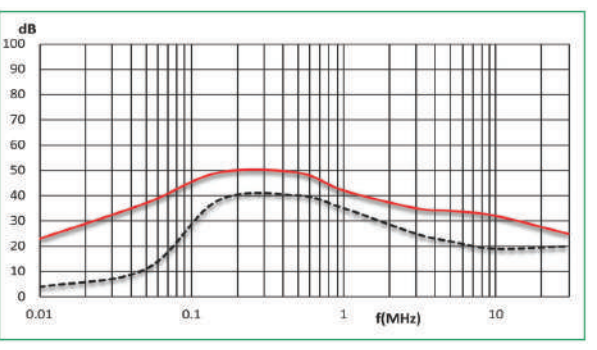
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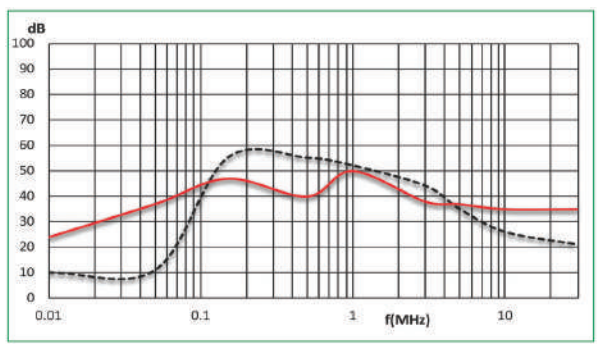
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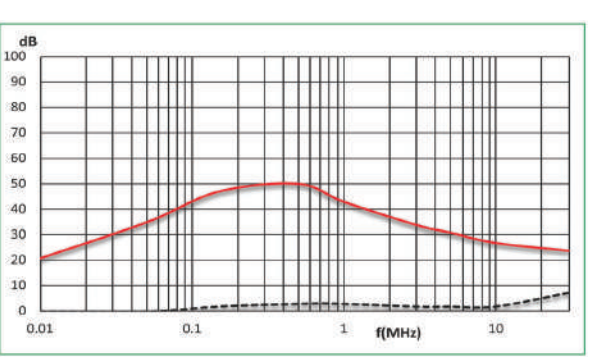
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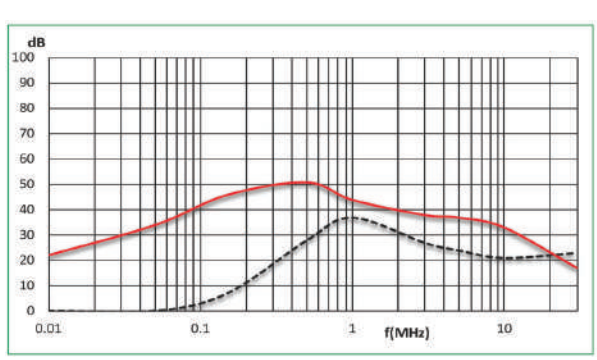
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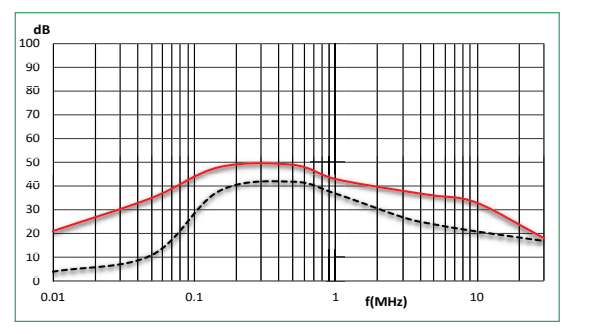
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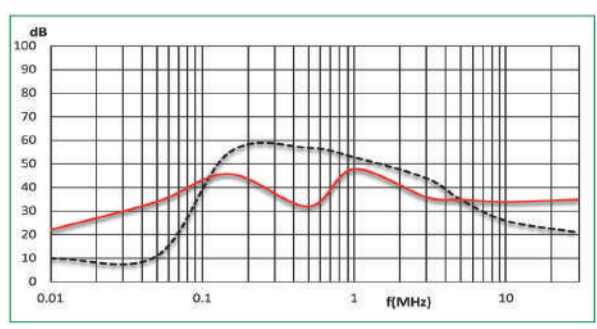
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AMI-2240C-600-C10



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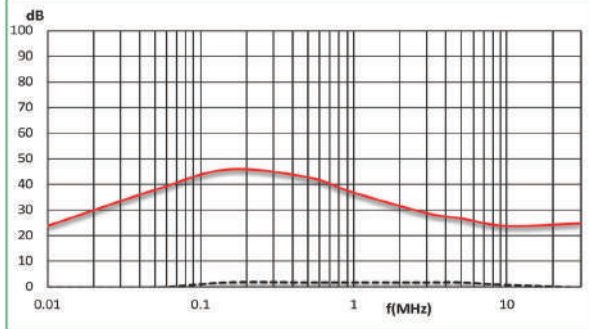


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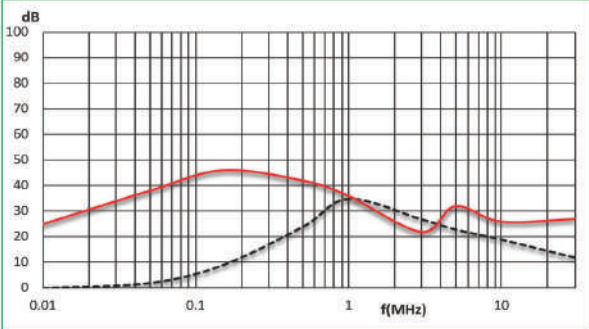
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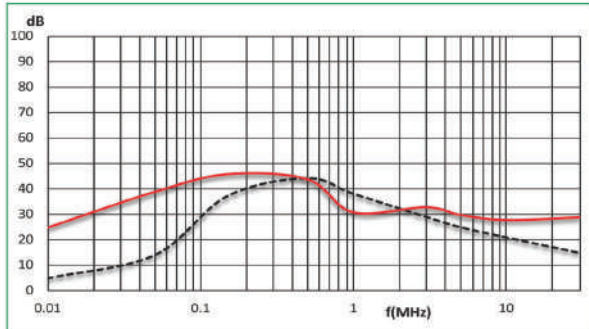
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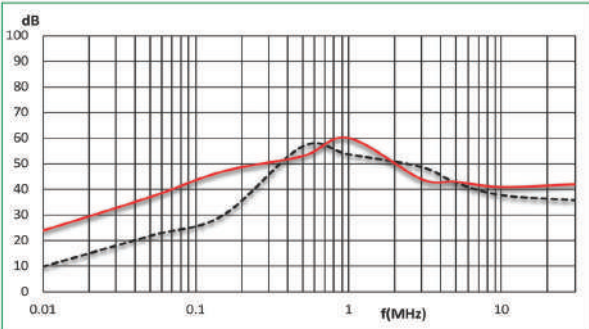
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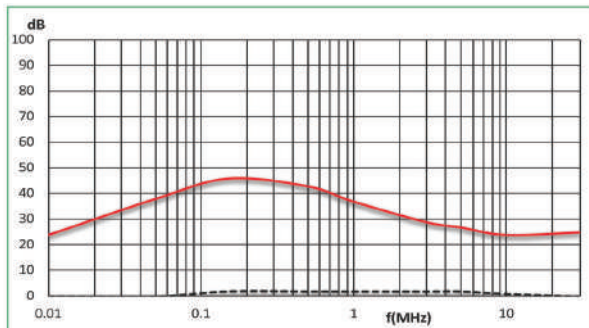
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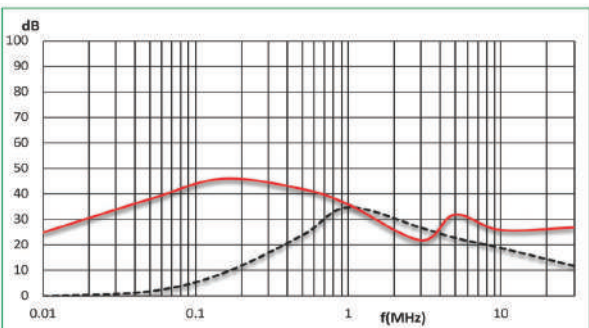
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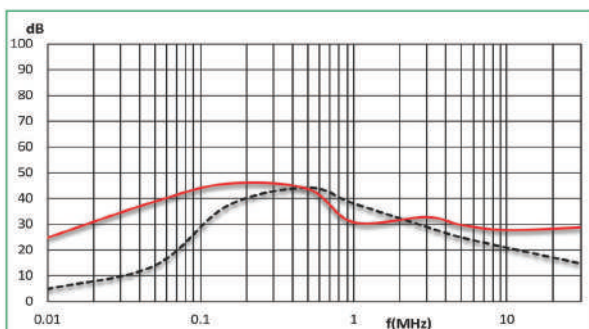
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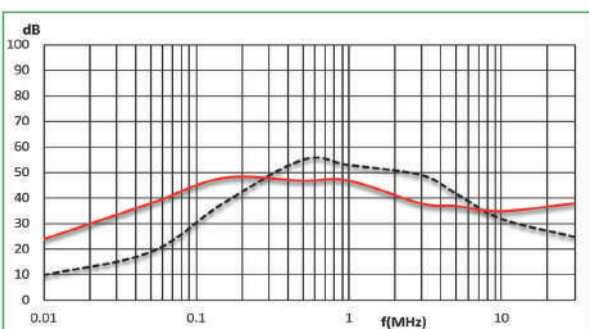
AMI-2240B-1000-C01



AMI-2240B-1000-C10



AMI-2240B-1000-C20



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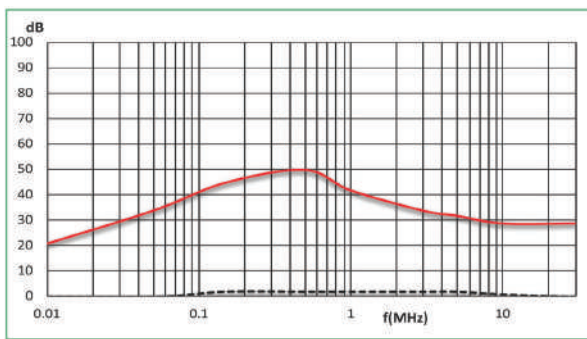


Typical Insertion Loss

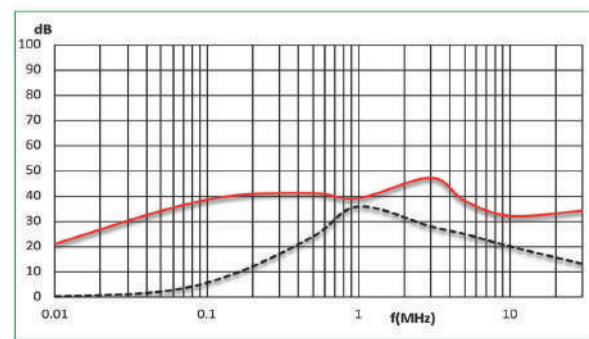
According to CISPR17 in 50 Ω system

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

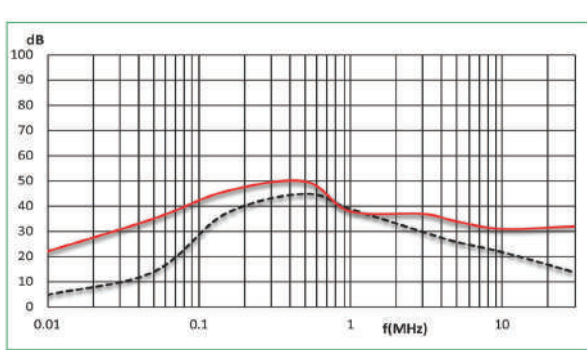
AMI-2240C-1000-C00



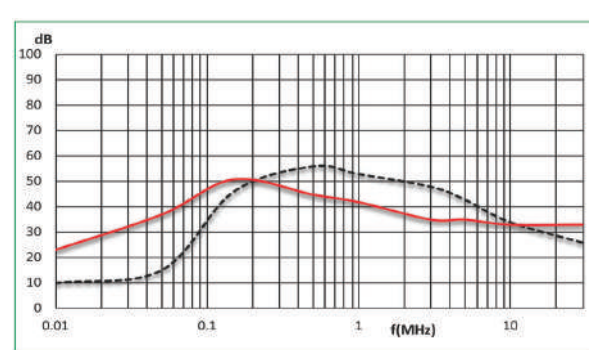
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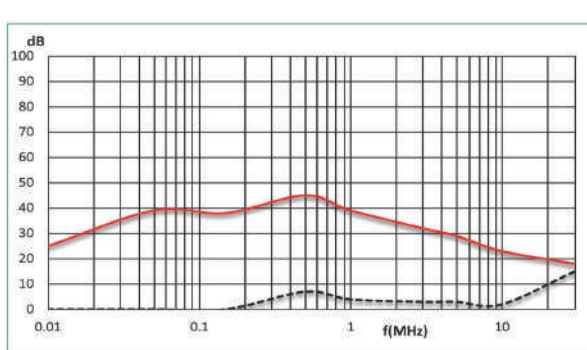
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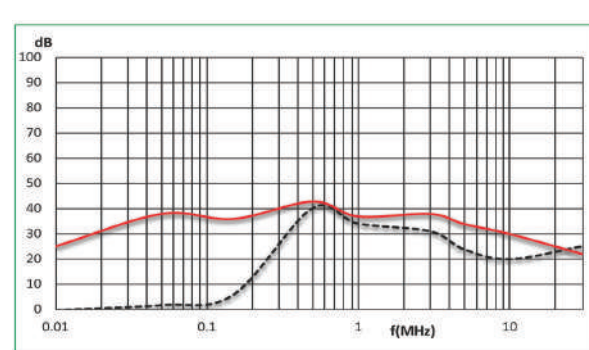
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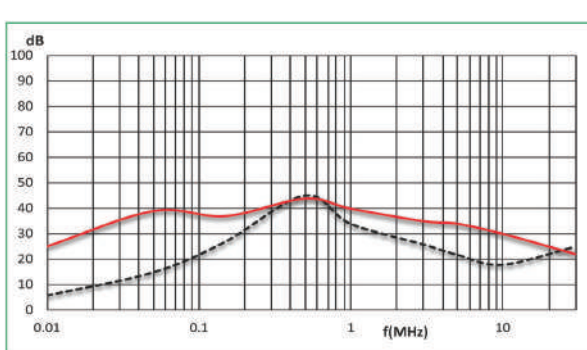
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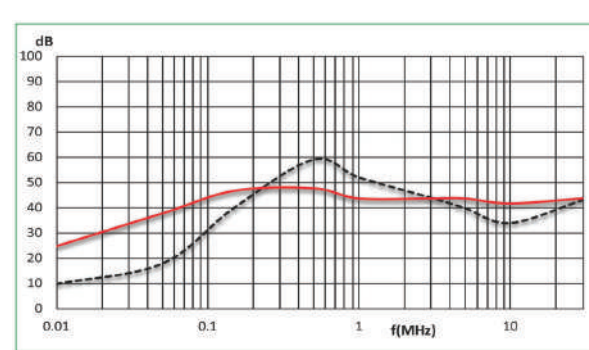
AMI-2240A-1600-C01



AMI-2240A-1600-C10



AMI-2240A-1600-C20



AMI-2240 High Performance High Voltage DC EMI Filters for EV Charging Applications

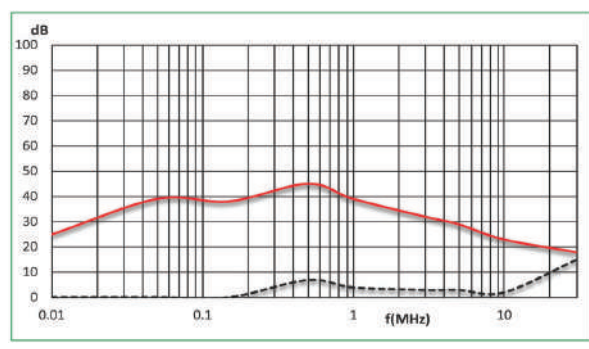


Typical Insertion Loss

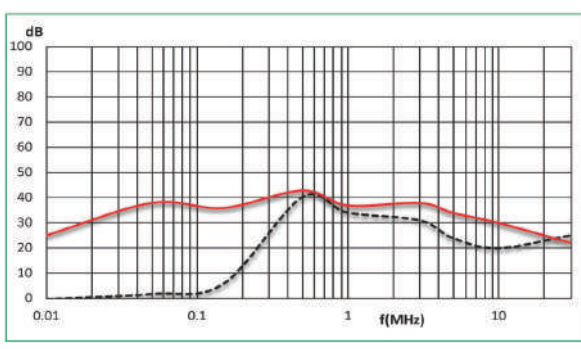
According to CISPR17 in 50 Ω system

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

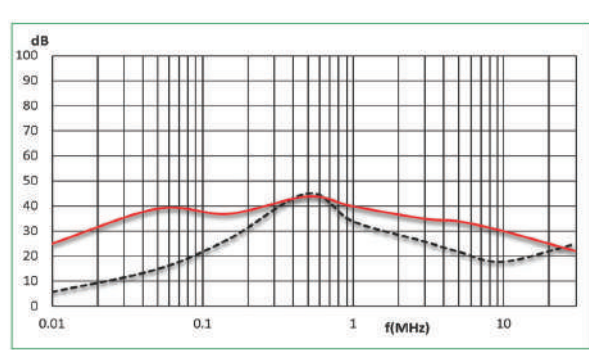
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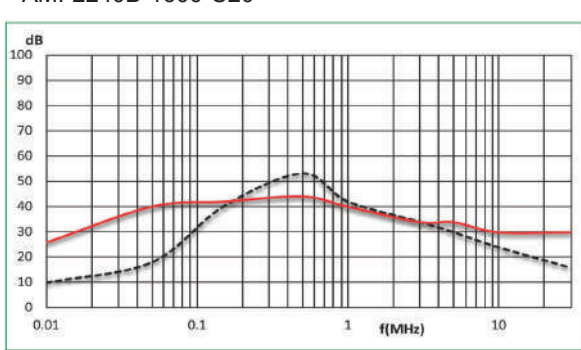
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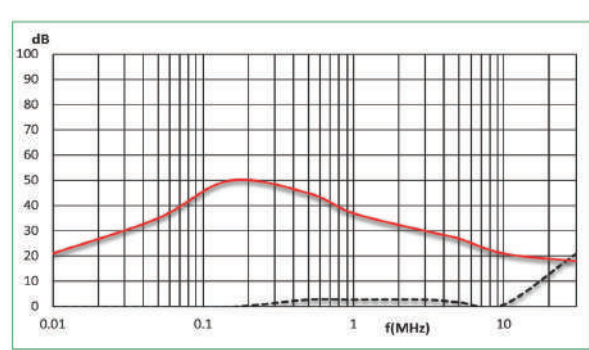
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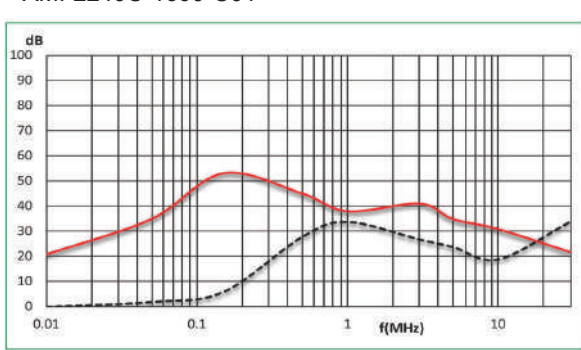
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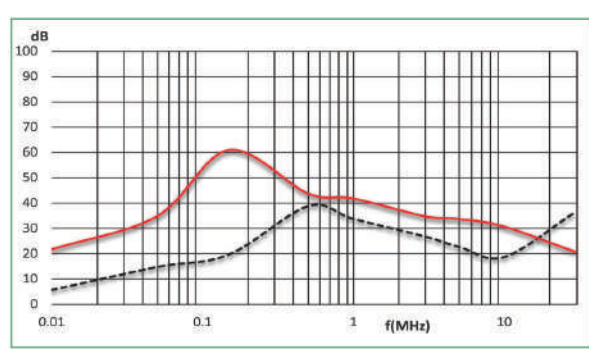
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AMI-2240C-1600-C01



AMI-2240C-1600-C10



AMI-2240C-1600-C20

