

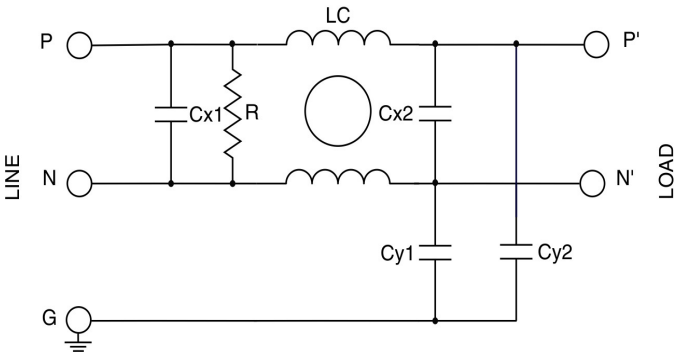
Features

- High EMI attenuation
- Rated up to 30A
- One stage filters designed for noisy application requiring excellent filter performance
- Designed for easy and fast chassis mounting

Applications

- UPS/Inverters
- Industrial applications
- Medical equipment
- Electrical equipment application
Stepper Motor Drives

Typical Circuit Diagram






Approvals & Compliances






Technical Specifications

Maximum continuous operating voltage:	250 VAC, 50/60Hz, 250 VDC
Operating Frequency:	DC to 400Hz
Rated Currents:	1A to 30A @40°C
High Potential test voltage:	P to N 1075VDC for 2 Sec P to G 2250VDC for 2 Sec P to G 1500VAC 2 Sec (M Types)
Overload Capability:	4x rated current at switch on 1.5x rated current for 1 minute, once per hour
Design corresponding to:	UL 60939-3 and IEC 60939-1&2
Temperature range:	-25°C to +100°C
Climatic category:	25/100/21
Flammability corresponding to:	UL 94 V-0 or better
Protection category:	IP 20




Selection Table

STANDARD VERSION							
Available Part Numbers	Current Rating @ 40°C (A)	Leakage current @ 250 VAC/50 Hz (mA)	Power loss 50Hz (W)	Termination			Weight Approx. (g)
							
AMI-1030-1-1	1	0.4	1	-1	-	-	70
AMI-1030-1-3	1	0.4	1	-	-3	-	70
AMI-1030-3-1	3	0.5	2.5	-1	-	-	110
AMI-1030-3-3	3	0.5	2.5	-	-3	-	110
AMI-1030-4-1	4	0.5	3	-1	-	-	120
AMI-1030-4-3	4	0.5	3	-	-3	-	120
AMI-1030-6-1	6	0.7	3.5	-1	-	-	120
AMI-1030-6-3	6	0.7	3.5	-	-3	-	120
AMI-1030-8-1	8	0.7	4	-1	-	-	200
AMI-1030-8-3	8	0.7	4	-	-3	-	200
AMI-1030-10-1	10	0.7	5.5	-1	-	-	200
AMI-1030-10-3	10	0.7	5.5	-	-3	-	200
AMI-1030-12-1	12	0.8	8	-1	-	-	270
AMI-1030-12-3	12	0.8	8	-	-3	-	270
AMI-1030-16-1	16	0.8	6.5	-1	-	-	270
AMI-1030-16-3	16	0.8	6.5	-	-3	-	270
AMI-1030-16-6	16	0.8	6.5	-	-	-6	270
AMI-1030-20-1	20	0.8	5	-1	-	-	330
AMI-1030-20-6	20	0.8	5	-	-	-6	330
AMI-1030-30-6	30	0.8	6	-	-	-6	350




Selection Table

SAFETY VERSION							
Available Part Numbers	Current Rating @ 40°C (A)	Leakage current @ 250 VAC/50 Hz (mA)	Power loss 50Hz (W)	Termination			Weight Approx. (g)
							
AMI-1030A-1-1	1	0.1	1	-1	-	-	70
AMI-1030A-1-3	1	0.1	1	-	-3	-	70
AMI-1030A-3-1	3	0.1	2.5	-1	-	-	110
AMI-1030A-3-3	3	0.1	2.5	-	-3	-	110
AMI-1030A-4-1	4	0.1	3	-1	-	-	120
AMI-1030A-4-3	4	0.1	3	-	-3	-	120
AMI-1030A-6-1	6	0.1	3.5	-1	-	-	120
AMI-1030A-6-3	6	0.1	3.5	-	-3	-	120
AMI-1030A-8-1	8	0.1	4	-1	-	-	200
AMI-1030A-8-3	8	0.1	4	-	-3	-	200
AMI-1030A-10-1	10	0.1	5.5	-1	-	-	200
AMI-1030A-10-3	10	0.1	5.5	-	-3	-	200
AMI-1030A-12-1	12	0.1	8	-1	-	-	270
AMI-1030A-12-3	12	0.1	8	-	-3	-	270
AMI-1030A-16-1	16	0.1	6.5	-1	-	-	270
AMI-1030A-16-3	16	0.1	6.5	-	-3	-	270
AMI-1030A-16-6	16	0.1	6.5	-	-	-6	270
AMI-1030A-20-1	20	0.1	5	-1	-	-	330
AMI-1030A-20-6	20	0.1	5	-	-	-6	330
AMI-1030A-30-6	30	0.1	6	-	-	-6	350

Selection Table

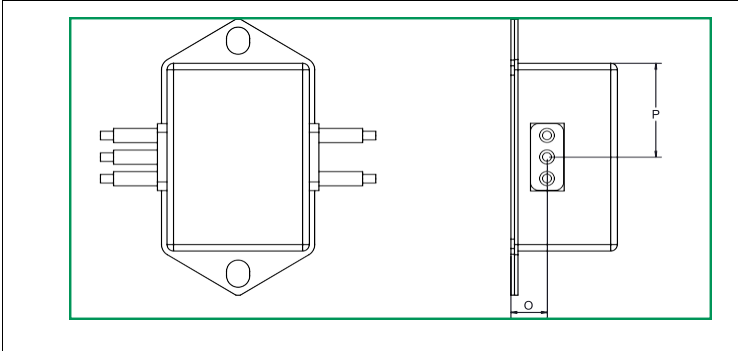
MEDICAL VERSION							
Available Part Numbers	Current Rating @ 40°C (A)	Leakage current @ 250 VAC/50 Hz (mA)	Power loss 50Hz (W)	Termination			Weight Approx. (g)
							
AMI-1030B-1-1	1	0.005	1	-1	-	-	70
AMI-1030B-1-3	1	0.005	1	-	-3	-	70
AMI-1030B-3-1	3	0.005	2.5	-1	-	-	110
AMI-1030B-3-3	3	0.005	2.5	-	-3	-	110
AMI-1030B-4-1	4	0.005	3	-1	-	-	120
AMI-1030B-4-3	4	0.005	3	-	-3	-	120
AMI-1030B-6-1	6	0.005	3.5	-1	-	-	120
AMI-1030B-6-3	6	0.005	3.5	-	-3	-	120
AMI-1030B-8-1	8	0.005	4	-1	-	-	200
AMI-1030B-8-3	8	0.005	4	-	-3	-	200
AMI-1030B-10-1	10	0.005	5.5	-1	-	-	200
AMI-1030B-10-3	10	0.005	5.5	-	-3	-	200
AMI-1030B-12-1	12	0.005	8	-1	-	-	270
AMI-1030B-12-3	12	0.005	8	-	-3	-	270
AMI-1030B-16-1	16	0.005	6.5	-1	-	-	270
AMI-1030B-16-3	16	0.005	6.5	-	-3	-	270
AMI-1030B-16-6	16	0.005	6.5	-	-	-6	270
AMI-1030B-20-1	20	0.005	5	-1	-	-	330
AMI-1030B-20-6	20	0.005	5	-	-	-6	330
AMI-1030B-30-6	30	0.005	6	-	-	-6	350

Selection Table

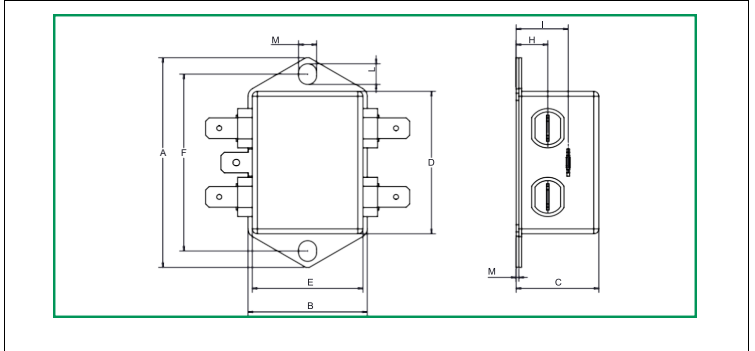
ENHANCED VERSION							
Available Part Numbers	Current Rating @ 40°C (A)	Leakage current @ 250 VAC/50 Hz (mA)	Power loss 50Hz (W)	Termination			Weight Approx. (g)
							
AMI-1030N-1-1	1	6	1	-1	-	-	70
AMI-1030N-3-1	3	4	2.5	-1	-	-	110
AMI-1030N-4-1	4	4	3	-1	-	-	120
AMI-1030N-6-1	6	4	3.5	-1	-	-	120
AMI-1030N-8-1	8	6	4	-1	-	-	200
AMI-1030N-10-1	10	6	5.5	-1	-	-	200
AMI-1030N-12-1	12	6	8	-1	-	-	270
AMI-1030N-16-1	16	4	6.5	-1	-	-	270
AMI-1030N-16-6	16	4	6.5	-	-	-6	270
AMI-1030N-20-1	20	4	5	-1	-	-	330
AMI-1030N-20-6	20	4	5	-	-	-6	330
AMI-1030N-30-6	30	4	6	-	-	-6	350

Mechanical Drawing

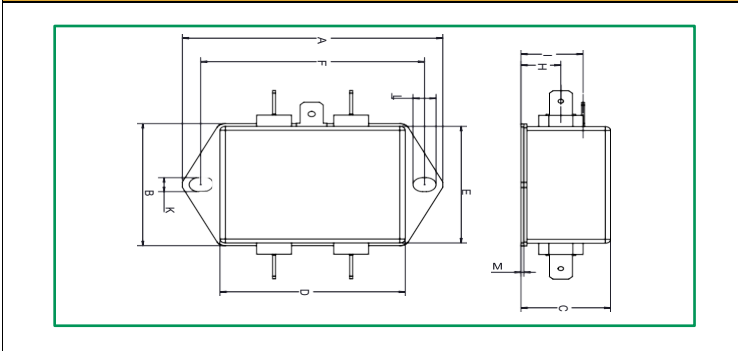
Connection style -04, 1A types



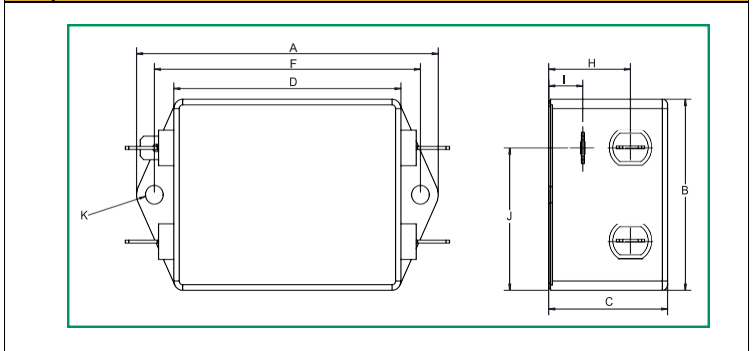
Connection style -04, 3A to 6A types



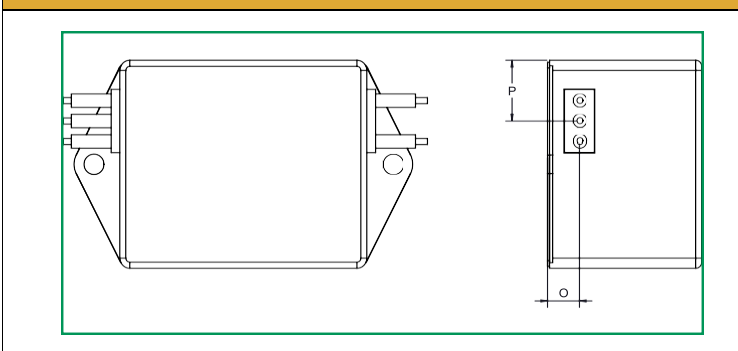
Connection style -04, 8A to 30A types



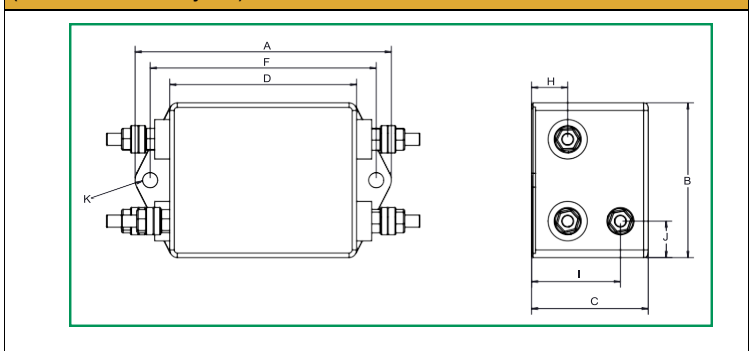
Connection style -05, 1A type (same dimensions as style -04)



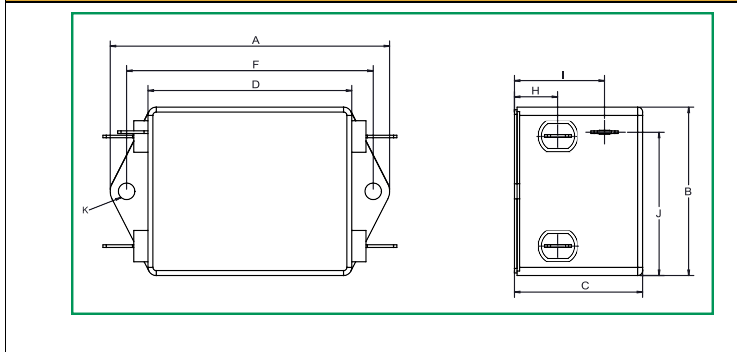
Connection style -05, 3A to 6A types (same dimensions as style -04)



Connection style -05, 8A to 30A types (same dimensions as style -04)



Connection style -01, 10A to 30A types



Mechanical Dimensions:

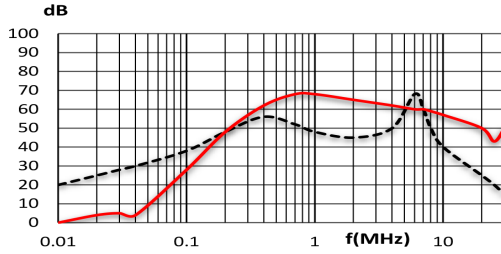
	1A	3A	4A	6A	8A	10A	12A	16A	20A	30A
A	64±1	71±1	71±1	71±1	85±1	85±1	85±1	85±1	85±1	85±1
B	35±1	46.6±1	46.6±1	46.6±1	51±1	51±1	51±1	51±1	51±1	51±1
C	24.3±1	22.3±1	22.3±1	22.3±1	32.5±1	32.5±1	32.5±1	39±1	39±1	39±1
D	43.5±1	50.5±1	50.5±1	50.5±1	64±1	64±1	64±1	62±1	62±1	62±1
E	32.5	44.5	44.5	44.5	-	-	-	-	-	-
F	54	61	61	61	75	75	75	75	75	75
H	9.3	10.8	10.8	10.8	21.5	21.5	21.5	13	13	13
I	15.3	16.8	16.8	16.8	9	9	9	27.5	27.5	27.5
K	5.3	5.3	5.3	5.3	5	5	5	5	5	5
L	6.3	6.3	6.3	6.3	-	-	-	-	-	-
M	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Connection Style-04	-	-	-	-	-	-	-	-	-	-
N	6.3x0.8	6.3X0.8	6.3X0.8	6.3X0.8	6.3X0.8	6.3X0.8	6.3X0.8	6.3X0.8	6.3X0.8	
Connection Style-05	-	-	-	-	-	-	-	-	-	-
O	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	-	-
P	21.8	14	14	14	14.9	14.9	14.9	14.9	-	-
AWG Type Wire	AWG 20	AWG 20	AWG 20	AWG 18	AWG 18	AWG 18	AWG 16	AWG 16	-	-
Wire Length	140	140	140	140	140	140	140	140	-	-
Connection Style-01	-	-	-	-	-	-	-	-	-	-
N	-	-	-	-	-	-	-	M4	M4	M4
Recommended torque (Nm)	-	-	-	-	-	-	-	1.2-1.3	1.2-1.3	1.2-1.3
Earth terminal Recommended torque (Nm)	-	-	-	-	-	-	-	1.5-1.7	1.5-1.7	1.5-1.7

Typical Insertion Loss

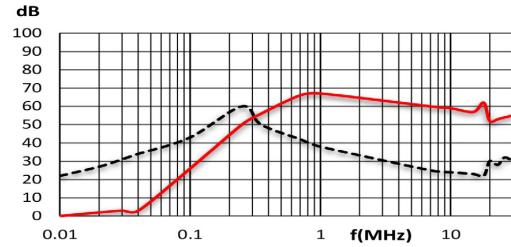
According to CISPR17 in 50 Ω system

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

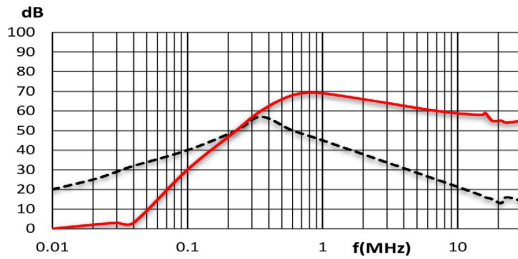
1A Standard Version



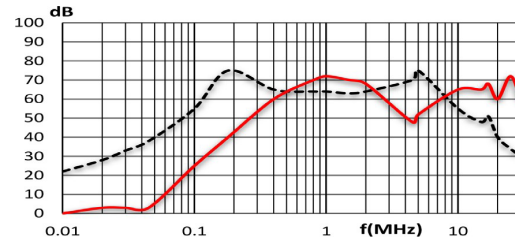
Safety Version



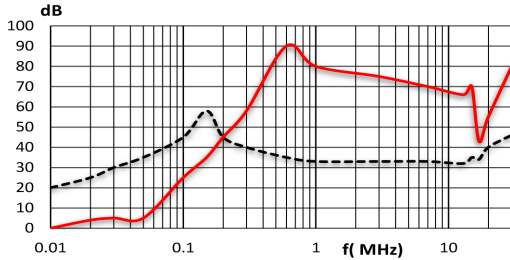
Medical Version



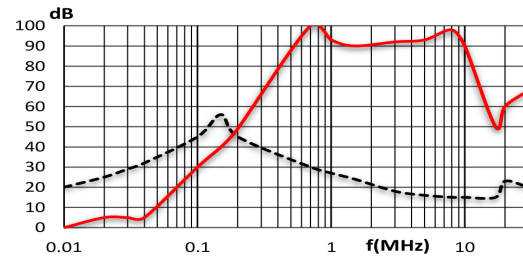
Enhanced Performance



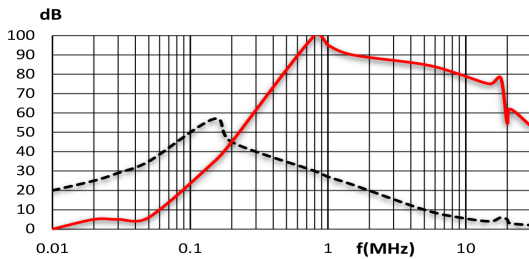
3A Standard Version



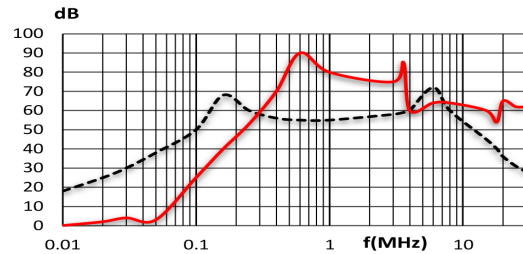
Safety Version



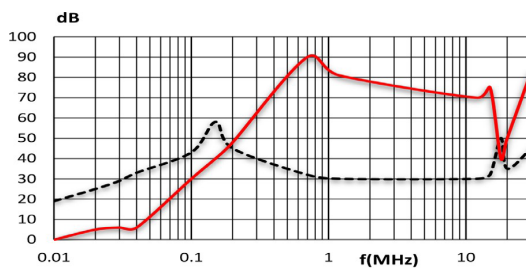
Medical Version



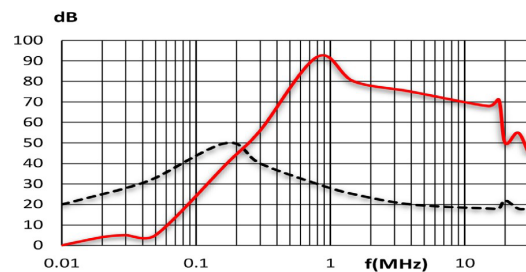
Enhanced Performance



4A Standard Version



Safety Version

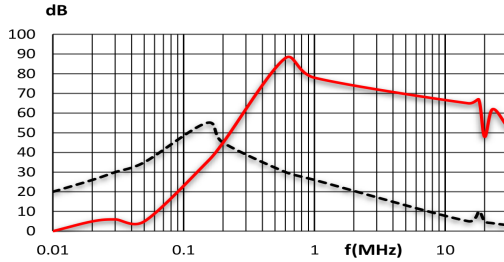


Typical Insertion Loss

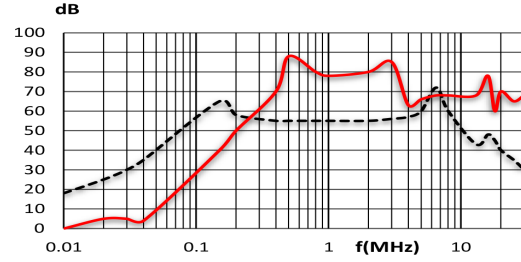
According to CISPR17 in 50 Ω system

— Common Mode / Asymmetrical (L-G)

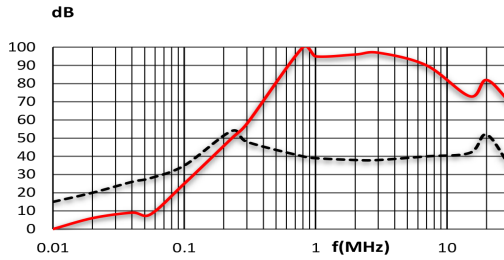
Medical Version



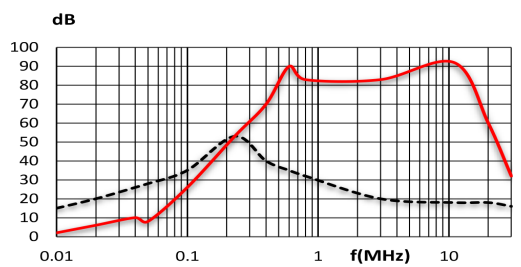
Enhanced Performance



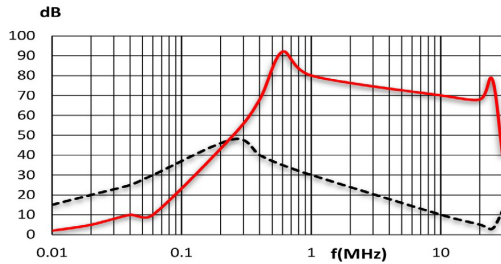
6A Standard Version



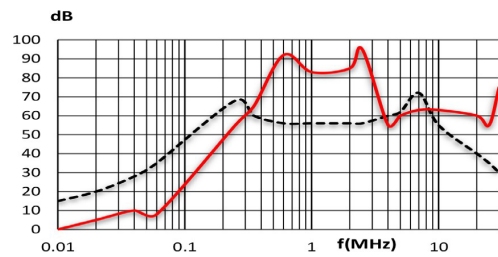
Safety Version



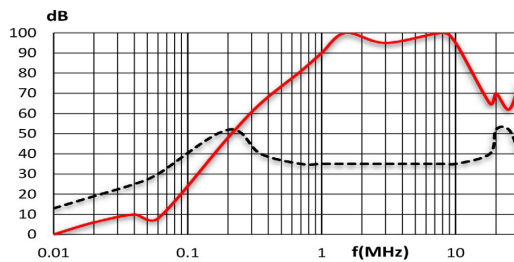
Medical Version



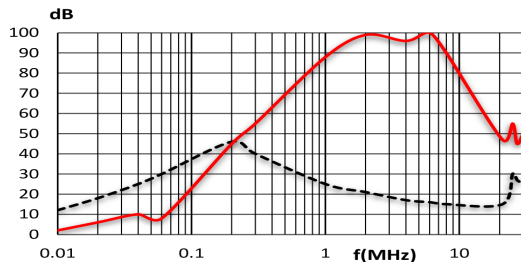
Enhanced Performance



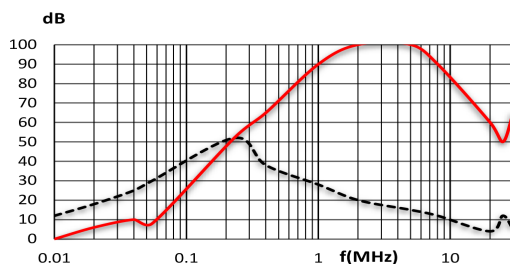
8A Standard Version



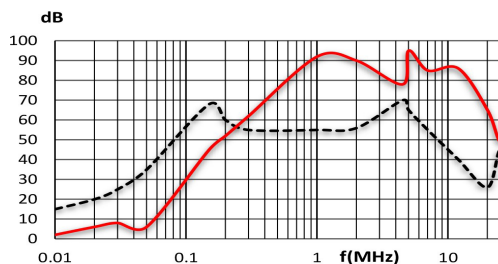
Safety Version



Medical Version



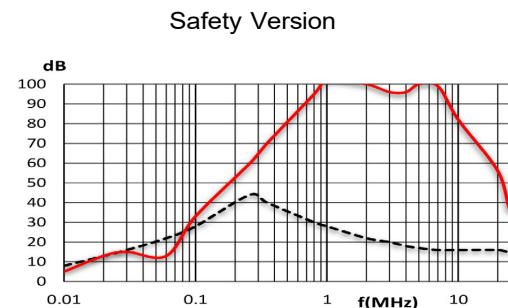
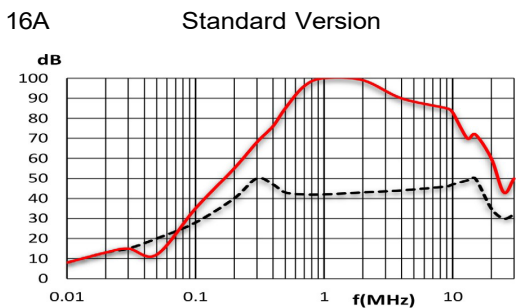
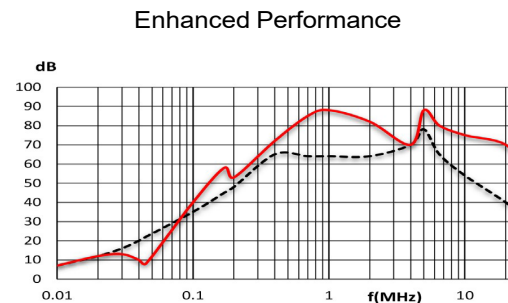
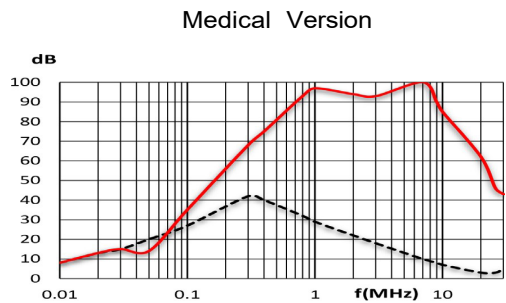
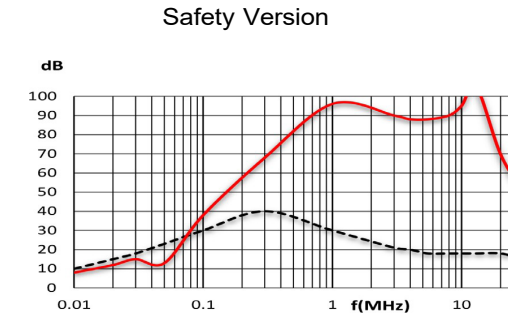
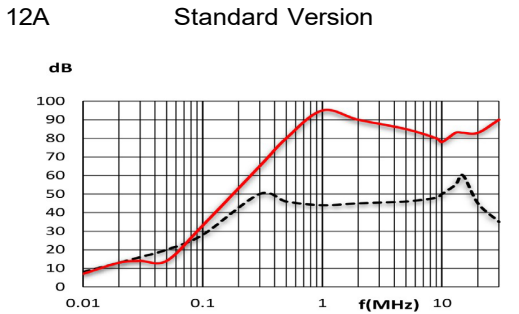
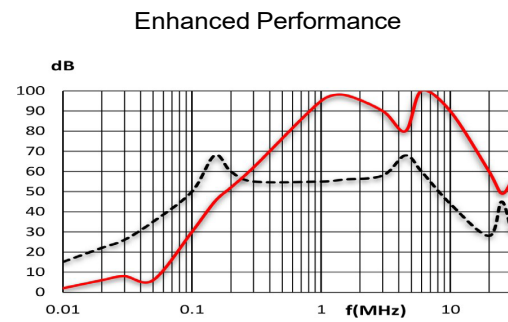
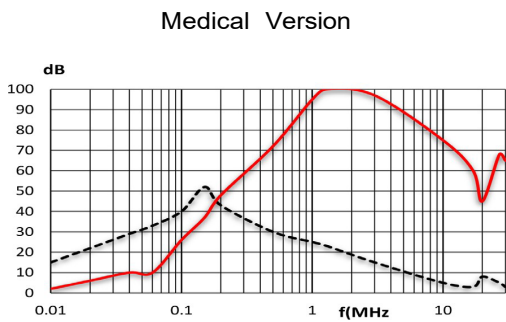
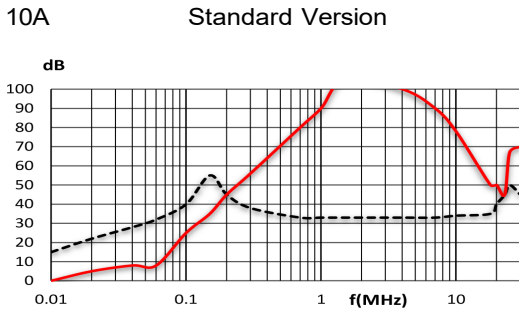
Enhanced Performance



Typical Insertion Loss

According to CISPR17 in 50 Ω system

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

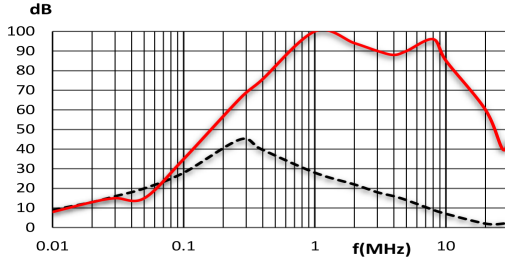


Typical Insertion Loss

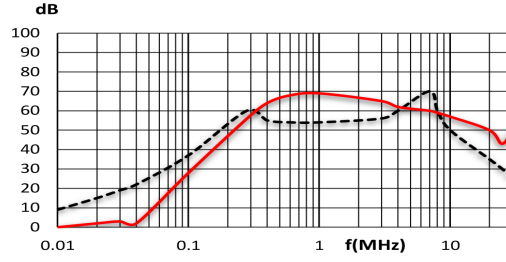
According to CISPR17 in 50 Ω system

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

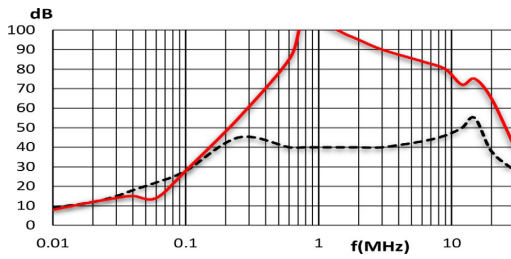
Medical Version



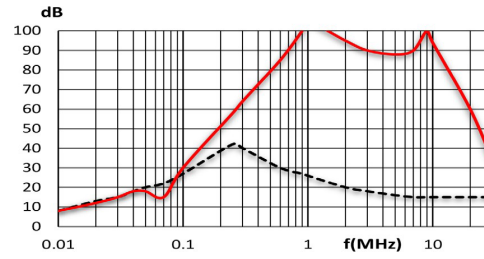
Enhanced Performance



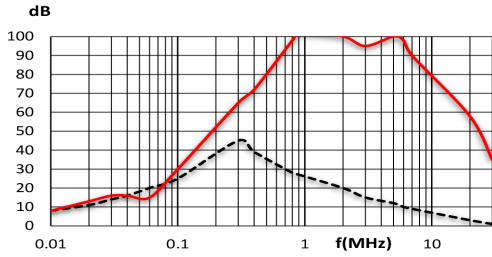
20A Standard Version



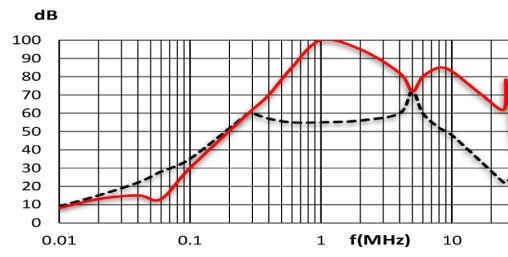
Safety Version



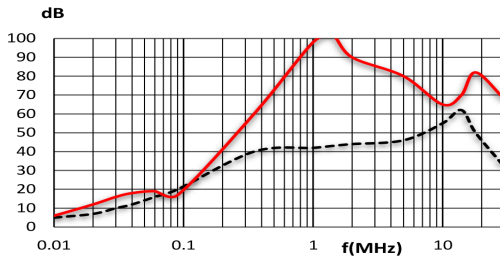
Medical Version



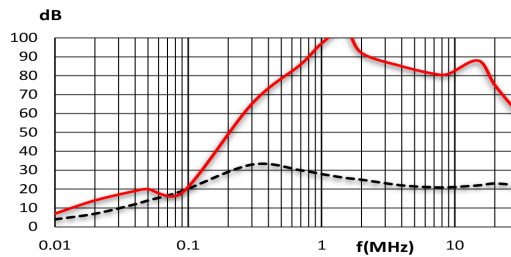
Enhanced Performance



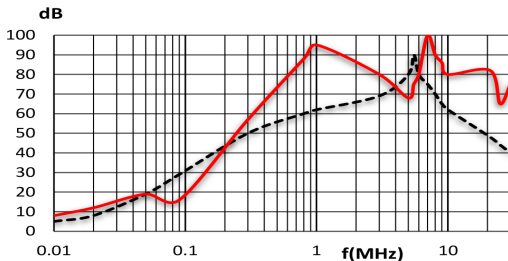
30A Standard Version



Safety Version



Medical Version



Enhanced Performance

