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TDK

EMC Filters for AC Power Line
For Single-phase, Small-size Box Cased ZMB-13 Series

Conformity to RoHS Directive

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.
- It is a product conforming to RoHS directive.

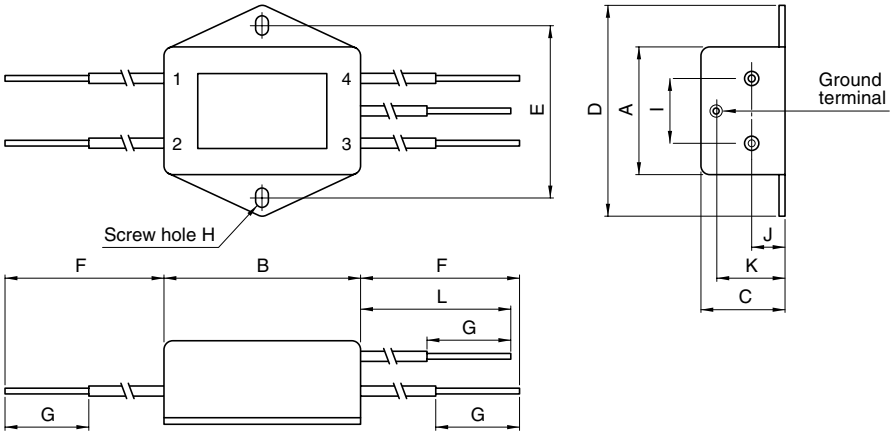
SAFETY STANDARDS

Part No.	Standard and standard No.
	Europe
	Ⓝ NEMKO
	EN60939
ZMB2201-13	P08209034
ZMB2203-13	P08209034

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	3.6	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	1.5 to 30	1.5 to 30
	Common mode at 20dB	0.2 to 10	0.5 to 10
Weight(g)		45	45

• 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.

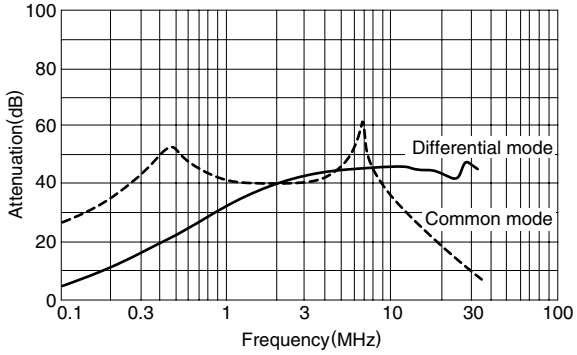
• All specifications are subject to change without notice.

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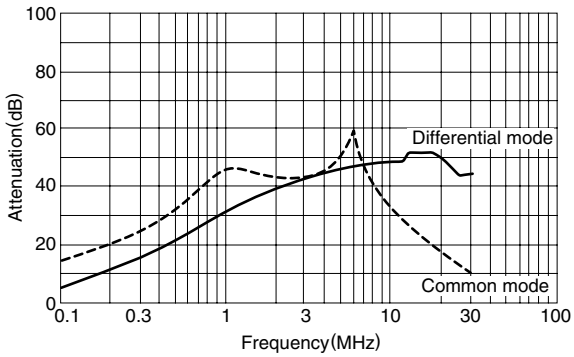
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

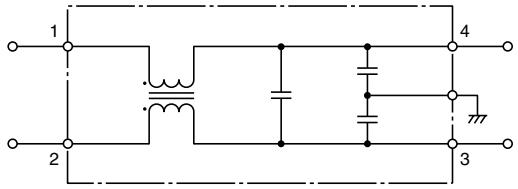
ZMB2201-13



ZMB2203-13



CIRCUIT DIAGRAM



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