

Features:

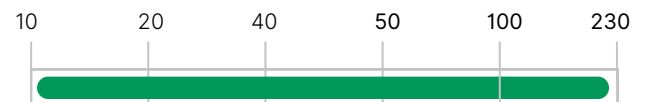
- Current rating from 10A to 230A
- High EMI attenuation
- Compliance with Class C2 and C1 limits
- Book-style with convenient size
- High Voltage up to 760VAC
- Various versions are available such as Standard, High Voltage and High Voltage with IT Networks

Applications:

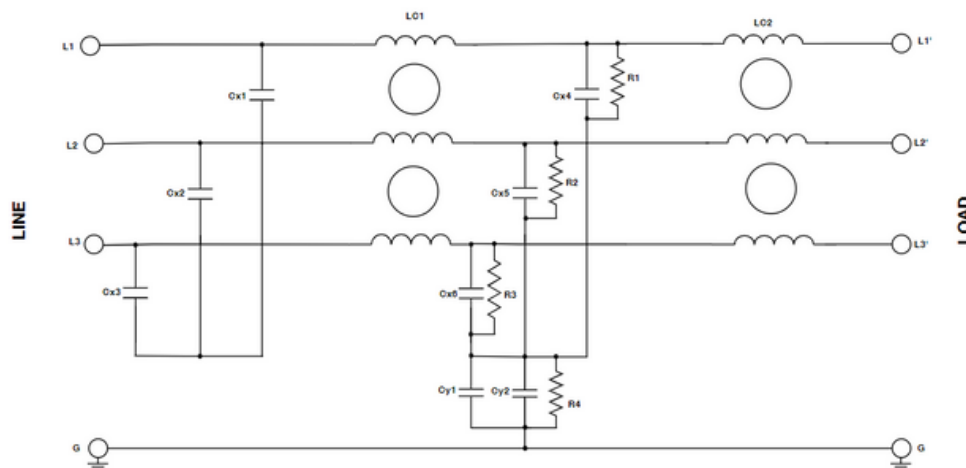
- Variable speed drives and power drive systems (PDS).
- Machine tools and machinery equipment.
- IT power distribution networks.
- Inverters, converters
- Process automation equipment.
- Three-phase power supplies.

Performance Indicator:

Standard	High	Very High

Rated Current (A):

DATASHEET
**THREE PHASE EMI FILTER-
TMF3221/TMF3222**

The book style filters in this series are engineered for variable speed motors and power drive systems, delivering reliable EMC Performance for standard and high demand applications. They effectively reduce conducted noise even under significant interference meeting EN 61800-3 Category C2 and C1 environmental requirements.

Type Circuit Diagram:


Note: R4 is not applicable for the IT Network application.

Technical Specifications:

Maximum Continuous Operating Voltage	:520VAC (TMF3221) (TMF3222) (TMF3222IT) 760VAC (TMF3222HV) (TMF3222HVIT)
Operating Frequency	:50/60 Hz
Current ratings	:10A to 230A @50°C
High Potential test voltage	:L -> G 2884 VDC for 2 s (TMF3221) (TMF3222) L -> L 2279 VDC for 2 s (TMF3221) (TMF3222) L-> G 3528 VDC for 2 s(TMF3222HV) L -> L 3268 VDC for 2 s(TMF3222HV)
Overload Capability	:4x rated current at switch on, 135% of rated current for 15Mins
Flammability according to	:UL 94 V-0
Protection category	:IP 20
Overvoltage category	:III acc. IEC 60664-1
Design Corresponding to	:UL 60939-3, IEC 60939-1&2 and CSA 22.2 No.8-13
Temperature range	:-40°C to +100°C
Climatic Category	:40/100/21
Compliance with insulation requirement	:>1MOhm acc. to IEC 60204-1

Ordering Information

Standard Performance Version									
Model Number	Part Number	Current Rating @50°C(A)	Leakage Current @520 VAC/50Hz (mA)			Power loss @25°C / 50Hz (W)	Termination 	Min.Weight (kg)	Enclosure
			C3	C6	C9				
TMF3221-10-2-C3-RB1	E108365-1	10	0.4	-	-	7.5	-2 (06)	0.7	Q
TMF3221-10-2-C6-RB1	E108365-2	10	-	2.2	-	7.5	-2 (06)	0.7	Q
TMF3221-10-2-C9-RB1	E108365-3	10	-	-	4.2	7.5	-2 (06)	0.7	Q
TMF3221-16-2-C3-RB1	E108366-1	16	0.4	-	-	9.5	-2 (06)	0.8	R
TMF3221-16-2-C6-RB1	E108366-2	16	-	2.4	-	9.5	-2 (06)	0.8	R
TMF3221-16-2-C9-RB1	E108366-3	16	-	-	4.3	9.5	-2 (06)	0.8	R
TMF3221-20-2-C3-RB1	E108367-1	20	0.4	-	-	10	-2 (06)	0.9	S
TMF3221-20-2-C6- RB1	E108367-2	20	-	2.5	-	10	-2 (06)	0.9	S
TMF3221-20-2-C9-RB1	E108367-3	20	-	-	4.9	10	-2 (06)	0.9	S
TMF3221-25-2-C3-RB1	E108369-1	25	0.4	-	-	11.5	-2 (06)	1	S
TMF3221-25-2-C6-RB1	E108369-2	25	-	2.5	-	11.5	-2 (06)	1	S
TMF3221-25-2-C9-RB1	E108369-3	25	-	-	4.9	11.5	-2 (06)	1	S
TMF3221-40-2-C3-RB1	E108370-1	40	0.4	-	-	23	-2 (06)	1.5	T
TMF3221-40-2-C6-RB1	E108370-2	40	-	2.5	-	23	-2 (06)	1.5	T
TMF3221-40-2-C9-RB1	E108370-3	40	-	-	4.9	23	-2 (06)	1.5	T
TMF3221-50-2-C3-RB1	E108371-1	50	0.4	-	-	25.5	-2 (16)	2.1	U
TMF3221-50-2-C6-RB1	E108371-2	50	-	2.5	-	25.5	-2 (16)	2.1	U
TMF3221-50-2-C9-RB1	E108371-3	50	-	-	4.9	25.5	-2 (16)	2.1	U
TMF3221-63-2-C3-RB1	E108372-1	63	0.4	-	-	32.5	-2 (16)	2.2	U
TMF3221-63-2-C6-RB1	E108372-2	63	-	2.5	-	32.5	-2 (16)	2.2	U
TMF3221-63-2-C9-RB1	E108372-3	63	-	-	4.9	32.5	-2 (16)	2.2	U
TMF3221-80-2-C3-RB1	E108373-1	80	0.4	-	-	33	-2 (35)	3.4	F
TMF3221-80-2-C6-RB1	E108373-2	80	-	2.7	-	33	-2 (35)	3.4	F
TMF3221-80-2-C9-RB1	E108373-3	80	-	-	5.6	33	-2 (35)	3.4	F
TMF3221-100-2-C3-RB1	E108374-1	100	0.4	-	-	33.5	-2 (50)	4.2	G
TMF3221-100-2-C6-RB1	E108374-2	100	-	2.7	-	33.5	-2 (50)	4.2	G
TMF3221-100-2-C9-RB1	E108374-3	100	-	-	5.6	33.5	-2 (50)	4.2	G
TMF3221-125-2-C3-RB1	E108375-1	125	0.4	-	-	37.5	-2 (50)	4.6	G
TMF3221-125-2-C6-RB1	E108375-2	125	-	2.7	-	37.5	-2 (50)	4.6	G
TMF3221-125-2-C9-RB1	E108375-3	125	-	-	5.6	37.5	-2 (50)	4.6	G
TMF3221-160-2-C3-RB1	E108376-1	160	0.4	-	-	38.5	-2 (95)	6	H
TMF3221-160-2-C6-RB1	E108376-2	160	-	2.7	-	38.5	-2 (95)	6	H
TMF3221-160-2-C9-RB1	E108376-3	160	-	-	5.6	38.5	-2 (95)	6	H
TMF3221-230-2-C3-RB1	E108377-1	230	0.4	-	-	48	-2 (95)	8.8	V
TMF3221-230-2-C6-RB1	E108377-2	230	-	2.7	-	48	-2 (95)	8.8	V
TMF3221-230-2-C9-RB1	E108377-3	230	-	-	5.9	48	-2 (95)	8.8	V

High Performance Version										
Model Number	Part Number	Current Rating @50°C (A)	Leakage Current @520 VAC/50Hz (mA)				Power loss @25°C / 50Hz (W)	Termination 	Min.Weight (kg)	Enclosure
			C2	C3	C6	C11				
TMF3222-10-2-C2-RB1	E108378-1	10	0.1	-	-	-	7.5	-2 (06)	0.8	A
TMF3222-10-2-C3-RB1	E108378-2	10	-	0.4	-	-	7.5	-2 (06)	0.8	A
TMF3222-10-2-C6-RB1	E108378-3	10	-	-	2.5	-	7.5	-2 (06)	0.8	A
TMF3222-10-2-C11-RB1	E108378-4	10	-	-	-	6	7.5	-2 (06)	0.8	A
TMF3222-16-2-C2-RB1	E108379-1	16	0.1	-	-	-	10.5	-2 (06)	1	B
TMF3222-16-2-C3-RB1	E108379-2	16	-	0.4	-	-	10.5	-2 (06)	1	B
TMF3222-16-2-C6-RB1	E108379-3	16	-	-	2.5	-	10.5	-2 (06)	1	B
TMF3222-16-2-C11-RB1	E108379-4	16	-	-	-	6	10.5	-2 (06)	1	B
TMF3222-20-2-C2-RB1	E108380-1	20	0.1	-	-	-	11	-2 (06)	1.2	C
TMF3222-20-2-C3-RB1	E108380-2	20	-	0.4	-	-	11	-2 (06)	1.2	C
TMF3222-20-2-C6-RB1	E108380-3	20	-	-	2.5	-	11	-2 (06)	1.2	C
TMF3222-20-2-C11-RB1	E108380-4	20	-	-	-	6	11	-2 (06)	1.2	C
TMF3222-25-2-C2-RB1	E108381-1	25	0.1	-	-	-	18	-2 (06)	1.2	C
TMF3222-25-2-C3-RB1	E108381-2	25	-	0.4	-	-	18	-2 (06)	1.2	C
TMF3222-25-2-C6-RB1	E108381-3	25	-	-	2.5	-	18	-2 (06)	1.2	C
TMF3222-25-2-C11-RB	E108381-4	25	-	-	-	6	18	-2 (06)	1.2	C
TMF3222-40-2-C2-RB1	E108382-1	40	0.1	-	-	-	22	-2 (06)	1.8	D
TMF3222-40-2-C3-RB1	E108382-2	40	-	0.4	-	-	22	-2 (06)	1.8	D
TMF3222-40-2-C6-RB1	E108382-3	40	-	-	3.5	-	22	-2 (06)	1.8	D
TMF3222-40-2-C11-RB1	E108382-4	40	-	-	-	6	22	-2 (06)	1.8	D
TMF3222-50-2-C2-RB1	E108383-1	50	0.1	-	-	-	30	-2 (16)	2.5	E
TMF3222-50-2-C3-RB1	E108383-2	50	-	0.4	-	-	30	-2 (16)	2.5	E
TMF3222-50-2-C6-RB1	E108383-3	50	-	-	2.6	-	30	-2 (16)	2.5	E
TMF3222-50-2-C11-RB1	E108383-4	50	-	-	-	6.6	30	-2 (16)	2.5	E
TMF3222-63-2-C2-RB1	E108384-1	63	0.1	-	-	-	35	-2 (16)	2.7	E
TMF3222-63-2-C3-RB1	E108384-2	63	-	0.4	-	-	35	-2 (16)	2.7	E
TMF3222-63-2-C6-RB1	E108384-3	63	-	-	2.6	-	35	-2 (16)	2.7	E
TMF3222-63-2-C11-RB1	E108384-4	63	-	-	-	6.6	35	-2 (16)	2.7	E
TMF3222-80-2-C2-RB1	E108385-1	80	0.1	-	-	-	29	-2 (35)	4.3	F
TMF3222-80-2-C3-RB1	E108385-2	80	-	0.4	-	-	29	-2 (35)	4.3	F
TMF3222-80-2-C6-RB1	E108385-3	80	-	-	2.7	-	29	-2 (35)	4.3	F
TMF3222-80-2-C11-RB1	E108385-4	80	-	-	-	7.1	29	-2 (35)	4.3	F
TMF3222-100-2-C2-RB1	E108386-1	100	0.1	-	-	-	36	-2 (50)	5.1	G
TMF3222-100-2-C3-RB1	E108386-2	100	-	0.4	-	-	36	-2 (50)	5.1	G
TMF3222-100-2-C6-RB1	E108386-3	100	-	-	2.7	-	36	-2 (50)	5.1	G
TMF3222-100-2-C11-RB1	E108386-4	100	-	-	-	7.1	36	-2 (50)	5.1	G
TMF3222-125-2-C2-RB1	E108387-1	125	0.1	-	-	-	42.5	-2 (50)	5	G
TMF3222-125-2-C3-RB1	E108387-2	125	-	0.4	-	-	42.5	-2 (50)	5	G
TMF3222-125-2-C6-RB1	E108387-3	125	-	-	2.7	-	42.5	-2 (50)	5	G
TMF3222-125-2-C11-RB1	E108387-4	125	-	-	-	7.1	42.5	-2 (50)	5	G
TMF3222-160-2-C2-RB1	E108388-1	160	0.1	-	-	-	46.5	-2 (95)	6.6	H
TMF3222-160-2-C3-RB1	E108388-2	160	-	0.4	-	-	46.5	-2 (95)	6.6	H
TMF3222-160-2-C6-RB1	E108388-3	160	-	-	2.7	-	46.5	-2 (95)	6.6	H
TMF3222-160-2-C11-RB1	E108388-4	160	-	-	-	7.1	46.5	-2 (95)	6.6	H
TMF3222-230-2-C2-RB1	E108389-1	230	0.1	-	-	-	48	-2 (95)	9.3	V
TMF3222-230-2-C3-RB1	E108389-2	230	-	0.4	-	-	48	-2 (95)	9.3	V
TMF3222-230-2-C6-RB1	E108389-3	230	-	-	2.7	-	48	-2 (95)	9.3	V
TMF3222-230-2-C11-RB1	E108389-4	230	-	-	-	7.1	48	-2 (95)	9.3	V

High Performance for IT Power Networks

Model Number	Part Number	Current Rating @50°C (A)	Leakage Current @520 VAC/50Hz(mA) C10	Power loss @25°C / 50Hz (W)	Termination 	Min.Weight (kg)	Enclosure
TMF3222IT-10-2-C10-RB1	E108390-1	10	5.9	6.5	-2 (06)	1.1	I
TMF3222IT-16-2-C10-RB1	E108391-1	16	5.9	10	-2 (06)	1.3	J
TMF3222IT-20-2-C10-RB1	E108392-1	20	5.9	13.5	-2 (06)	1.6	K
TMF3222IT-25-2-C10-RB1	E108393-1	25	5.9	16	-2 (06)	1.6	K
TMF3222IT-40-2-C10-RB1	E108394-1	40	5.9	19	-2 (06)	2.8	L
TMF3222IT-50-2-C10-RB1	E108395-1	50	6.5	24	-2 (16)	2.8	M
TMF3222IT-63-2-C10-RB1	E108396-1	63	6.5	30	-2 (16)	2.9	M
TMF3222IT-80-2-C10-RB1	E108397-1	80	7	30	-2 (35)	4.6	N
TMF3222IT-100-2-C10-RB1	E108398-1	100	7	33	-2 (50)	5.4	O
TMF3222IT-125-2-C10-RB1	E108399-1	125	7	42.5	-2 (50)	5.3	O
TMF3222IT-160-2-C10-RB1	E108400-1	160	7	46.5	-2 (95)	6.9	P
TMF3222IT-230-2-C10-RB1	E108401-1	230	7	48	-2 (95)	9.3	V

High Voltage Version

Model Number	Part Number	Current Rating @50°C (A)	Leakage Current @520 VAC/50Hz (mA)		Power loss @25°C / 50Hz (W)	Termination 	Min.Weight (kg)	Enclosure
			C5	C12				
TMF3222HV-10-2-C5-RB1	E108402-1	10	2.2	-	7	-2 (06)	1.2	I
TMF3222HV-10-2-C12-RB1	E108402-2	10	-	8.4	7	-2 (06)	1.2	I
TMF3222HV-16-2-C5-RB1	E108403-1	16	2.5	-	11	-2 (06)	1.5	J
TMF3222HV-16-2-C12-RB1	E108403-2	16	-	9.2	11	-2 (06)	1.5	J
TMF3222HV-20-2-C5-RB1	E108404-1	20	2.5	-	13	-2 (06)	1.8	K
TMF3222HV-20-2-C12-RB1	E108404-2	20	-	10.9	13	-2 (06)	1.8	K
TMF3222HV-25-2-C5-RB1	E108405-1	25	2.5	-	15	-2 (06)	1.9	K
TMF3222HV-25-2-C12-RB1	E108405-2	25	-	10.9	15	-2 (06)	1.9	K
TMF3222HV-40-2-C5-RB1	E108406-1	40	2.6	-	20	-2 (06)	2.9	L
TMF3222HV-40-2-C12-RB1	E108406-2	40	-	12.4	20	-2 (06)	2.9	L
TMF3222HV-50-2-C5-RB1	E108407-1	50	2.6	-	26.5	-2 (16)	3.3	M
TMF3222HV-50-2-C12-RB1	E108407-2	50	-	12.4	26.5	-2 (16)	3.3	M
TMF3222HV-63-2-C5-RB1	E108408-1	63	2.6	-	33.5	-2 (16)	3.5	M
TMF3222HV-63-2-C12-RB1	E108408-2	63	-	12.4	33.5	-2 (16)	3.5	M
TMF3222HV-80-2-C5-RB1	E108409-1	80	2.6	-	29	-2 (35)	4.9	N
TMF3222HV-80-2-C12-RB1	E108409-2	80	-	12.4	29	-2 (35)	4.9	N
TMF3222HV-100-2-C5-RB1	E108411-1	100	2.6	-	33	-2 (50)	5.8	O
TMF3222HV-100-2-C12-RB1	E108411-2	100	-	12.4	33	-2 (50)	5.8	O
TMF3222HV-125-2-C5-RB1	E108412-1	125	2.6	-	42	-2 (50)	5.9	O
TMF3222HV-125-2-C12-RB1	E108412-2	125	-	12.4	42	-2 (50)	5.9	O
TMF3222HV-160-2-C5-RB1	E108413-1	160	2.6	-	46.5	-2 (95)	7.2	P
TMF3222HV-160-2-C12-RB1	E108413-2	160	-	12.4	46.5	-2 (95)	7.2	P
TMF3222HV-230-2-C5-RB1	E108414-1	230	2.6	-	48	-2 (95)	9.3	V
TMF3222HV-230-2-C12-RB1	E108414-2	230	-	12.4	48	-2 (95)	9.3	V

High Voltage Version for IT Power Networks

Model Number	Part Number	Current Rating @50°C (A)	Leakage Current @520 VAC/50Hz (mA)		Power loss @25°C / 50Hz (W)	Termination 	Min. Weight (kg)	Enclosure
			C6	C14				
TMF3222HVIT-10-2-C6-RB1	E108415-1	10	3.6	-	7	-2 (06)	1.2	I
TMF3222HVIT-10-2-C14-RB1	E108415-2	10	-	4.6	7	-2 (06)	1.2	I
TMF3222HVIT-16-2-C6-RB1	E108416-1	16	3.7	-	11	-2 (06)	1.5	J
TMF3222HVIT-16-2-C14-RB1	E108416-2	16	-	6.8	11	-2 (06)	1.5	J
TMF3222HVIT-20-2-C6-RB1	E108417-1	20	3.7	-	13	-2 (06)	1.8	K
TMF3222HVIT-20-2-C14-RB1	E108417-2	20	-	6.8	13	-2 (06)	1.8	K
TMF3222HVIT-25-2-C6-RB1	E108418-1	25	3.7	-	15	-2 (06)	1.9	K
TMF3222HVIT-25-2-C14-RB1	E108418-2	25	-	6.8	15	-2 (06)	1.9	K
TMF3222HVIT-40-2-C6-RB1	E108419-1	40	3.7	-	19.5	-2 (06)	2.9	L
TMF3222HVIT-40-2-C14-RB1	E108419-2	40	-	6.8	19.5	-2 (06)	2.9	L
TMF3222HVIT-50-2-C6-RB1	E108420-1	50	3.7	-	26.5	-2 (16)	3.3	M
TMF3222HVIT-50-2-C14-RB1	E108420-2	50	-	6.8	26.5	-2 (16)	3.3	M
TMF3222HVIT-63-2-C6-RB1	E108421-1	63	3.7	-	33.5	-2 (16)	3.5	M
TMF3222HVIT-63-2-C14-RB1	E108421-2	63	-	6.8	33.5	-2 (16)	3.5	M
TMF3222HVIT-80-2-C6-RB1	E108422-1	80	3.7	-	29	-2 (35)	4.9	N
TMF3222HVIT-80-2-C14-RB1	E108422-2	80	-	6.8	29	-2 (35)	4.9	N
TMF3222HVIT-100-2-C6-RB1	E108423-1	100	3.7	-	33	-2 (50)	5.8	O
TMF3222HVIT-100-2-C14-RB1	E108423-2	100	-	6.8	33	-2 (50)	5.8	O
TMF3222HVIT-125-2-C6-RB1	E108424-1	125	3.7	-	42.5	-2 (50)	5.9	O
TMF3222HVIT-125-2-C14-RB1	E108424-2	125	-	6.8	42.5	-2 (50)	5.9	O
TMF3222HVIT-160-2-C6-RB1	E108425-1	160	3.7	-	46.5	-2 (95)	7.2	P
TMF3222HVIT-160-2-C14-RB1	E108425-2	160	-	6.8	46.5	-2 (95)	7.2	P
TMF3222HVIT-230-2-C6-RB1	E108426-1	230	3.7	-	47.5	-2 (95)	9.3	V
TMF3222HVIT-230-2-C14-RB1	E108426-2	230	-	12.4	47.5	-2 (95)	9.3	V

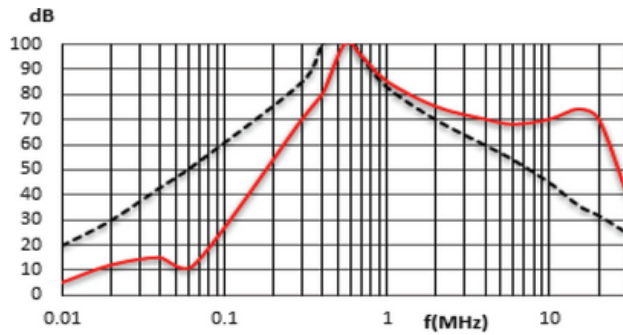
Note: Standardized Leakage Current calculation as per IEC 60939 under normal operating conditions

Insertion Loss:

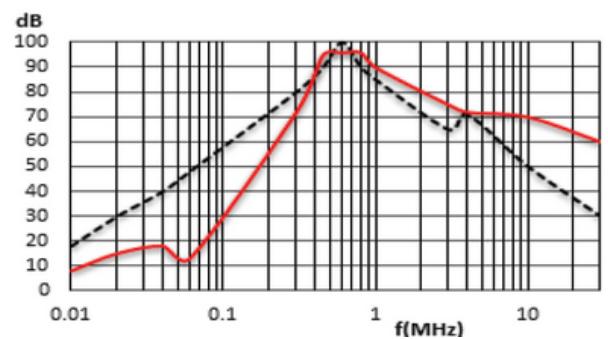
----- Common mode ——— Differential Mode

Per CISPR 17; C=50 Ω /50 Ω D=50 Ω /50 Ω

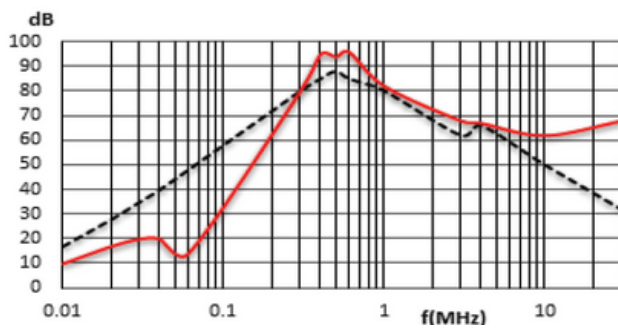
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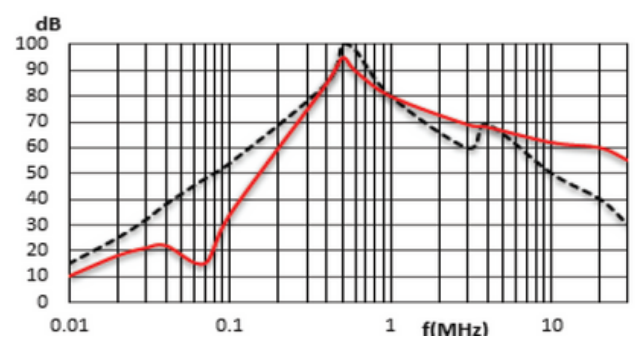
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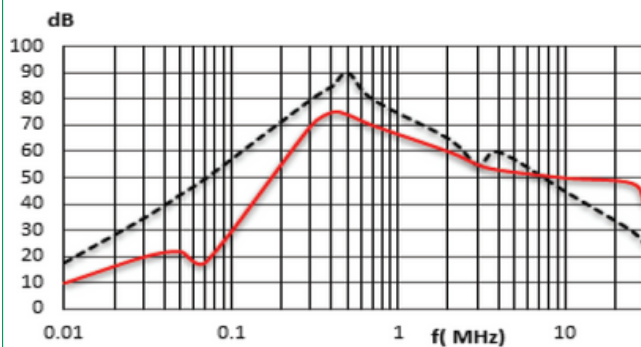
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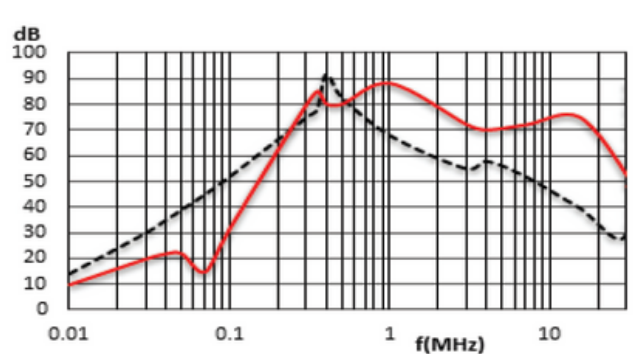
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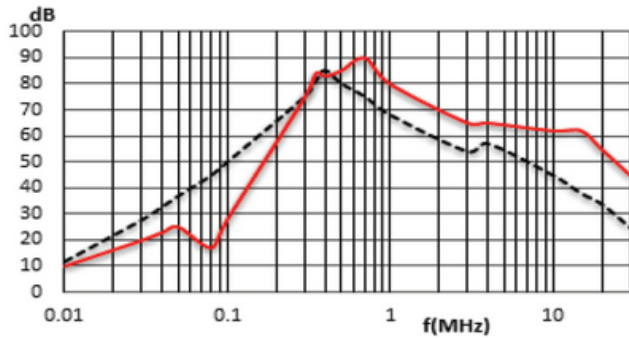
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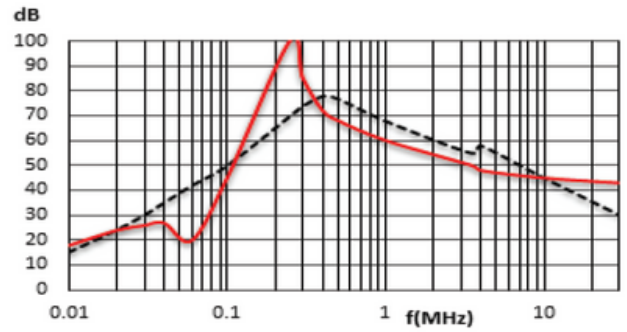
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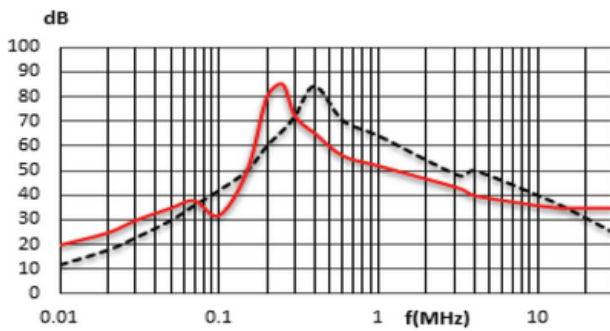
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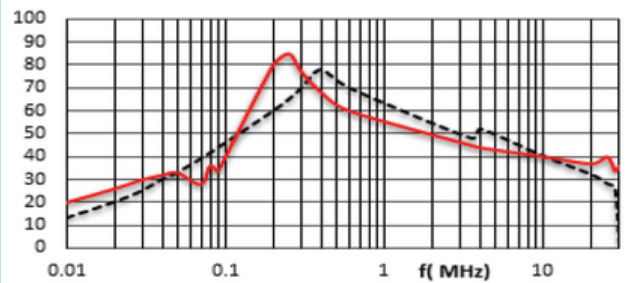
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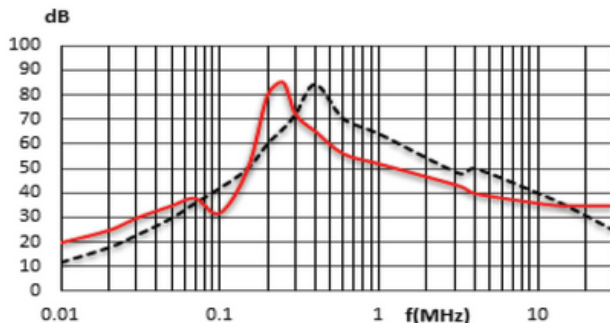
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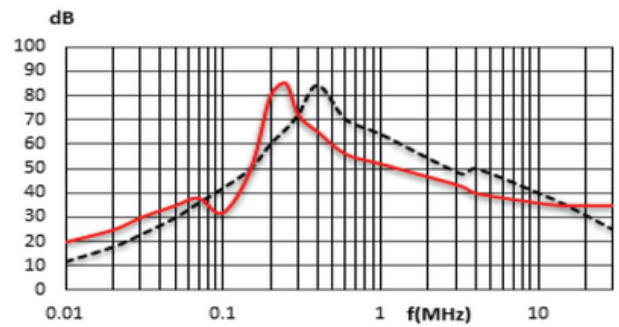
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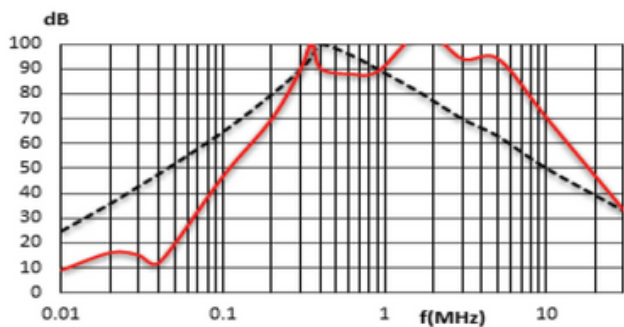
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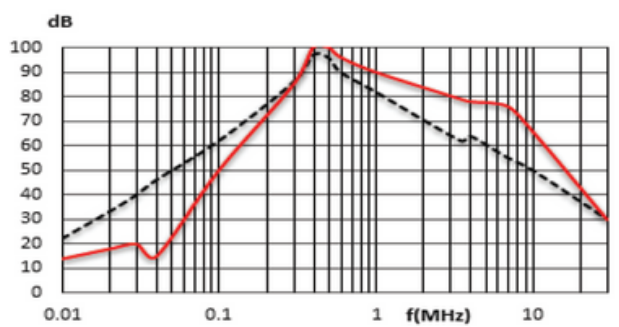
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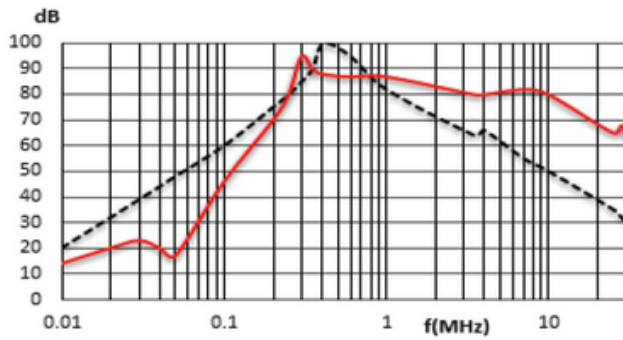
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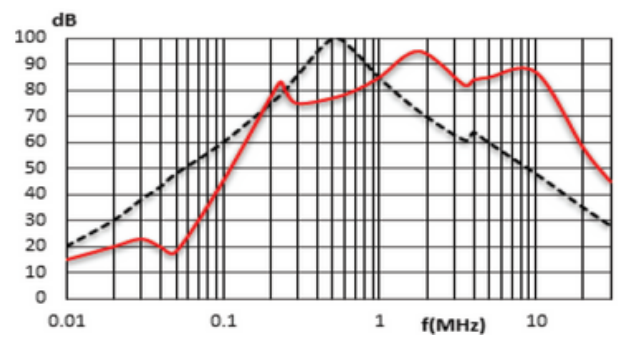
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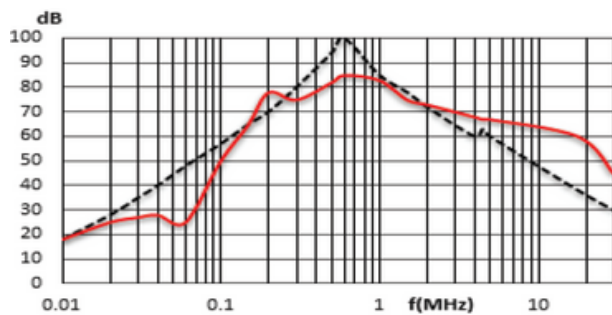
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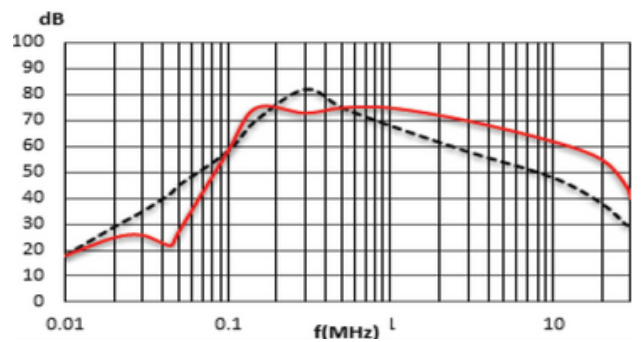
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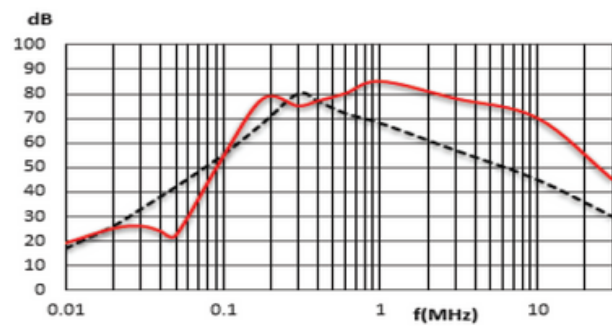
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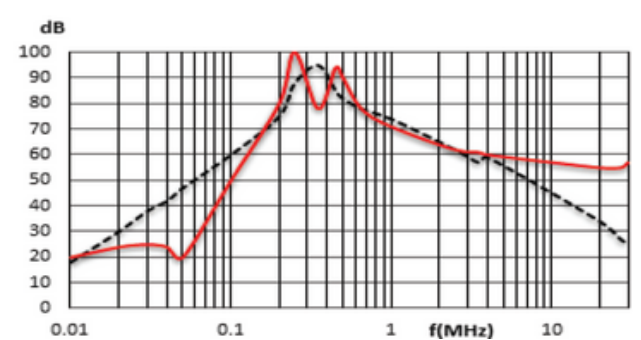
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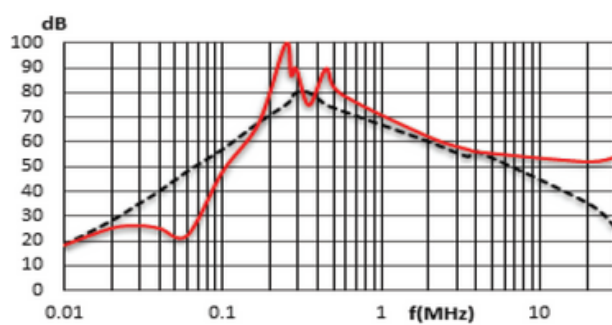
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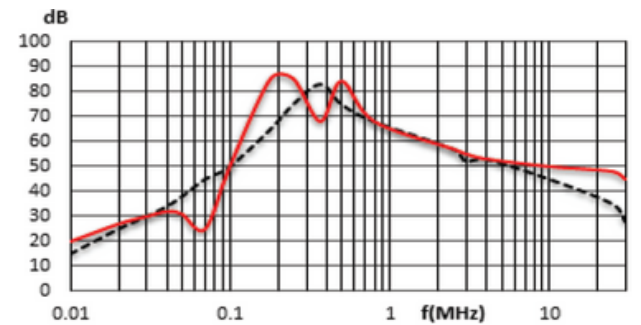
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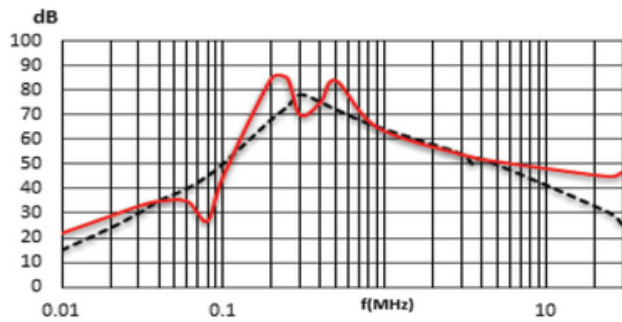
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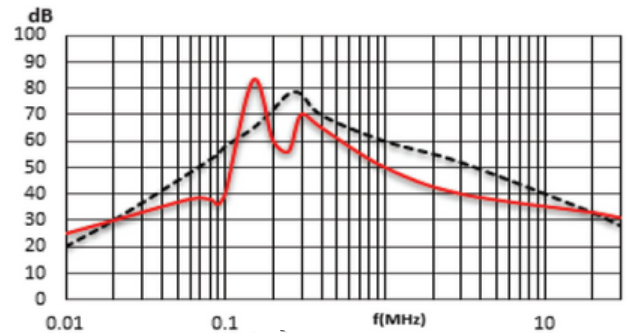
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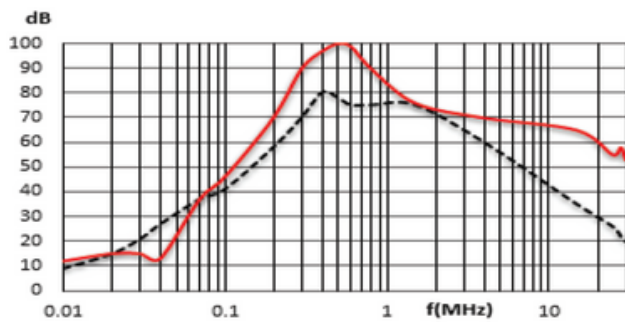
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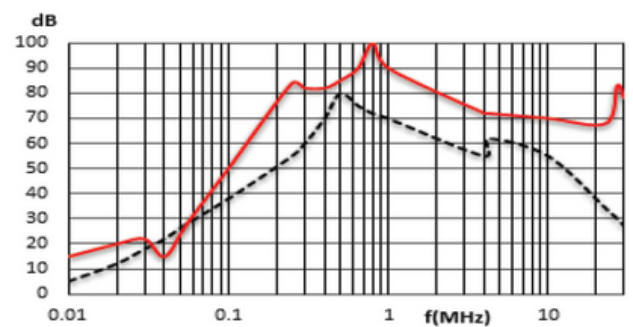
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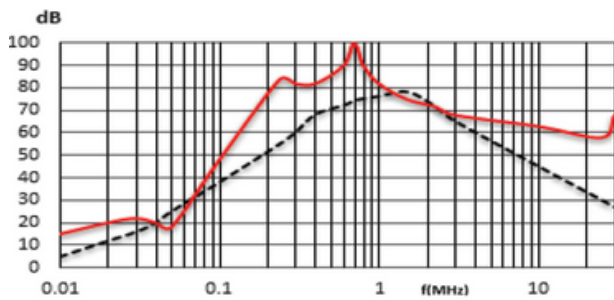
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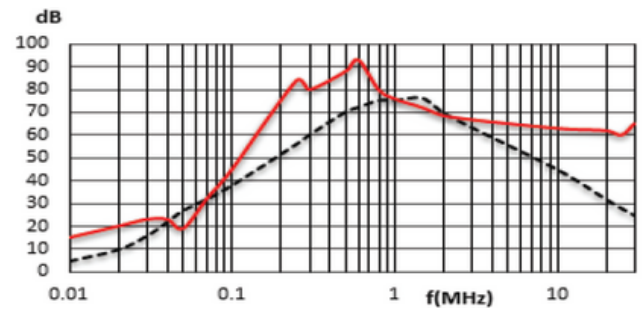
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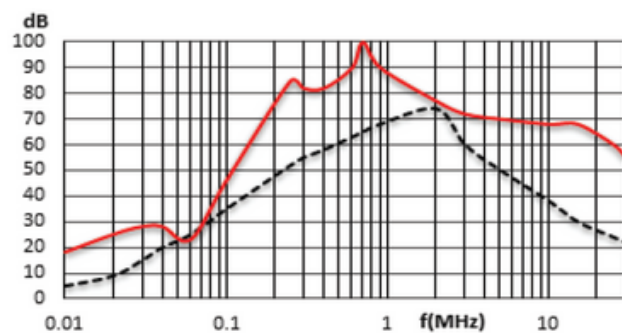
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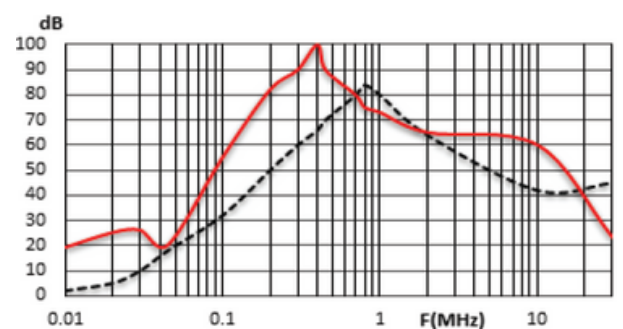
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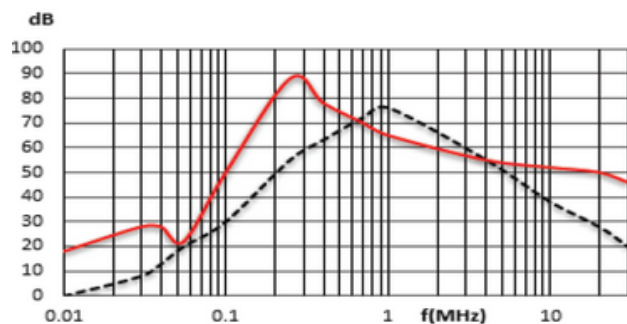
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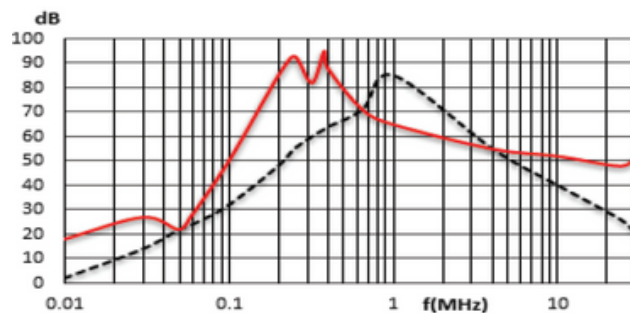
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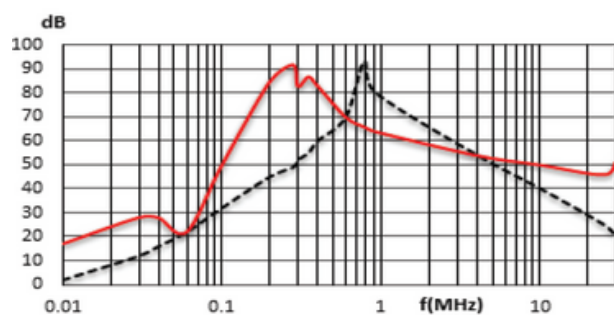
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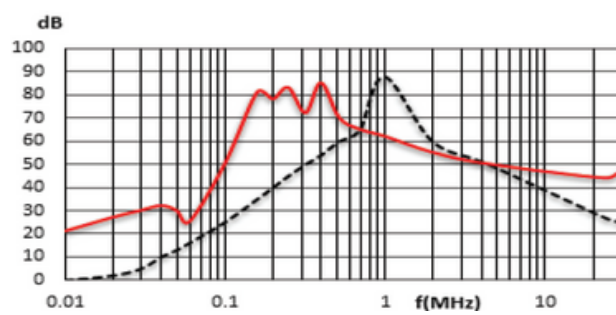
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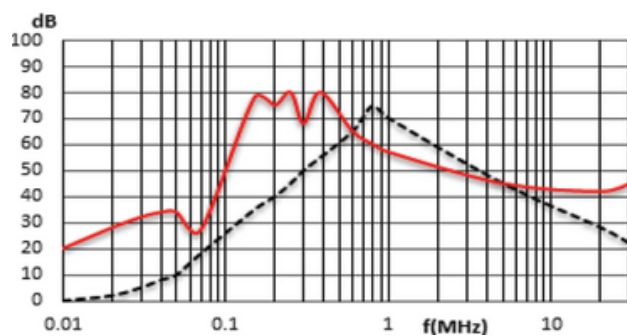
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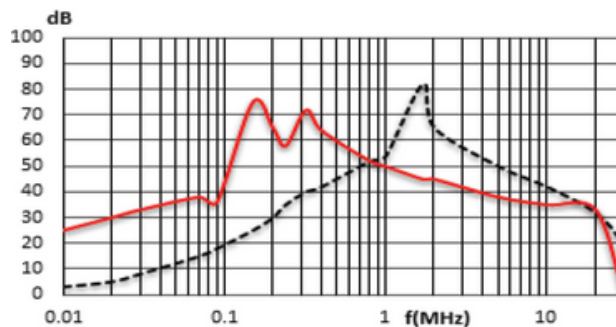
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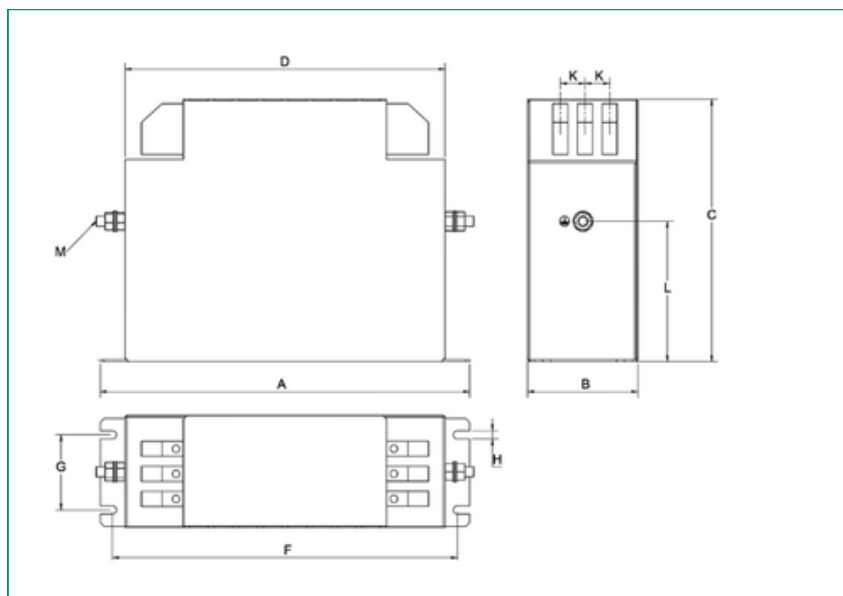
TMF3222-160-2-C3-RB1



TMF3222-230-2-C3-RB1



Mechanical Drawing



Connector Cross Sections

	6	16	35	50	95
Wire range	8 to 26 AWG	4 to 20 AWG	2 to 8 AWG	6 to 1/0 AWG	AWG 4/0
Stripping Length	9mm	16mm	19mm	24mm	27mm
Recommended torque (Nm)	1.19 to 1.46	2.48 to 2.82	2.48 to 2.82	4.29 to 4.51	3.5-6

Mechanical Dimensions

Enclosure	A	B	C	D	F	G	H	K	L±1	M
A	185	40	120	157	175	20	4.5	11	76	M5
B	195	45	140	164	180	25	5.4	11	93	M5
C	210	45	145	174	195	25	5.4	13	96	M5
D	235	50	168	207	220	30	5.4	13	115	M6
E	255	65	180	226	240	45	5.4	16	120	M6
F	290	80	205	250	270	50	6.5	22	110	M6
G	300	90	210	260	280	60	6.5	25	112	M8
H	310	100	225	270	290	70	6.5	28	110	M10
I	230	50	132	203	220	30	4.5	12.5	88	M5
J	230	55	159	198	215	35	5.4	13	112	M5
K	245	55	167	212	230	35	5.4	13	118	M5
L	265	60	191	237	250	40	5.4	13	135	M6
M	265	70	194	237	250	50	5.4	16	133	M6
N	310	95	220	270	290	65	6.5	22	125	M6
O	320	95	230	280	300	65	6.5	25	127	M8
P	330	100	240	290	310	70	6.5	30	127	M10
Q	180	40	112	153	170	20	4.5	11	68	M5
R	200	45	120	170	185	25	5.4	11	76	M5
S	205	45	132	173	190	25	5.4	13	83	M5
T	215	50	147	185	200	30	5.4	13	95	M6
U	220	65	180	186	205	45	5.4	16	120	M6
V	350	105	240	310	330	70	6.5	30.5	125	M10

All dimensions in mm; Tolerance according to ISO 2768-C