

EMC Filters for AC Power Line Conformity to RoHS Directive For Single-phase, Mid-size Box Cased 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.
- It is a product conforming to RoHS directive.

APPLICATIONS

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

SAFETY STANDARDS

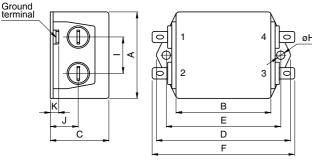
	Standard and standard No.					
5	U.S.A.	Canada	Europe			
Part No.	91 UL	⑤ CSA	NEMKO			
	UL1283 CSA C22.2 No.		EN60939			
ZHG2203-11S	E62388	LR76849C	P08209036			
ZHG2206-11S	E62388	LR76849C	P08209036			
ZHG2210-11S	E62388	LR76849C	P08209036			



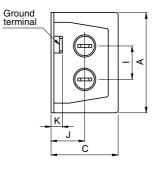


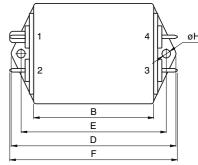
SHAPES AND DIMENSIONS

ZHG2203-11S Ground



ZHG2206-11S, ZHG2210-11S





Dimensions in mm

Part No.	Α	В	С	D	Е	F	øΗ	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)

• Faston® is a registered trademark of Tyco Electronics AMP Corp. Incorporated.

• 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.

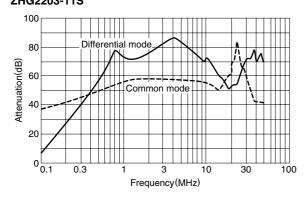


ELECTRICAL CHARACTERISTICS

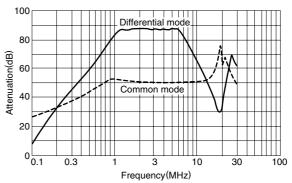
Part No.		ZHG2203-11S	ZHG2206-11S	ZHG2210-11S
Rated voltage Eac(V)		250	250	250
Rated current(A)		3	6	10
Test voltage Eac(V)[Between terminal and case]		1500	1500	1500
Insulation resistance(MΩ)		100min.	100min.	100min.
[DC. 500V, 1min/between terminal a	nd case]			Toomin.
Leakage current(mA)[250V • 60Hz]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

^{*} Input pulse width: 1µs

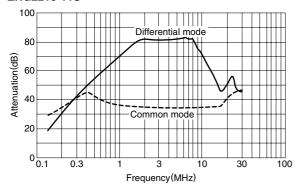
TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS ZHG2203-11S



ZHG2206-11S



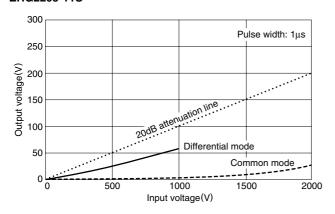
ZHG2210-11S



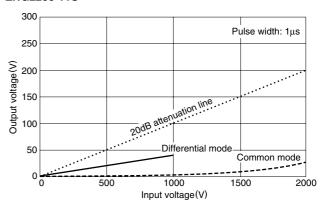
[•] All specifications are subject to change without notice.



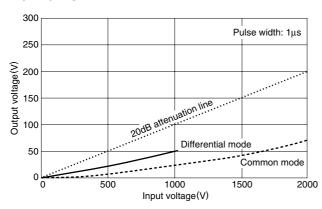
PULSE ATTENUATION CHARACTERISTICS ZHG2203-11S



ZHG2206-11S



ZHG2210-11S



CIRCUIT DIAGRAM

