

EMC Filters for AC Power Line

For Single-phase, Mid-size Box Cased ZRGS-00 Series

Conformity to RoHS Directive

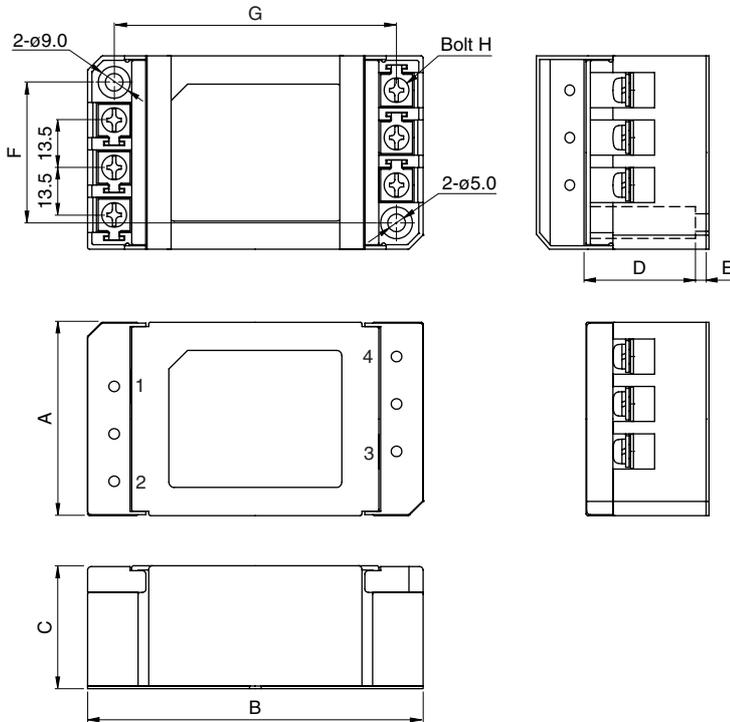
FEATURES

- Excellent noise attenuation in the low range making it perfect EMC prevention equipment for inverters.
- Screw terminal has a spring which moves the washer up and has a safe design to prevent the screw from falling.
- It is a product conforming to RoHS directive.

APPLICATIONS

- Power line noise prevention
- Machine tools and NC control devices
- Medical equipment such as MRIs
- Other industrial equipment

SHAPES AND DIMENSIONS



SAFETY STANDARDS

Part No.	Standard and standard No.		
	U.S.A	Canada	Europe
	UL	CSA	NEMKO
	UL1283	CSA C22.2 No.8	EN60939
ZRGS2003-00	E62388	LR76849C	P08209003
ZRGS2006-00	E62388	LR76849C	P08209003
ZRGS2010-00	E62388	LR76849C	P08209003
ZRGS2016-00	E62388	LR76849C	P08209003
ZRGS2020-00	E62388	LR76849C	P08209003
ZRGS2030-00	E62388	LR76849C	P08209003



Part No.	Dimensions in mm							
	A	B	C	D	E	F	G	H
ZRGS2003-00	55	80	35	29.8	3	40	65	M4
ZRGS2006-00	55	95	35	29.8	3	40	80	M4
ZRGS2010-00	55	95	35	29.8	3	40	80	M4
ZRGS2016-00	55	95	35	29.8	3	40	80	M4
ZRGS2020-00	55	95	35	29.8	3	40	80	M4
ZRGS2030-00	55	95	35	29.8	3	40	80	M4

- Case:plastic, block terminal: phillips head screw terminals, base: metal

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

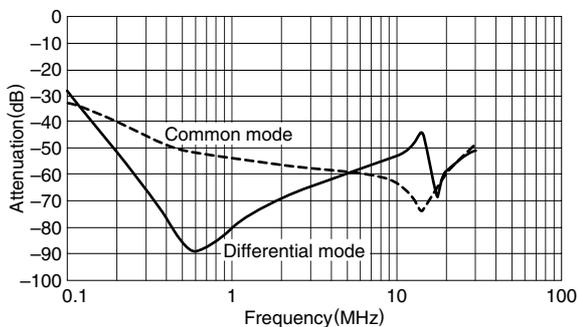
ELECTRICAL CHARACTERISTICS

Part No.	ZRGS2003-00	ZRGS2006-00	ZRGS2010-00	ZRGS2016-00	ZRGS2020-00	ZRGS2030-00
Rated voltage Eac(V)	250	250	250	250	250	250
Rated current(A)	3	6	10	16	20	30
Test voltage Eac (V) [Between terminal and ground terminal]	2500	2500	2500	2500	2500	2500
Insulation resistance (M Ω) [DC.500V,1min / between terminal and ground terminal]	100min.	100min.	100min.	100min.	100min.	100min.
Leakage current (mA)[250V • 60Hz]	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.	1.0max.
DC resistance (m Ω)	270max.	95max.	40max.	22max.	14max.	8max.
Operating temperature range (°C) [Including self-temperature rise]	-25 to +85					
With derating over(°C)	55	55	55	55	55	55
Temperature rise (°C)	30max.	30max.	30max.	30max.	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 40dB 0.3 to 30	Differential mode at 40dB 0.3 to 30	Differential mode at 40dB 0.3 to 30	Differential mode at 40dB 0.5 to 30	Differential mode at 40dB 0.5 to 30	Differential mode at 40dB 0.7 to 30
	Common mode at 20dB 0.1 to 30	Common mode at 20dB 0.1 to 10	Common mode at 20dB 0.2 to 10	Common mode at 20dB 0.3 to 10	Common mode at 20dB 0.5 to 10	Common mode at 20dB 2.0 to 10
Weight (g)	195	255	265	265	265	265

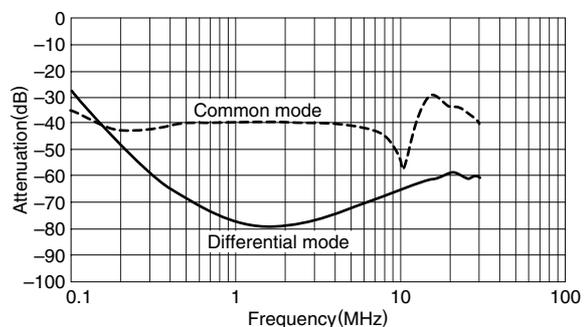
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

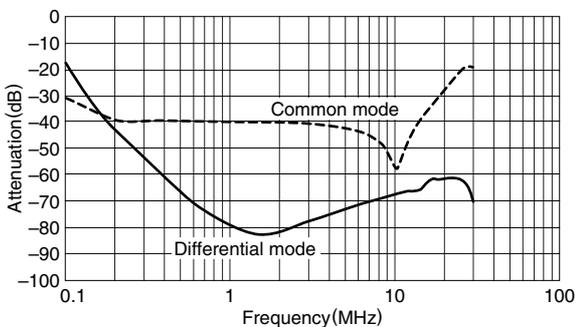
ZRGS2003-00



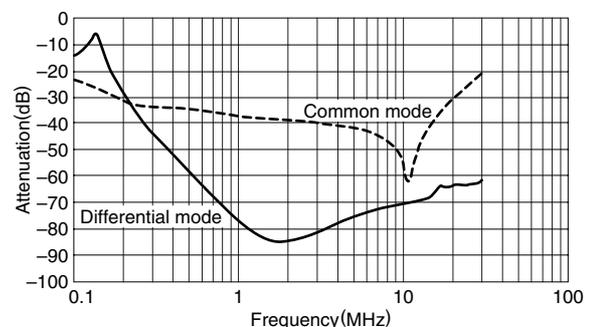
ZRGS2006-00



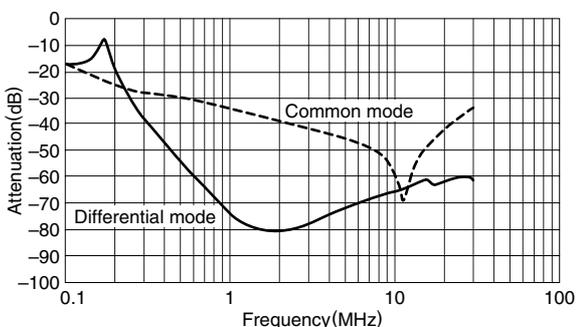
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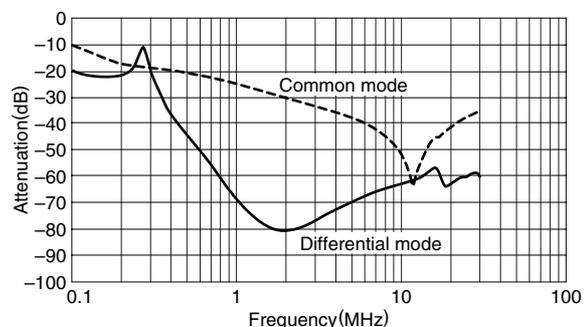
ZRGS2016-00



ZRGS2020-00



ZRGS2030-00



CIRCUIT DIAGRAM

