

EMC Components

EMC Filters for AC Power Supply Cased (Compact Size)

ZHG-11S Series

FEATURES

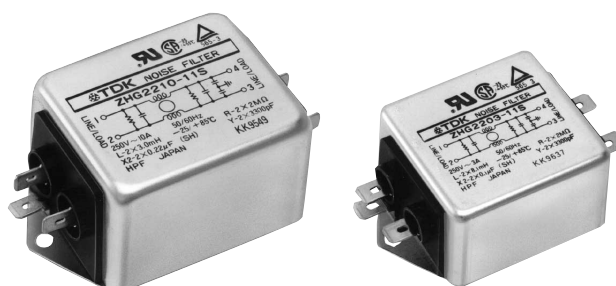
- The ZHG-11S series are EMC filters designed to prevent malfunctions in microcomputers. They employ advanced amorphous magnetic materials in the common-mode choke coil to achieve superior performance characteristics.
- They provide substantial attenuation of high-voltage pulses in power supply lines, exhibiting more than 20dB attenuation for a 2kV, 1μs pulse.
- Leakage current is maintained at less than 0.75mA.
- These filters are highly reliable and provide stable attenuation performance even in harsh environments, where the filters may be subjected to humidity, vibration, and shock.
- Efficient manufacturing makes these filters highly cost-effective.
- Connection terminals employing Faston® #250 facilitate implementation and maintenance.

SAFETY STANDARDS

Part No.	UL	CSA	TÜV
ZHG2203-11S	E62388	LR76849C	R50054
ZHG2206-11S	E62388	LR76849C	R50054
ZHG2210-11S	E62388	LR76849C	R30106

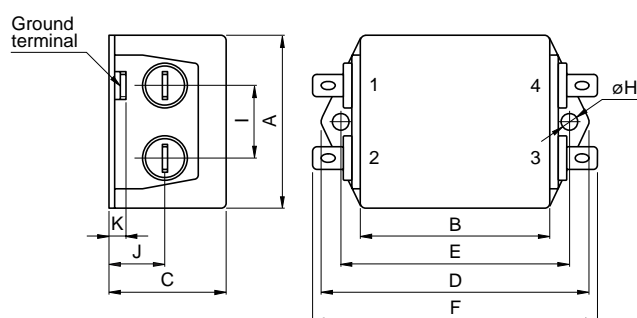
APPLICATIONS

Computers and peripheral terminals, general control devices, office automation equipment, and other industrial devices.

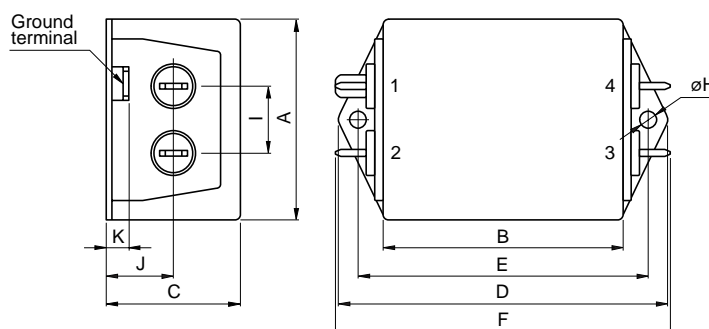


SHAPES AND DIMENSIONS

ZHG2203-11S



ZHG2206-11S, ZHG2210-11S



Dimensions in mm

Part No.	A	B	C	D	E	F	øH	I	J	K
ZHG2203-11S	45.5	49	29.5	70	60.4	75	4.8	16	14	6.4
ZHG2206-11S	50.8	62	40	85	75	87	4.8	18	18.5	6.4
ZHG2210-11S	50.8	62	40	85	75	87	4.8	18	18.5	6.4

• Case: metal, terminal: Faston® #250 (t: 0.8mm)

ELECTRICAL CHARACTERISTICS

Part No.	ZHG2203-11S	ZHG2206-11S	ZHG2210-11S
Rated voltage Eac(V)	250	250	250
Rated current(A)	3	6	10
Test voltage Eac(V)[Between terminal and case]	1500	1500	1500
Insulation resistance(MΩ)	100min.	100min.	100min.
[DC, 500V, 1min/between terminal and case]			
Leakage current(mA)[250V • 60Hz]	0.75max.	0.75max.	0.75max.
DC resistance(mΩ)	250max.	100max.	50max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85
With derating over(°C)	55	55	55
Temperature rise(°C)	30max.	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 40dB Common-mode at 30dB	0.4 to 10 0.2 to 20	0.5 to 10 0.3 to 20
Pulse attenuation characteristics	Differential mode at 20dB	1	1
Input pulse voltage(kV)*	Common-mode at 20dB	2	2
Weight(g)	150	270	300

*Input pulse width: 1μs

• Faston® is a registered trademark of AMP Incorporated.

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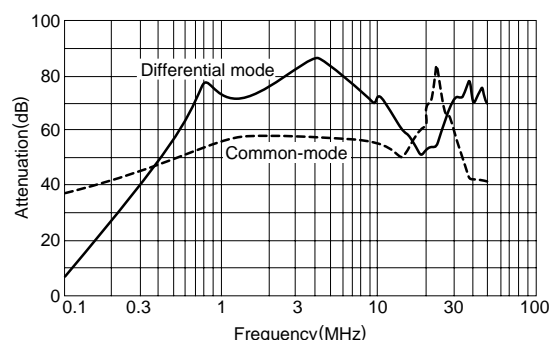
ZHG-11S Series

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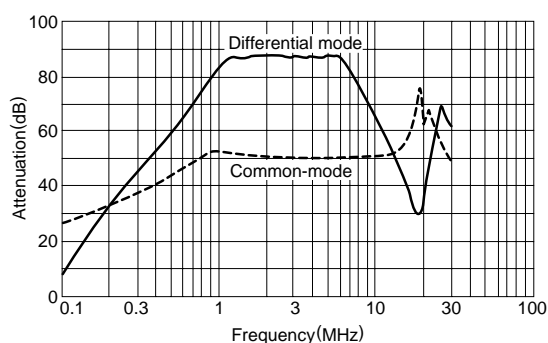
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

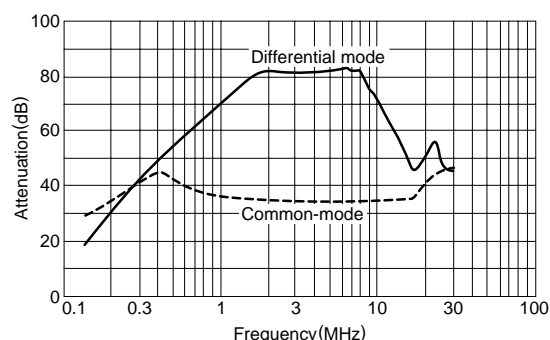
ZHG2203-11S



ZHG2206-11S

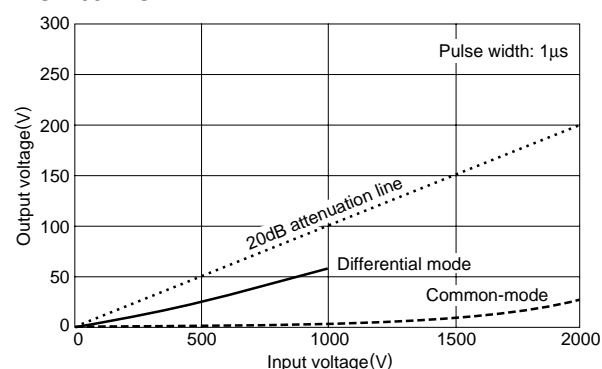


ZHG2210-11S

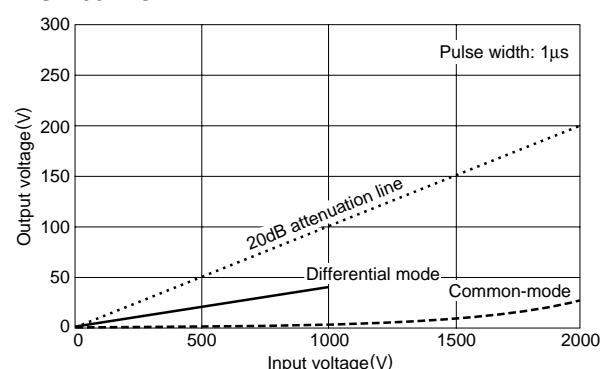


PULSE ATTENUATION CHARACTERISTICS

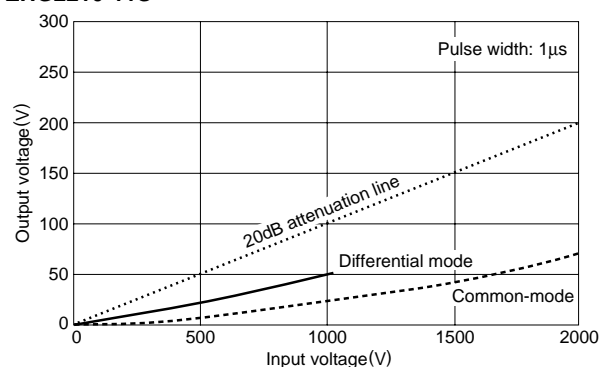
ZHG2203-11S



ZHG2206-11S



ZHG2210-11S



CIRCUIT DIAGRAM

