

# EMC Components

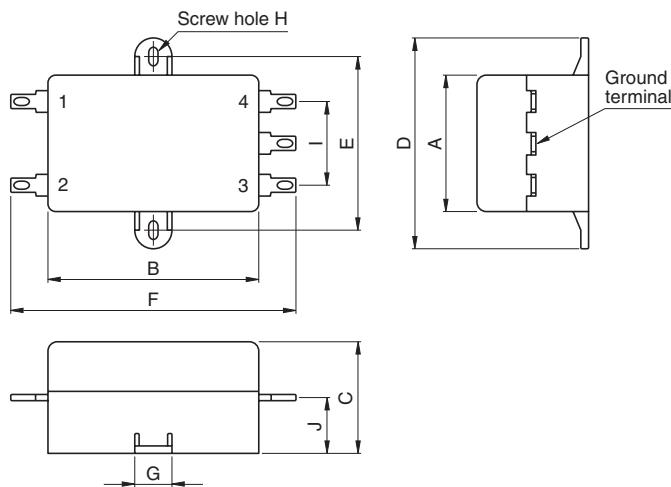
## EMC Filters for AC Power Supply Cased (Compact Size)

### ZCB-11S Series

#### 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, 1μs pulse (ZCB2203-11S) or a 0.5kV, 1μs 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.

#### SHAPES AND DIMENSIONS



#### SAFETY STANDARDS

Part No.	UL	CSA	TÜV
ZCB2203-11S	E62388	LR76849C	R10026
ZCB2206-11S	E62388	LR76849C	R10026

#### APPLICATIONS

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



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	8	M3	20	14

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

#### 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)	100min.	100min.
[DC. 500V, 1min/Between terminal and ground terminal]		
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 Common-mode at 30dB	2 to 10 1 to 10
Pulse attenuation characteristics	Differential mode at 20dB	1
Input pulse voltage(kV)*	Common mode at 20dB	0.5
Weight(g)	55	60

\* Input pulse width: 1μs

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

• All specifications are subject to change without notice.

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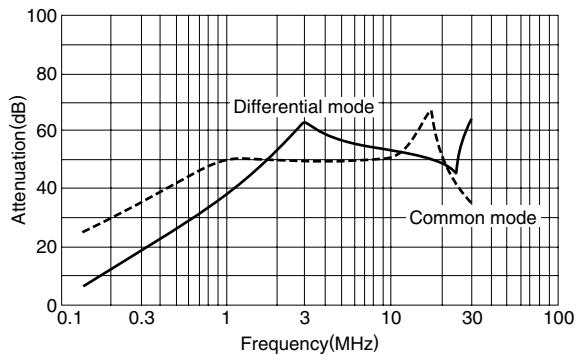
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### ZCB-11S Series

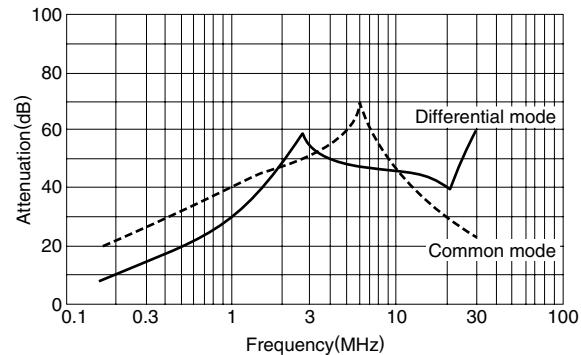
#### TYPICAL ELECTRICAL CHARACTERISTICS

##### ATTENUATION vs. FREQUENCY CHARACTERISTICS

ZCB2203-11S

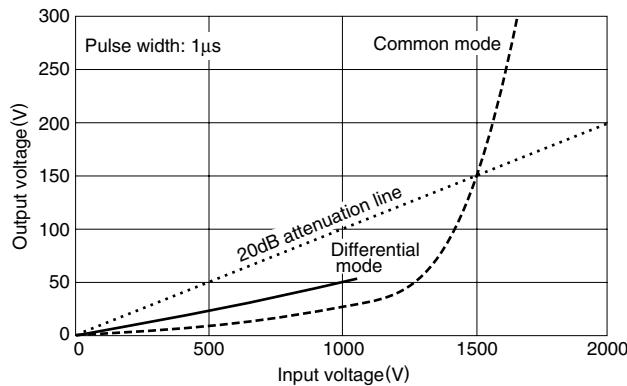


ZCB2206-11S

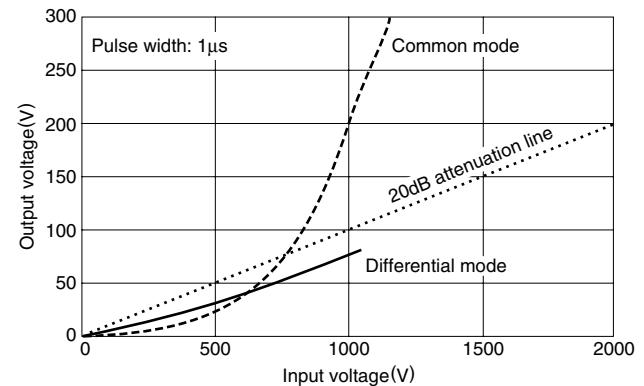


#### PULSE ATTENUATION CHARACTERISTICS

ZCB2203-11S



ZCB2206-11S



#### CIRCUIT DIAGRAM

