

# EMC Components

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

## ZMB-13 Series

### FEATURES

- 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 1mA.
- Utilizing a plastic case and a ground terminal, these filters are high cost-efficient.
- Small and lightweight.
- Designed to ensure superior safety and reliability, easy implementation and maintenance.

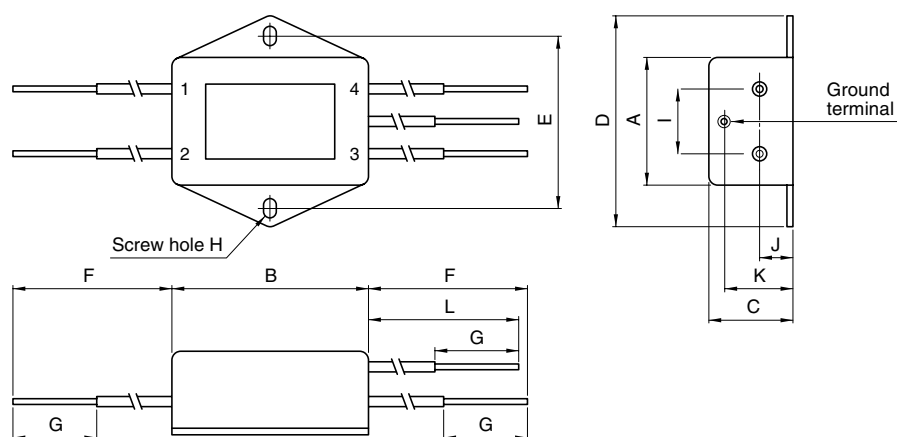
### SAFETY STANDARDS

Part No.	VDE
ZMB2201-13	19047-4730-1002
ZMB2203-13	19047-4730-1002

### APPLICATIONS

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

### SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	F	G	H	I	J	K	L
ZMB2201-13, 2203-13	30	45	20	50	40	300	20	M3	15	7.5	13	200

- Case : plastic, terminal : lead wire (UL1015 AWG#22)

### ELECTRICAL CHARACTERISTICS

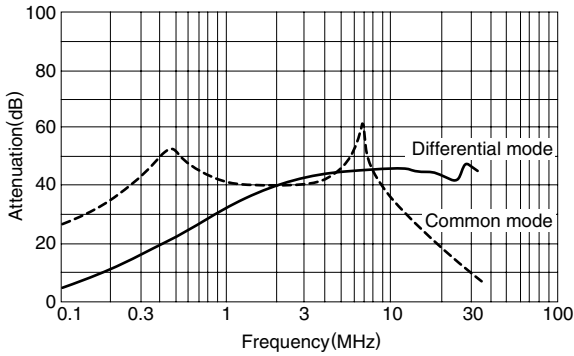
Part No.	ZMB2201-13	ZMB2203-13
Rated voltage Eac(V)	250	250
Rated current(A)	1	3
Test voltage Eac(V)[Between lead wire and ground terminal]	2000	2000
Insulation resistance(MΩ) [DC: 500V, 1min/between lead wire and ground terminal]	100min.	100min.
Leakage current(mA)[250V • 60Hz]	0.4max.	0.4max.
DC resistance(mΩ)	200max.	200max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85
With derating over(°C)	40	40
Temperature rise(°C)	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 30dB Common mode at 20dB	Differential mode at 30dB Common mode at 20dB
Weight(g)	45	45

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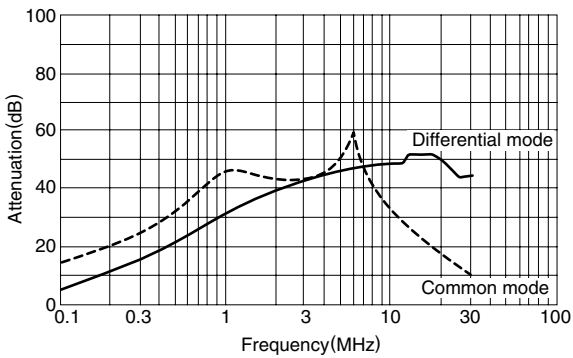
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TYPICAL ELECTRICAL CHARACTERISTICS  
ATTENUATION vs. FREQUENCY CHARACTERISTICS  
ZMB2201-13



ZMB2203-13



CIRCUIT DIAGRAM

