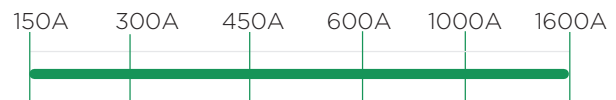

Features:

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

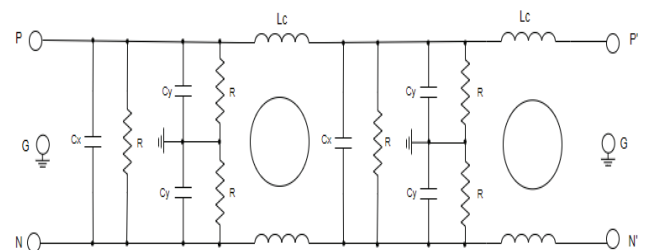
Applications:

- EV DC Fast charger
- Industrial charger
- UPS/Inverters

Performance Indicator


Rated current [A]

DATA SHEET
HIGH CURRENT DC EMI/RFI FILTER - MF 620
Description

These series range of EMI/RFI filters are designed to suppress undesirable electrical disturbances in Power lines for EV DC fast charging. Fulfill the requirements in IEC/EN 61851-23 Electric vehicle conductive charging system & UL 2202.

Typical circuit Diagram

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
1000VDC	DC P, N - 3600 VDC for 2 Sec DC P, N to G - 6000 VDC for 2 Sec
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
Flammability corresponding to	: UL 94 V-0 better
Temperature range	: -40°C to +100°C
Climatic Category	: 40/100/21

Ordering Information

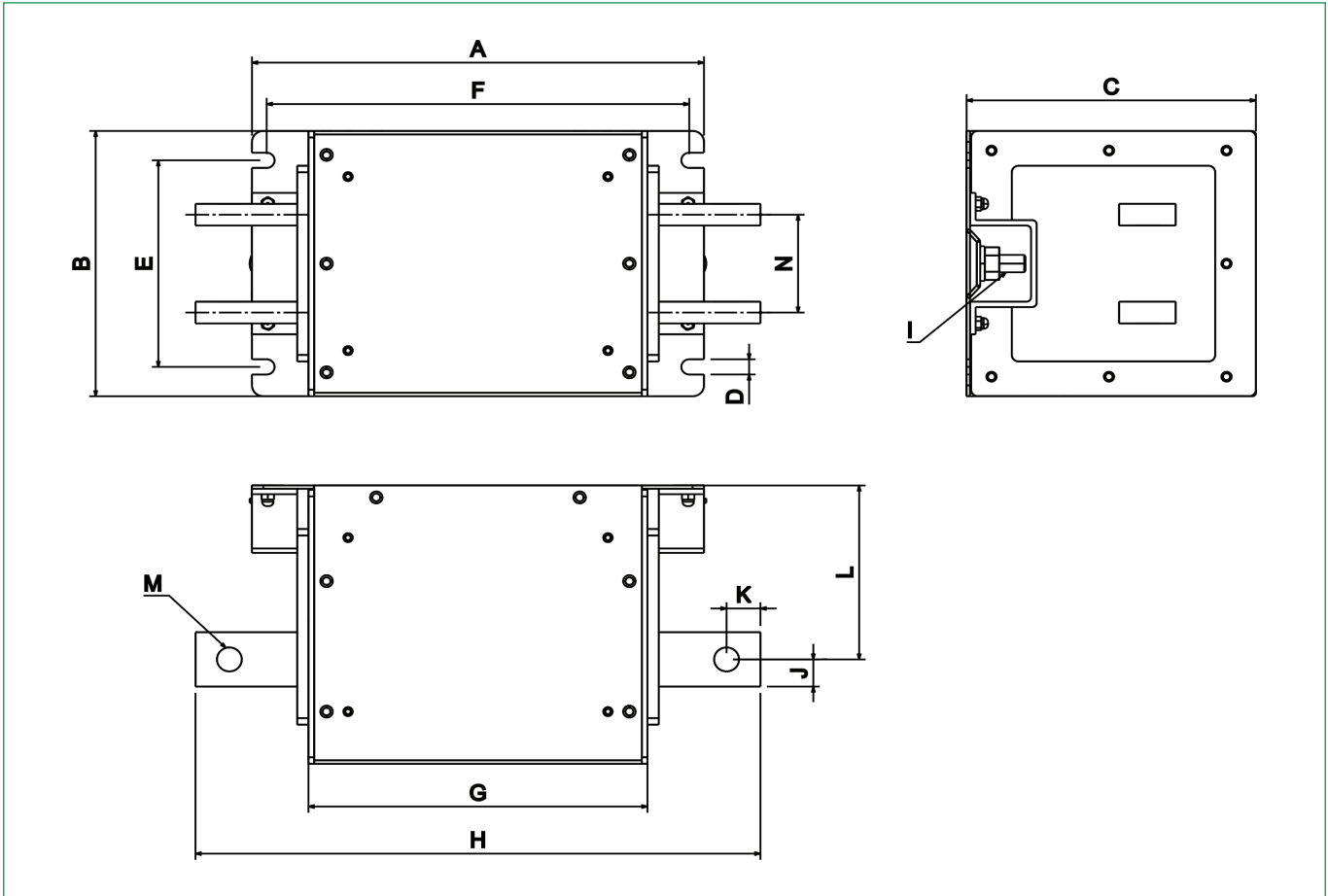
Model Number (500VDC)	Part Number	Model Number (1000VDC)	Part Number	Model Number (1500VDC)	Part Number	Rated Current @55°C	Total Capacitor to G(nF)	Termination 
MF620-150AX	E103958-1	MF620-150BX	E103982-1	MF620-150CX	E104006-1	150A	0	25x3
MF620-150AA	E103959-1	MF620-150BA	E103983-1	MF620-150CA	E104007-1	150A	100	
MF620-150AB	E103960-1	MF620-150BB	E103984-1	MF620-150CB	E103562-1	150A	1000	
MF620-150AC	E103961-1	MF620-150BC	E103985-1	MF620-150CC	E104009-1	150A	2000	
MF620-300AX	E103962-1	MF620-300BX	E103986-1	MF620-300CX	E104010-1	300A	0	25x5
MF620-300AA	E103963-1	MF620-300BA	E103987-1	MF620-300CA	E104011-1	300A	100	
MF620-300AB	E103964-1	MF620-300BB	E103988-1	MF620-300CB	E103567-1	300A	1000	
MF620-300AC	E103965-1	MF620-300BC	E103989-1	MF620-300CC	E104013-1	300A	2000	
MF620-450AX	E103966-1	MF620-450BX	E103990-1	MF620-450CX	E104014-1	450A	0	25x10
MF620-450AA	E103967-1	MF620-450BA	E103991-1	MF620-450CA	E104015-1	450A	100	
MF620-450AB	E103968-1	MF620-450BB	E103992-1	MF620-450CB	E104016-1	450A	1000	
MF620-450AC	E103969-1	MF620-450BC	E103993-1	MF620-450CC	E104017-1	450A	2000	
MF620-600AX	E103970-1	MF620-600BX	E103994-1	MF620-600CX	E104018-1	600A	0	25x12
MF620-600AA	E103971-1	MF620-600BA	E103995-1	MF620-600CA	E104019-1	600A	100	
MF620-600AB	E103972-1	MF620-600BB	E103996-1	MF620-600CB	E104020-1	600A	1000	
MF620-600AC	E103973-1	MF620-600BC	E103997-1	MF620-600CC	E104021-1	600A	2000	
MF620-1000AX	E103974-1	MF620-1000BX	E103998-1	MF620-1000CX	E104022-1	1000A	0	40x12
MF620-1000AA	E103975-1	MF620-1000BA	E103999-1	MF620-1000CA	E104023-1	1000A	100	
MF620-1000AB	E103976-1	MF620-1000BB	E104000-1	MF620-1000CB	E104024-1	1000A	1000	
MF620-1000AC	E103977-1	MF620-1000BC	E104001-1	MF620-1000CC	E104025-1	1000A	2000	
MF620-1600AX	E103978-1	MF620-1600BX	E104002-1	MF620-1600CX	E104026-1	1600A	0	60x12
MF620-1600AA	E103979-1	MF620-1600BA	E104003-1	MF620-1600CA	E104027-1	1600A	100	
MF620-1600AB	E103980-1	MF620-1600BB	E104004-1	MF620-1600BB	E104004-1	1600A	1000	
MF620-1600AC	E103981-1	MF620-1600BC	E104005-1	MF620-1600CC	E104029-1	1600A	2000	

Note:

Customized filters are provided on request.

Protective cover will be provided along with filter.

Mechanical Drawing:



Note: All dimensions in mm; Tolerances according to ISO2768-C

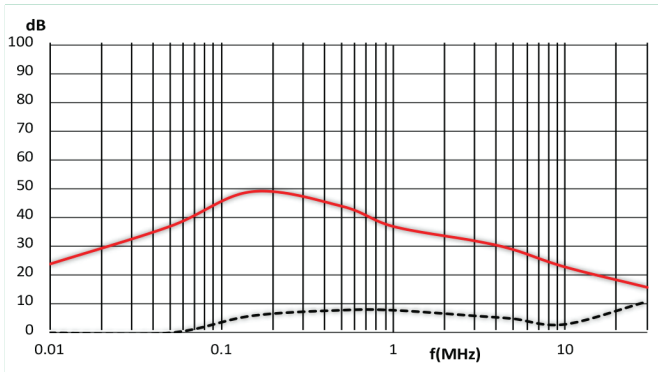
Mechanical Dimensions

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

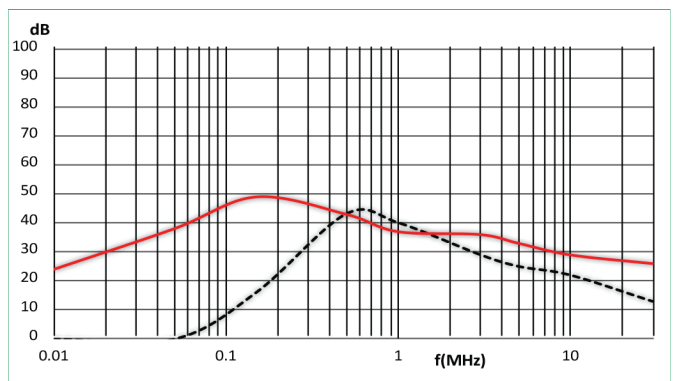
Insertion Loss : Common mode _____ Differential Mode

Per CISPR 17; DM=50/50 sym; CM=50/50 asym

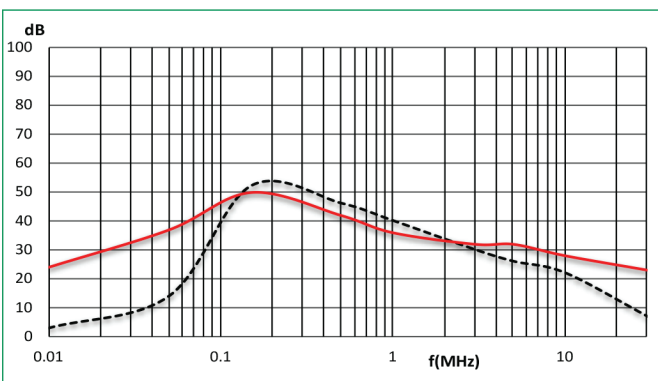
150AX



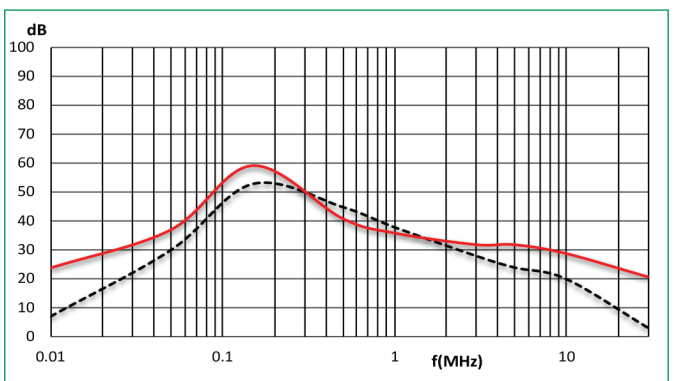
150AA



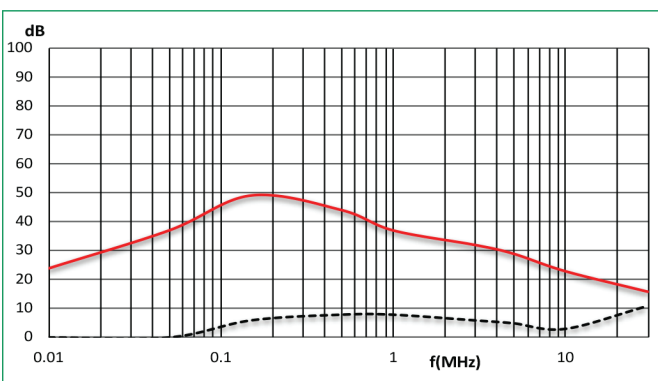
150AB



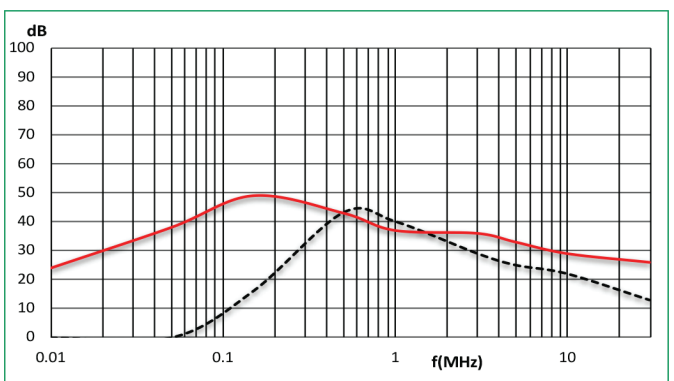
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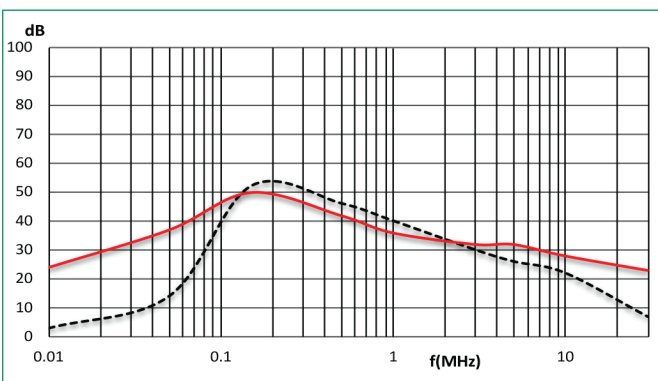
150BX



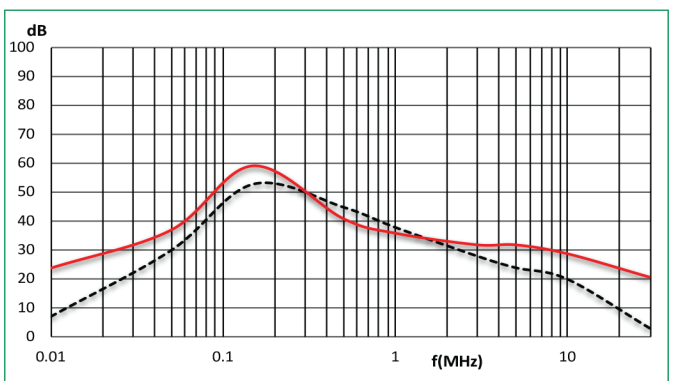
150BA



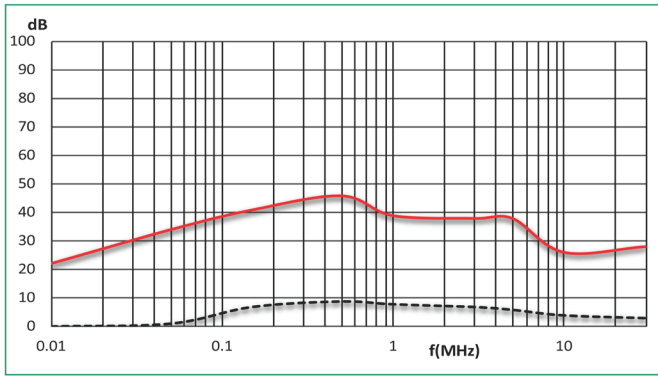
150BB



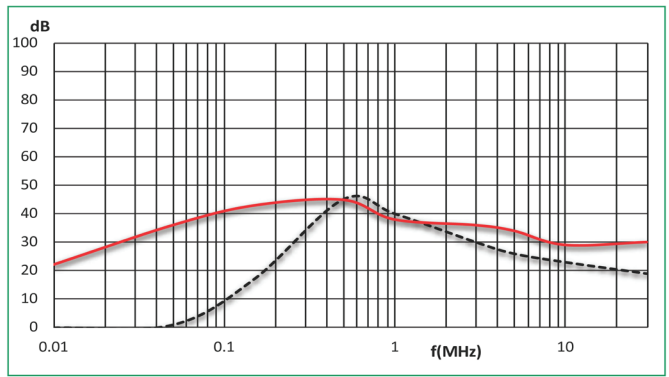
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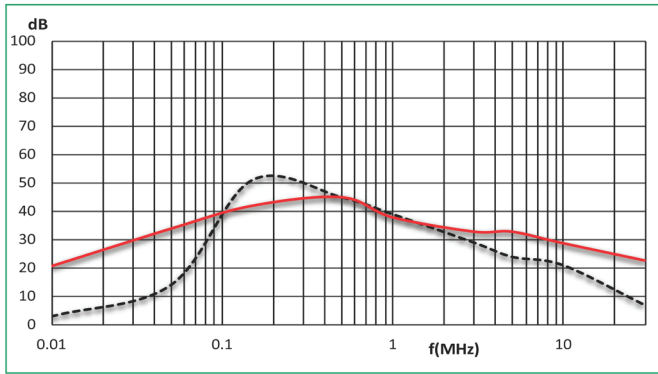
150CX



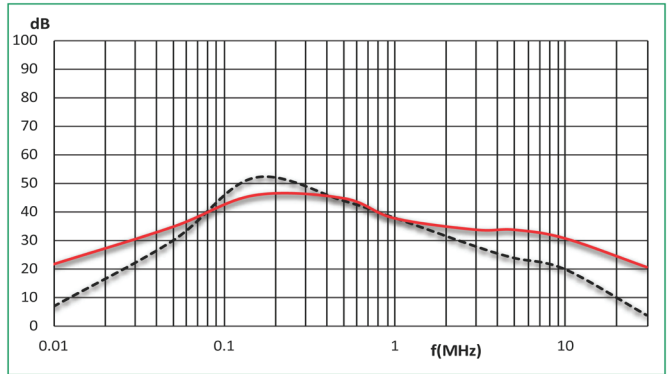
150CA



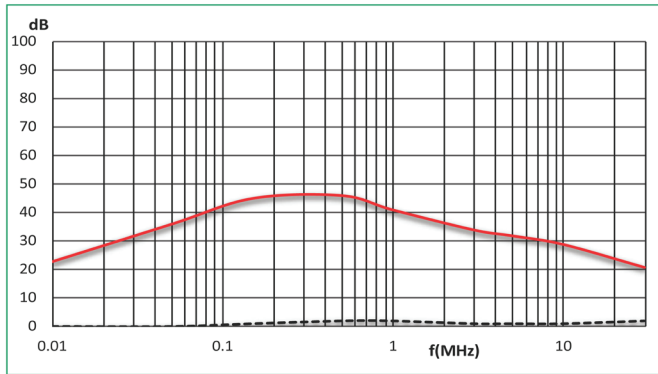
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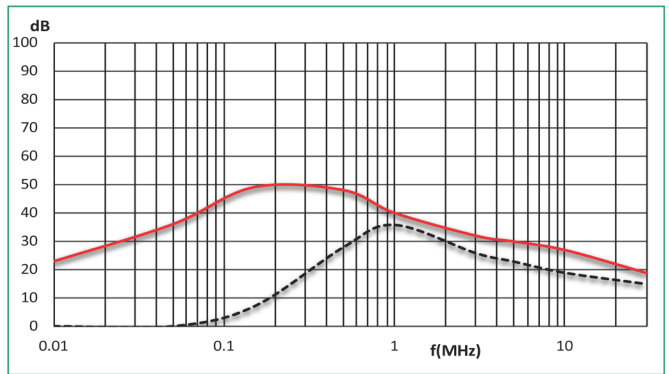
150CC



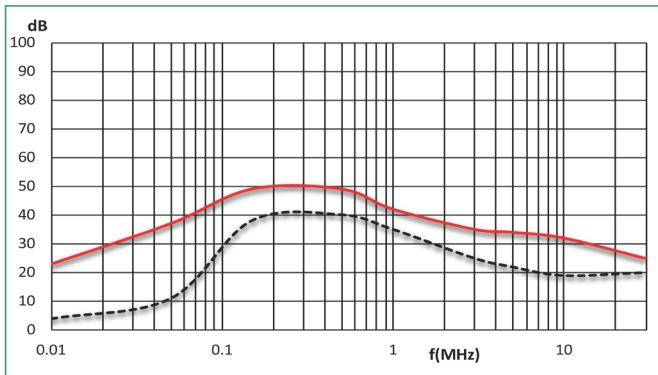
300AX



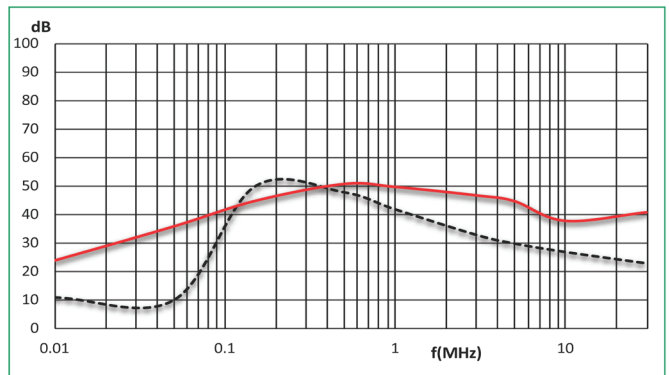
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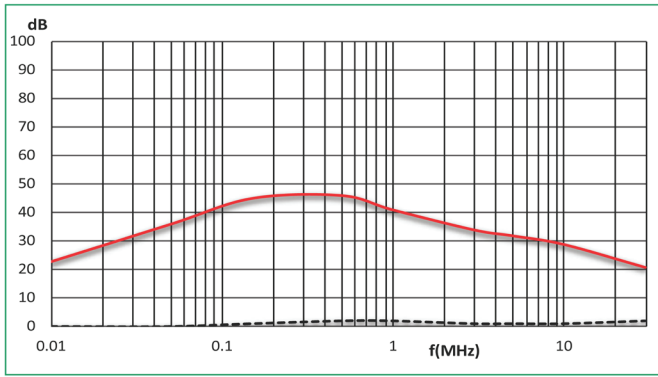
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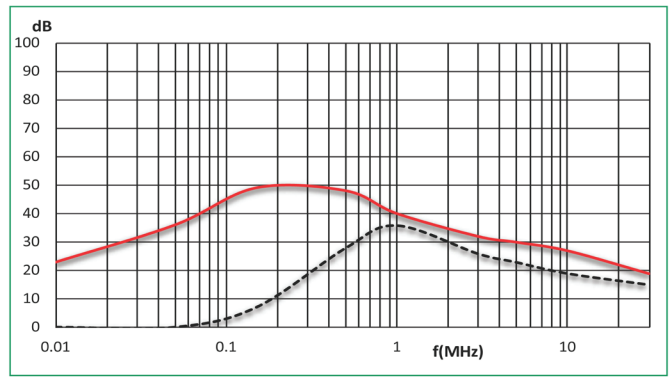
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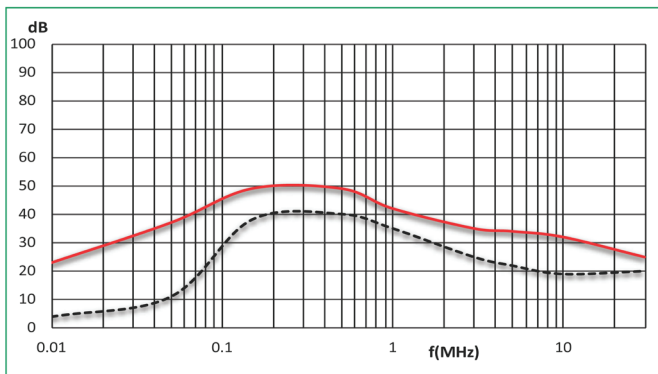
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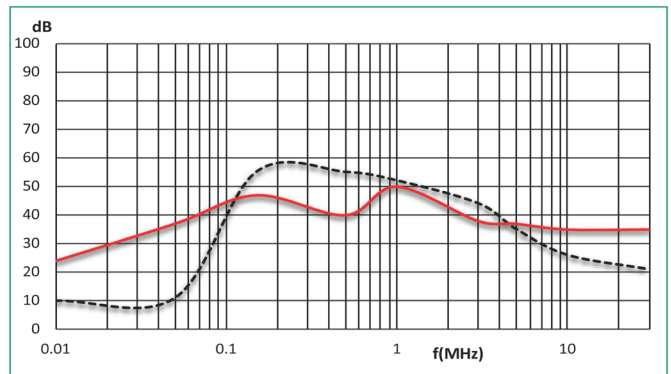
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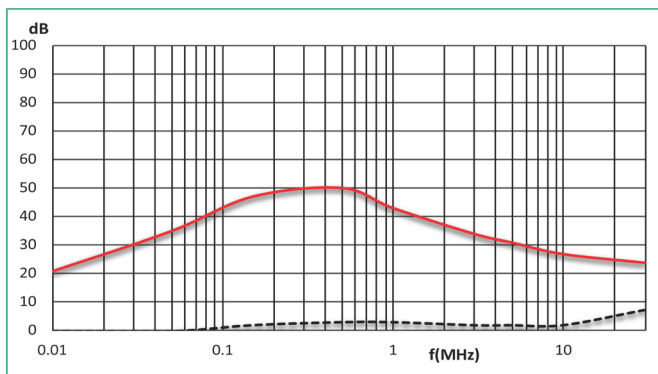
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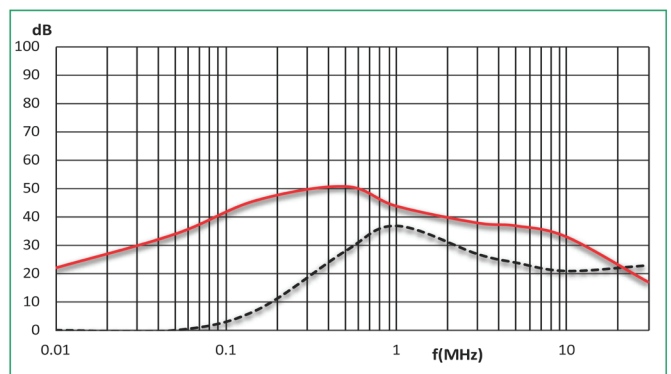
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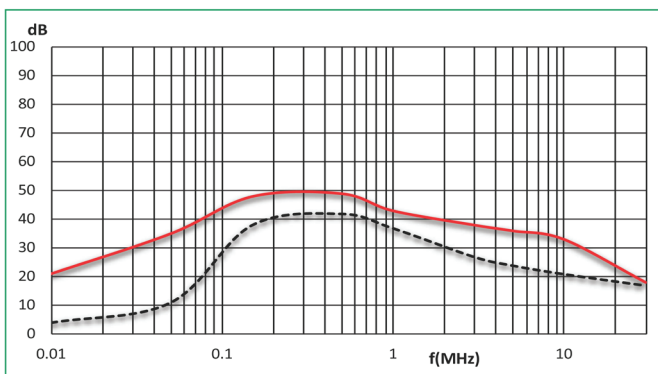
300CX



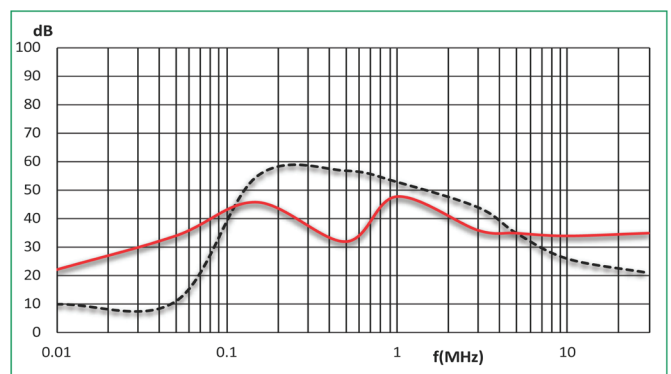
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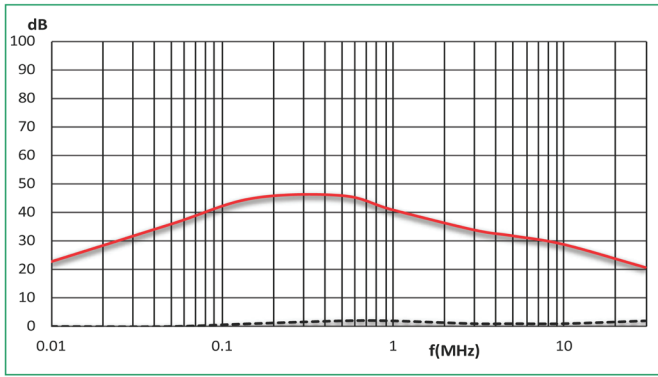
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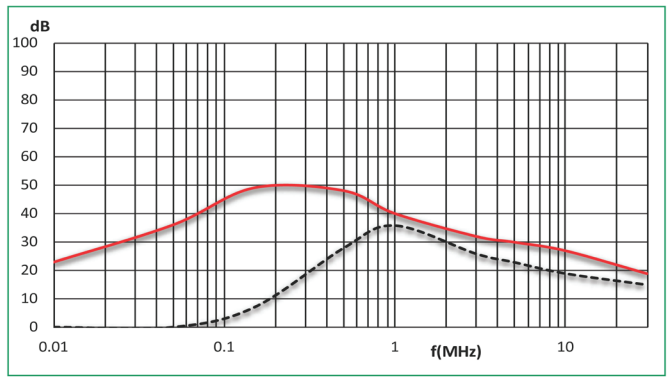
300CC



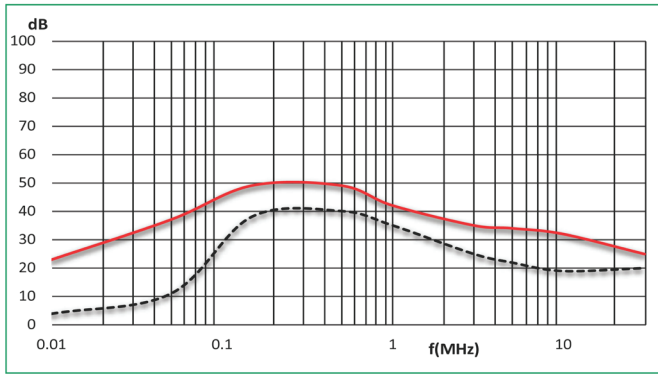
450AX



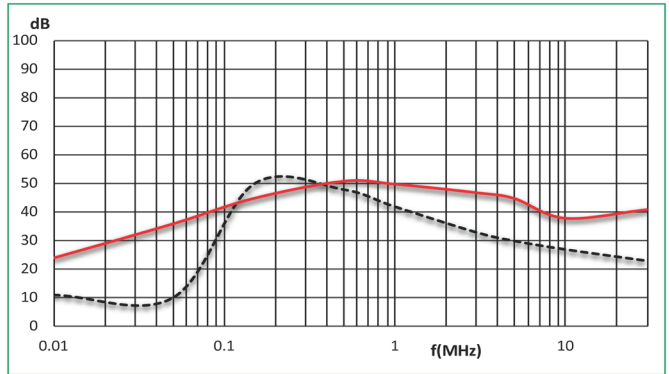
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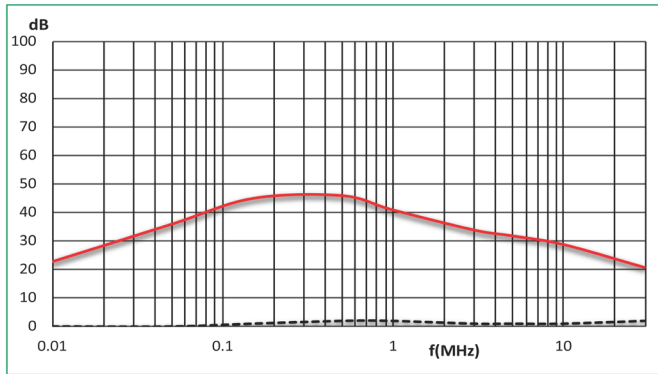
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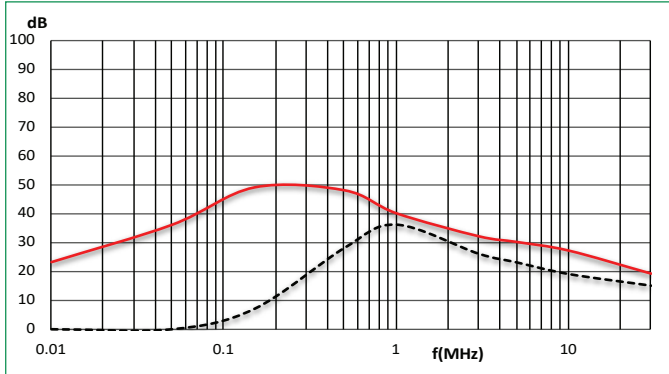
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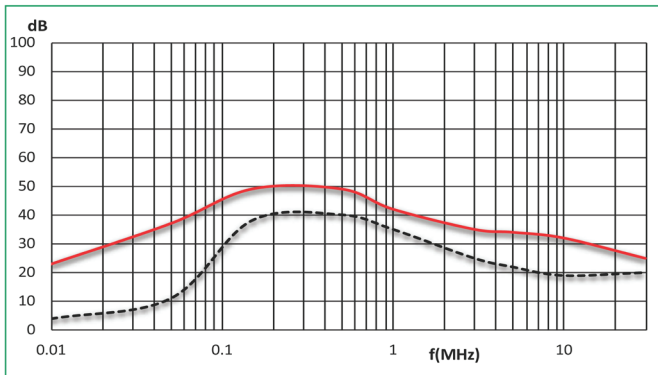
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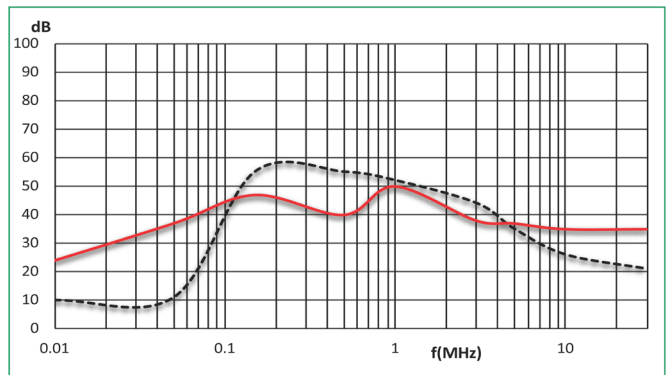
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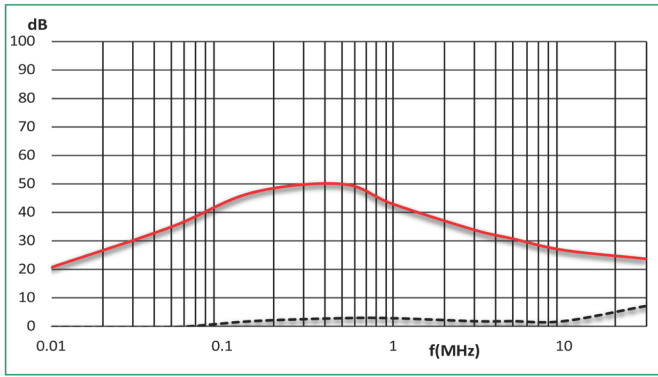
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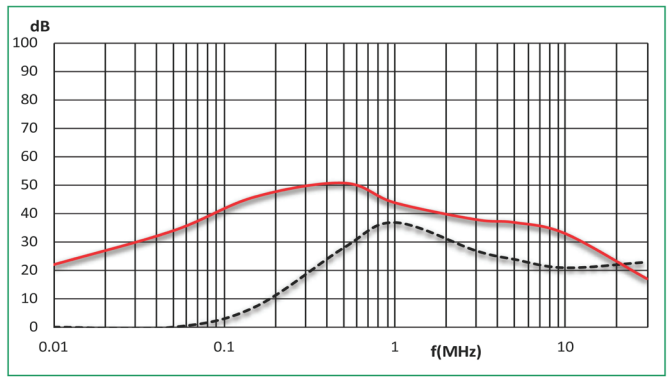
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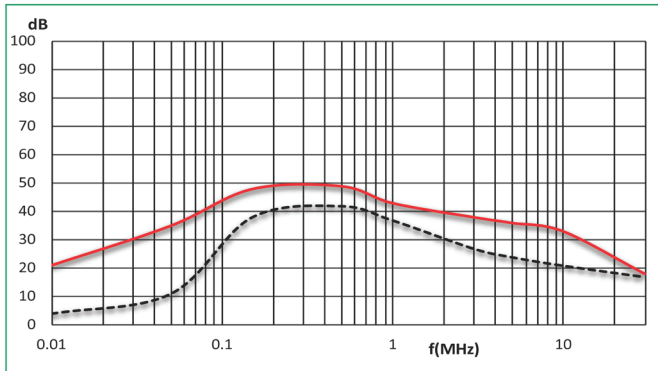
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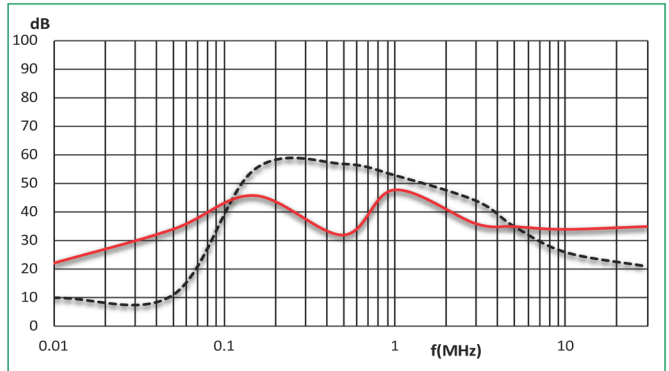
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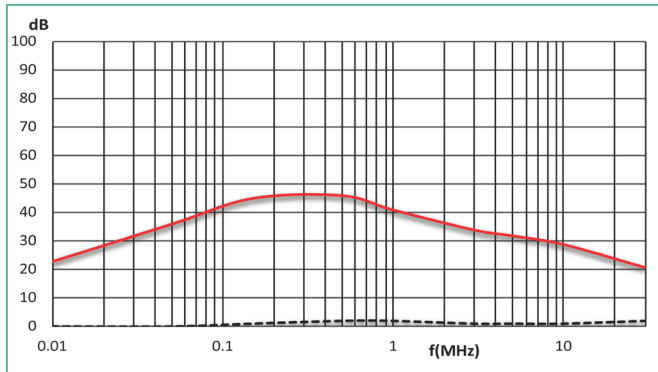
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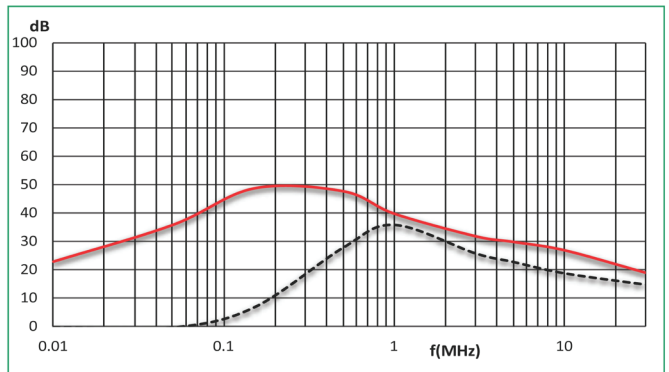
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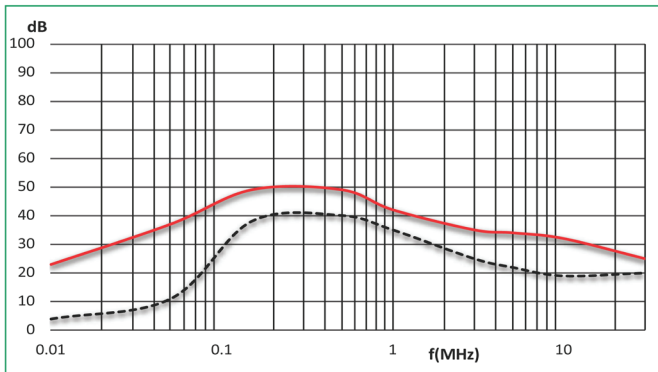
600AX



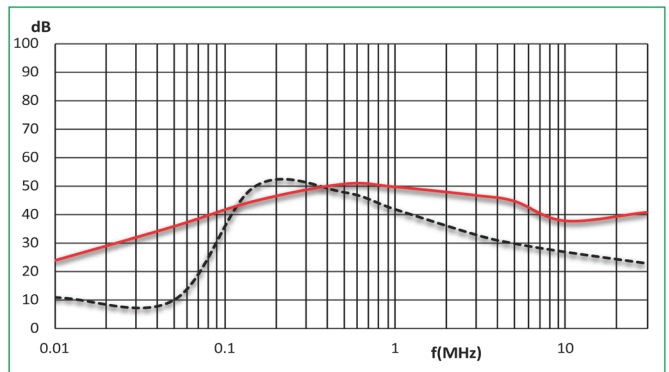
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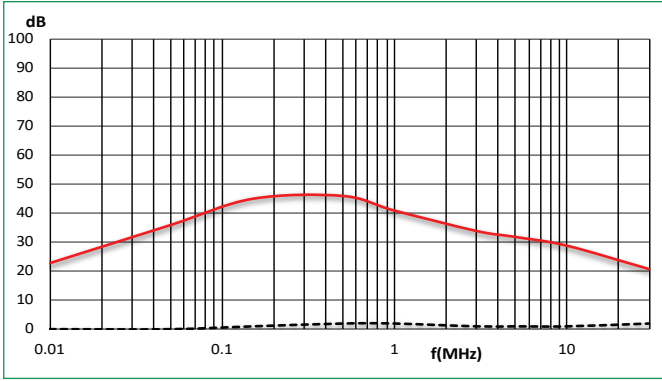
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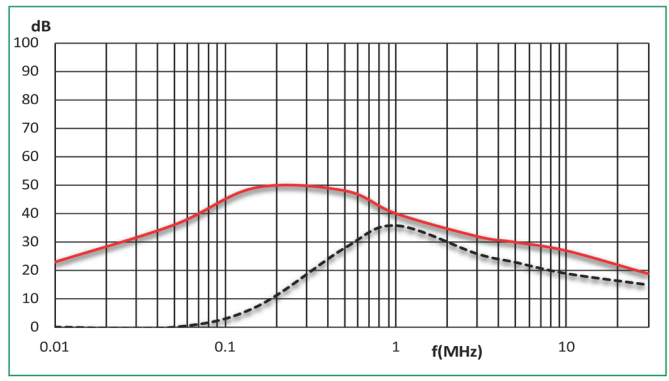
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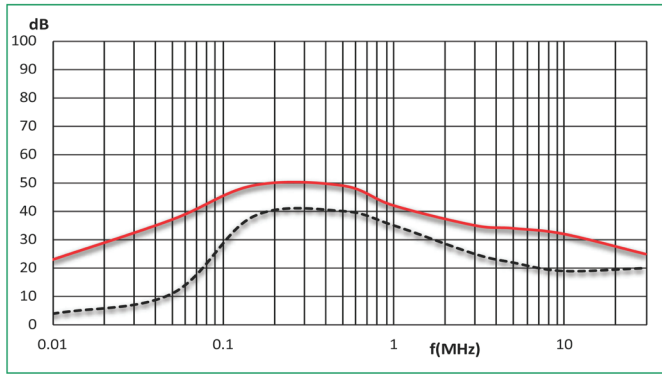
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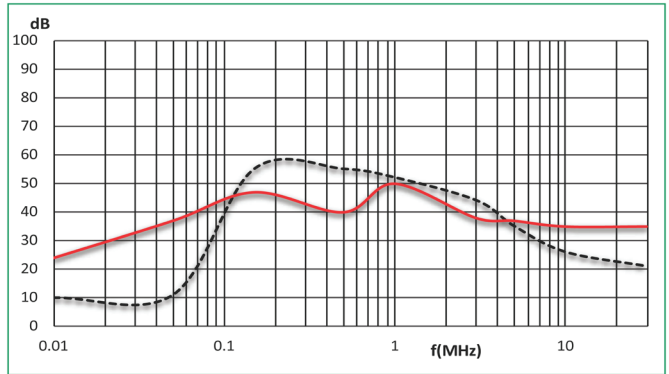
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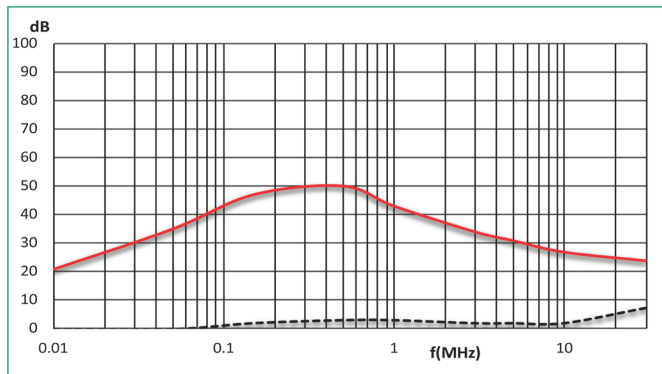
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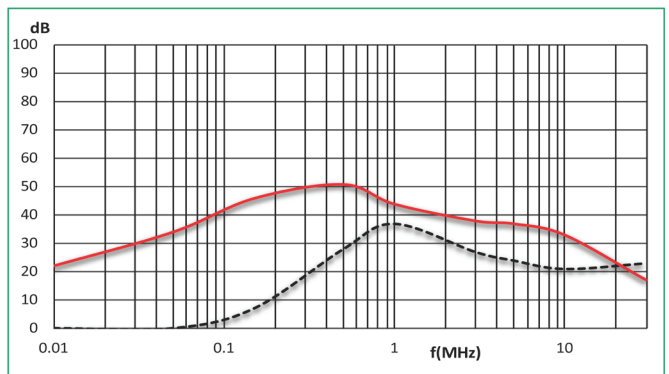
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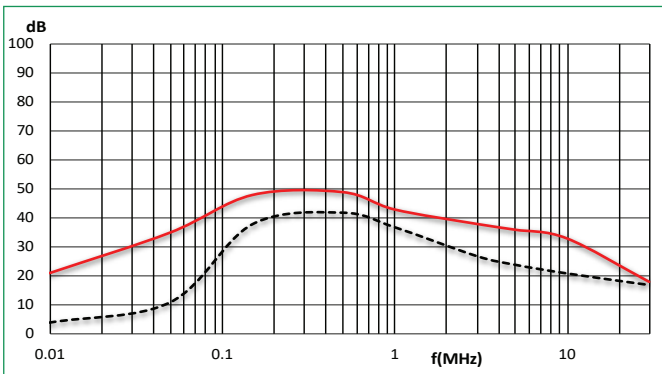
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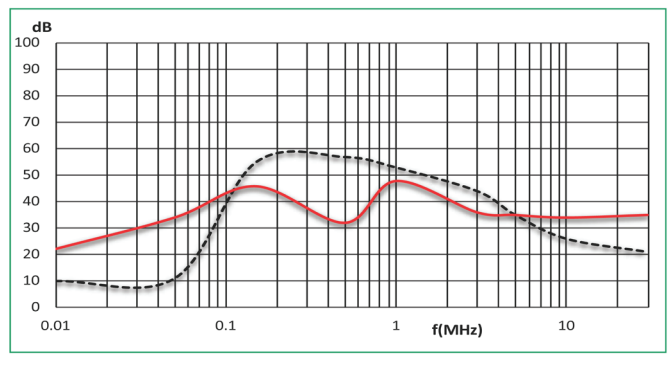
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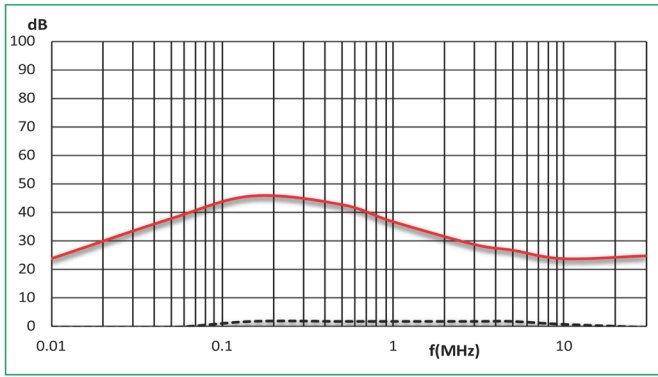
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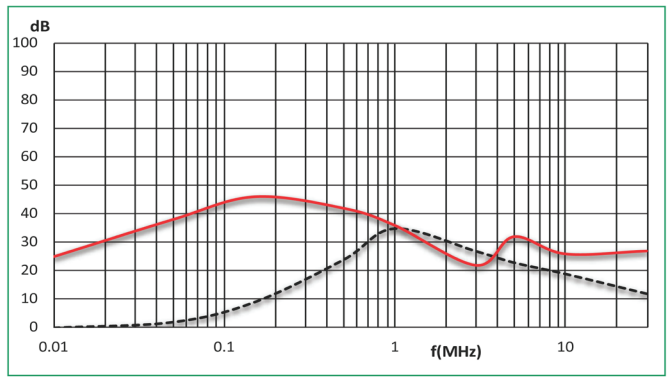
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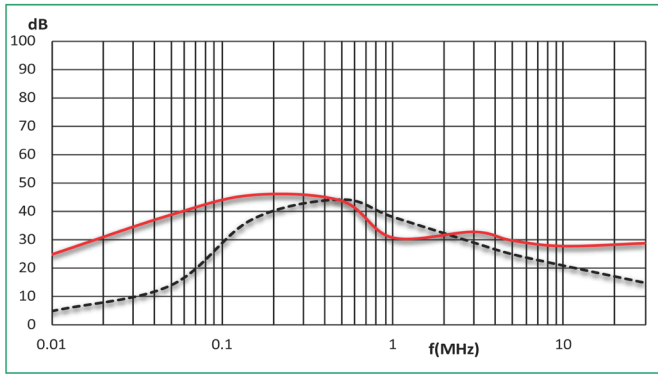
1000AX



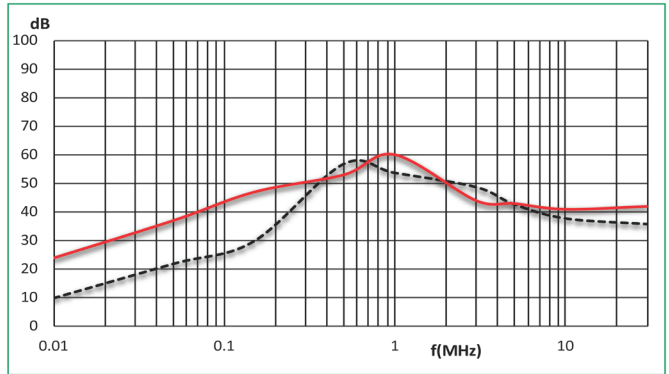
1000AA



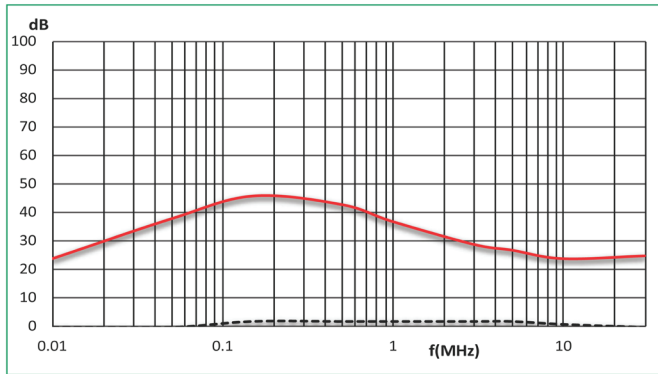
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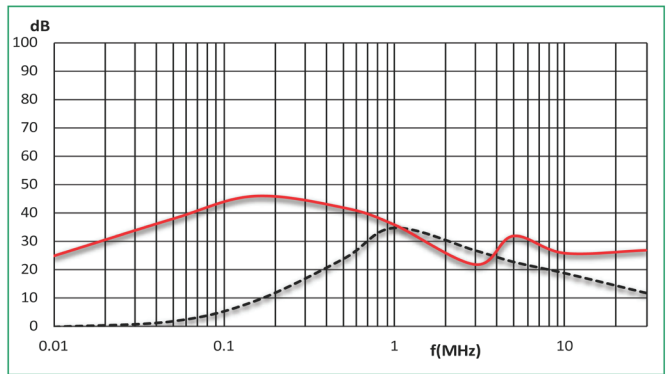
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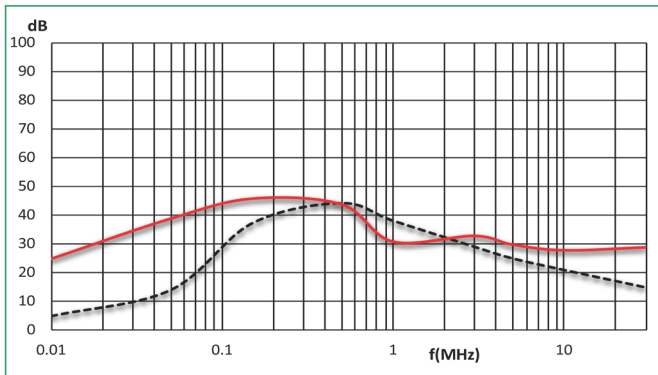
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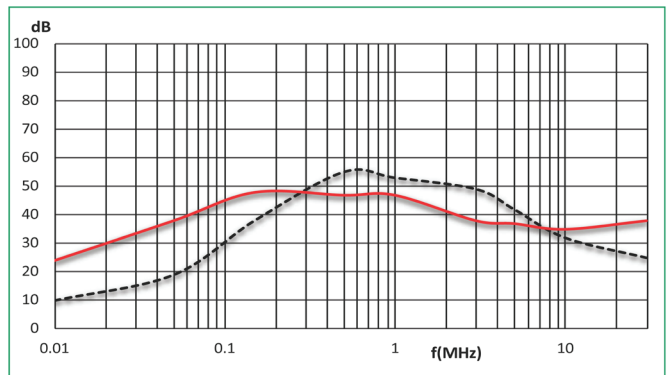
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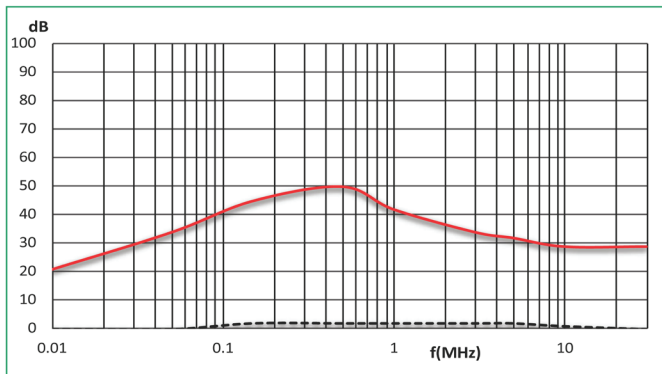
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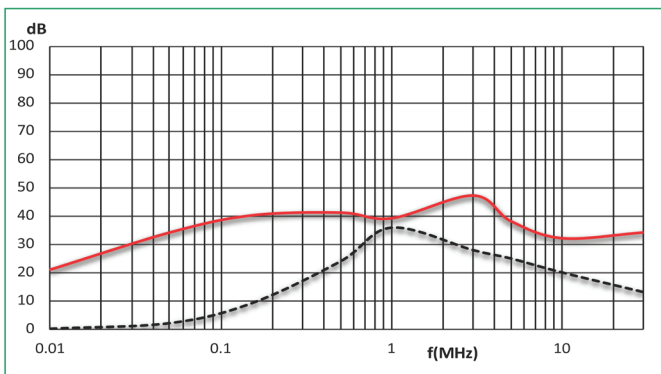
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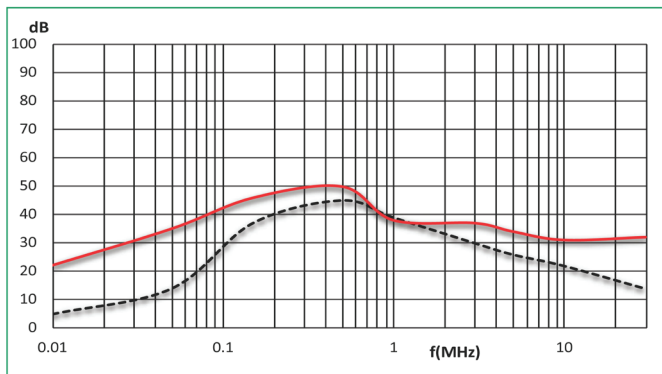
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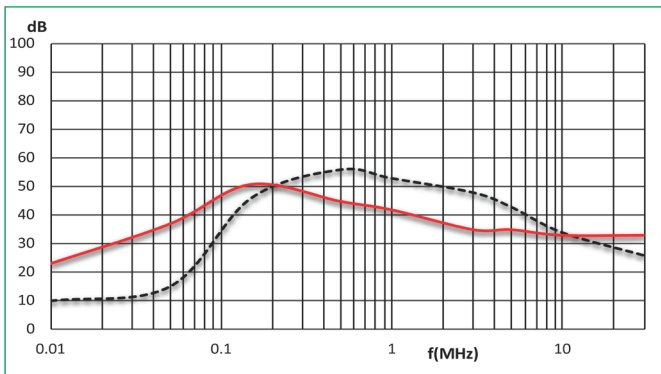
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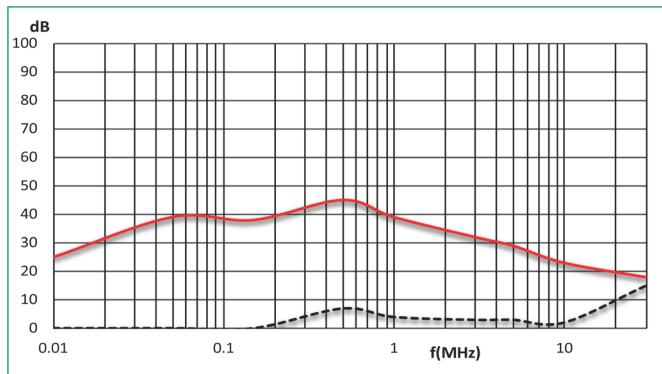
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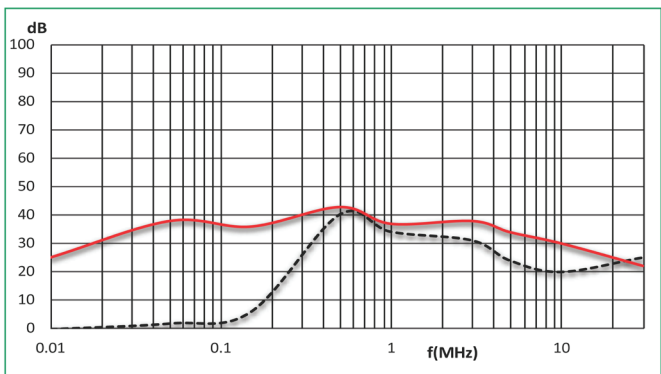
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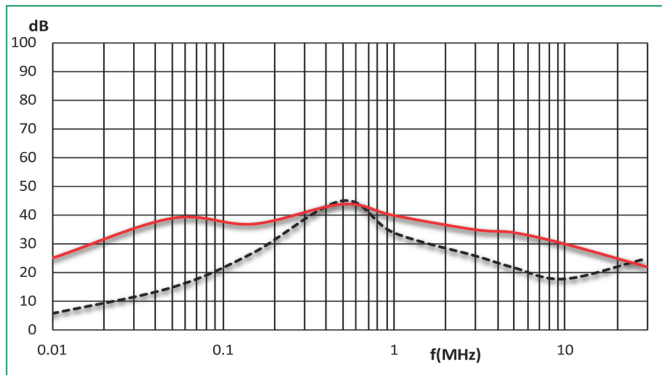
1600AX



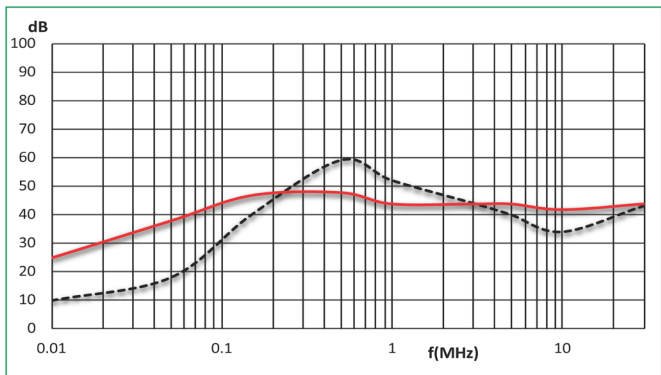
1600AA



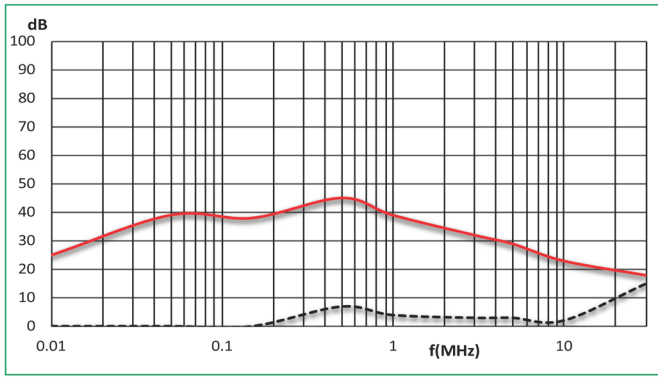
1600AB



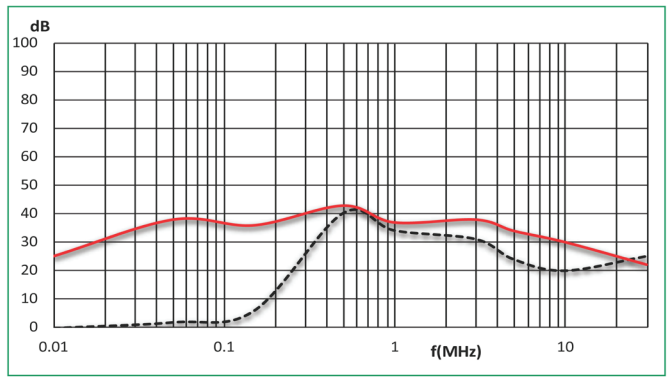
1600AC



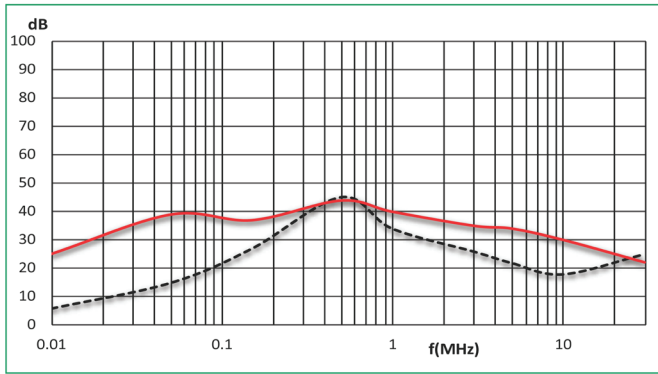
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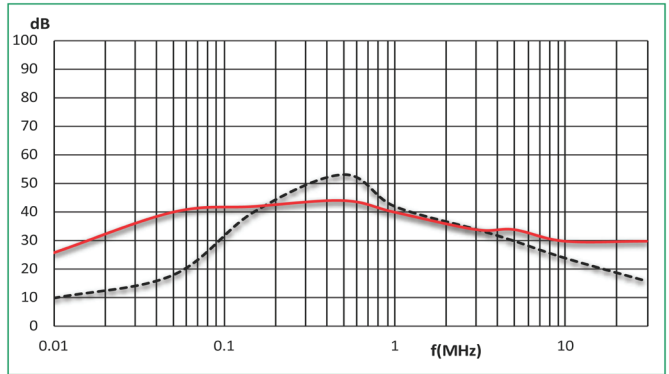
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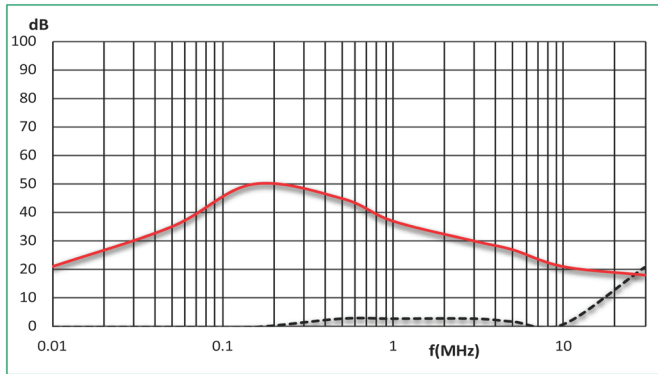
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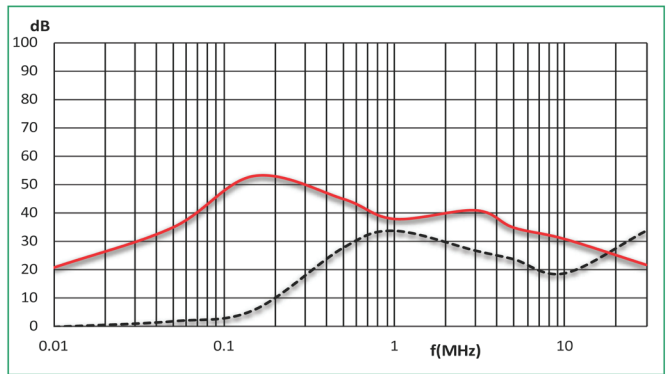
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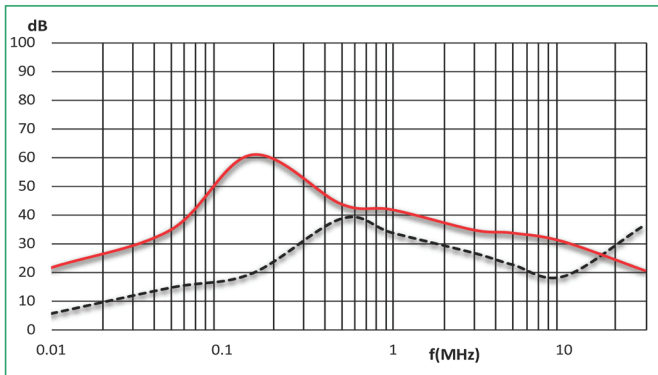
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1600CA



1600CB



1600CC

