

EMC Filters for AC Power Line

For Single-phase, Small-size Box Cased ZCB-11S Series

Conformity to RoHS Directive

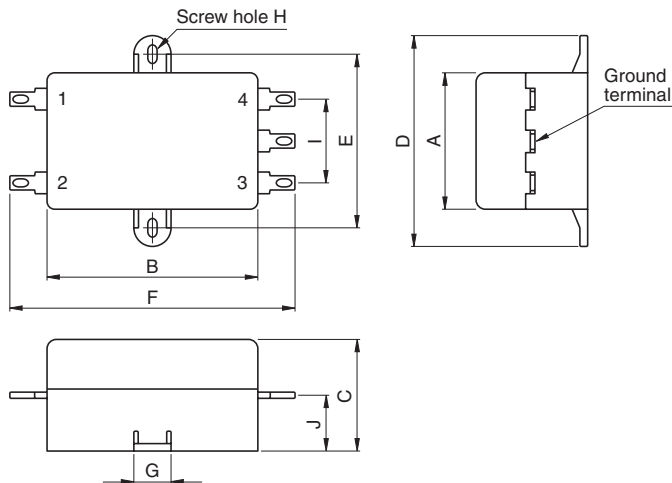
FEATURES

- The ZCB-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 1kV, 1 μ s pulse (ZCB2203-11S) or a 0.5kV, 1 μ s pulse (ZCB2206-11S).
- 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® #110 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.

SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	F	G	H	I	J
ZCB2203-11S, 2206-11S	32	50	25	50	40	68	11	3.6	20	14

- Case: plastic, terminal: Faston® #110 (t: 0.5mm)

SAFETY STANDARDS

Part No.	Standard and standard No.		
	U.S.A.	Canada	Europe
	UL	CSA	NEMKO
	UL1283	CSA C22.2 No.8	EN60939
ZCB2203-11S	E62388	LR76849C	P08209033/A1
ZCB2206-11S	E62388	LR76849C	P08209033/A1

- 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.

- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

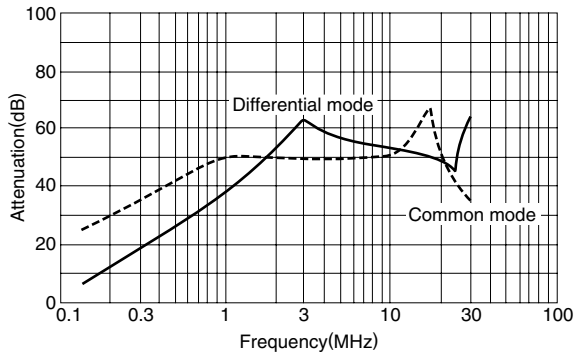
Part No.	ZCB2203-11S	ZCB2206-11S
Rated voltage Eac(V)	250	250
Rated current(A)	3	6
Test voltage Eac(V)[Between terminal and ground terminal]	1500	1500
Insulation resistance(MΩ) [DC: 500V, 1min/between terminal and ground terminal]	100min.	100min.
Leakage current(mA)[250V • 60Hz]	0.75max.	0.75max.
DC resistance(mΩ)	300max.	100max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85
With derating over(°C)	55	55
Temperature rise(°C)	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 30dB 2 to 10	2 to 10
	Common-mode at 30dB 1 to 10	1 to 10
Pulse attenuation characteristics	Differential mode at 20dB 1	0.5
Input pulse voltage(kV)*	Common mode at 20dB 1	0.5
Weight(g)	55	60

* Input pulse width: 1μs

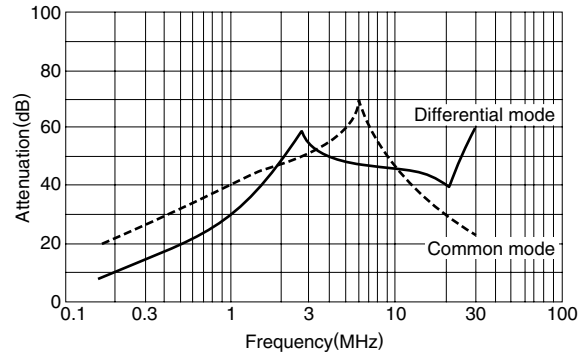
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

ZCB2203-11S

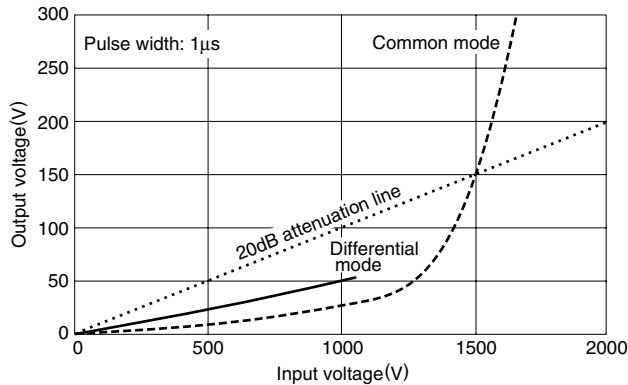


ZCB2206-11S

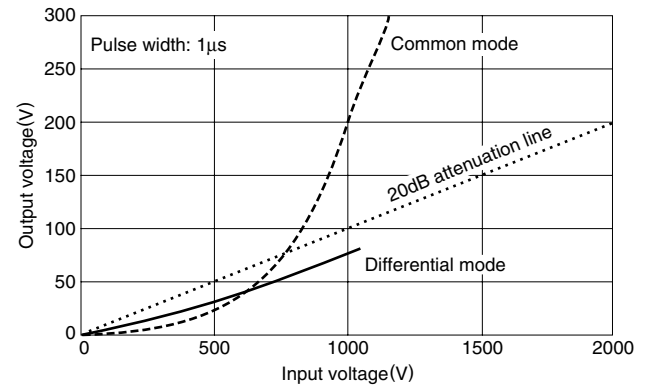


PULSE ATTENUATION CHARACTERISTICS

ZCB2203-11S



ZCB2206-11S



CIRCUIT DIAGRAM

