## **EMC Components**

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

## ZCB-11, ZCB-M Series

#### **FEATURES**

- The ZCB-11 and ZCB-M series EMC filters exhibit outstanding attenuation characteristics with respect to both differential mode and common mode noise components in the MF and HF bands.
- Leakage current is maintained at less than 0.5mA for the ZCB-M series and less than 0.75mA for the ZCB-11 series.
- Efficient manufacturing makes these filters highly cost-effective.
- Connection terminals employing Faston® #110 facilitate implementation and maintenance.

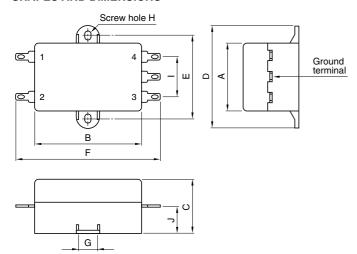
#### **SAFETY STANDARDS**

Part No.	UL	CSA	TÜV
ZCB2203-11	E62388	LR76849C	R10026
ZCB2206-11	E62388	LR76849C	R10026
ZCB2201-M	E62388	LR76849C	R10026
ZCB2203-M	E62388	LR76849C	R10026

### **APPLICATIONS**

Digital applied devices (ECR, calculators, electronic scales, etc.), control devices, measurement devices, and other electronic equipment

### **SHAPES AND DIMENSIONS**





									Di	mensions in n	nm
Part No.	Α	В	С	D	Е	F	G	Н	I	J	_
ZCB2203-11 2206-11	32	50	25	50	40	68	8	МЗ	20	14	
ZCB2201-M 2203-M	26	35	17.5	44	35	53	8	М3	17.5	9.3	

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

## **ELECTRICAL CHARACTERISTICS**

Part No.		ZCB2203-11	ZCB2206-11	ZCB2201-M	ZCB2203-M
Rated voltage Eac(V)		250	250	250	250
Rated current(A)		3	6	1	3
Test voltage Eac(V)[Between terminal and ground terminal]		1500	1500	1500	1500
Insulation resistance(M $\Omega$ ) [DC. 500V, 1min/between terminal and ground terminal]		100min.	100min.	100min.	100min.
Leakage current(mA)[250V • 60Hz]		0.75max.	0.75max.	0.5max.	0.5max.
DC resistance(mΩ)		500max.	100max.	100max.	80max.
Operating temperature range(°C)[Including self-temperature rise]		-25 to +85	-25 to +85	-25 to +85	-25 to +85
With derating over(°C)		55	55	55	55
Temperature rise(°C)		30max.	30max.	30max.	30max.
Attenuation frequency range	Differential mode at 30dB	2 to 10	2 to 10	2.5 to 20	2.5 to 20
(MHz)[+5 to +35°C]	Common mode at 30dB	1 to 10	1 to 10	1 to 30	1 to 30
Weight(g)		45	45	22	22

<sup>•</sup> Faston® is a registered trademark of Tyco Electronics AMP Corp. Incorporated.

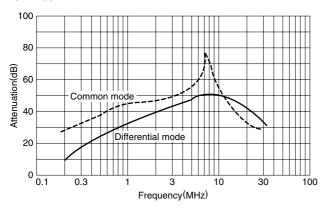


## **EMC Components**

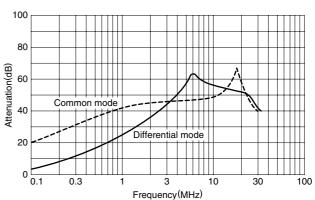
## ZCB-11, ZCB-M Series

EMC Filters for AC Power Supply Cased (Compact Size)

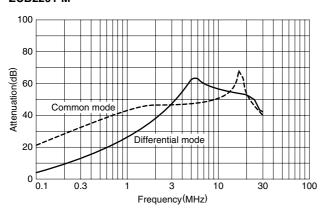
# TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS ZCB2203-11



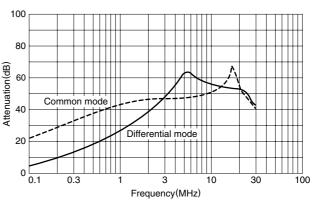
## ZCB2206-11



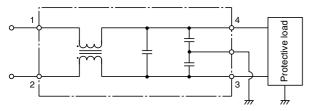
## ZCB2201-M



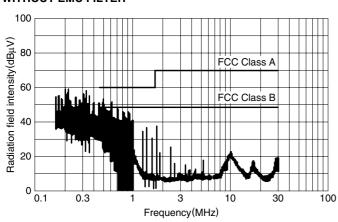
ZCB2203-M



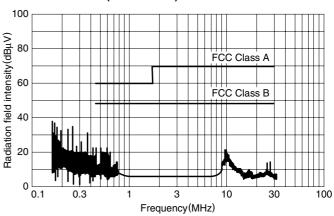
## **CIRCUIT DIAGRAM**



# TYPICAL APPLICATION EFFECTS (Personal computer with CRT display) WITHOUT EMC FILTER



## WITH EMC FILTER (ZCB2203-11)



<sup>•</sup> All specifications are subject to change without notice.