

EMC Components

EMC Filters for AC Power Supply Cased (Compact Size)

ZMG-11, ZMG-M Series

FEATURES

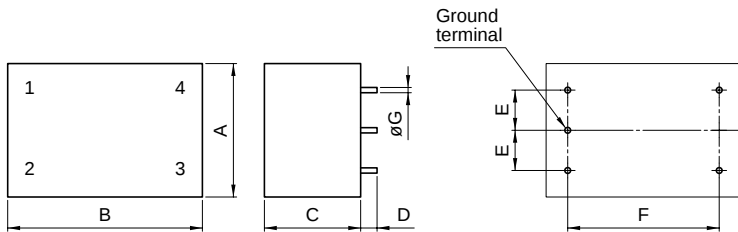
- The ZMG series EMC filters exhibit outstanding attenuation characteristics with respect to both differential mode and common-mode noise components in the MF and HF bands.
- Small, high performance, this series demonstrates superior attenuation effects for low frequency band noise components under 1MHz. It is therefore suitable for conform to FCC and VDE standards relating to switching power supply use devices.
- Current leakage is maintained at less than 0.5mA.
- Efficient manufacturing makes these filters highly cost-effective.
- ZMG-M series is compact on-board type.

APPLICATIONS

Computer terminals, office automation equipment, digital applied devices (ECRs, electronic calculators, electronic scales, etc.), control devices, measurement devices, and any other devices that require a miniaturized filter.



SHAPES AND DIMENSIONS



Dimensions in mm

Series	A	B	C	D	E	F	øG
ZMG-11	31	44.5	22	4	10	35	1
ZMG-M	25	25	26	4	10	20	1

- Case: plastic, terminal: pin

ELECTRICAL CHARACTERISTICS

Part No.	ZMG22R5-11	ZMG2202-11	ZMG2203-11	ZMG2206-11
Rated voltage Eac(V)	250	250	250	250
Rated current(A)	0.5	2	3	6
Test voltage Eac(V)[Between terminal and ground terminal]	1500	1500	1500	1500
Insulation resistance(MΩ) [DC, 500V, 1min/between terminal and ground terminal]	100min.	100min.	100min.	100min.
Leakage current(mA)[250V • 60Hz]	0.5max.	0.5max.	0.5max.	0.5max.
DC resistance(mΩ)	450max.	350max.	230max.	60max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Temperature rise(°C)	30max.	30max.	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 30dB Common-mode at 30dB	0.45 to 10 0.2 to 10	0.7 to 10 0.3 to 10	0.8 to 10 0.3 to 10
Weight(g)	36	36	36	40

Part No.	ZMG2201-M	ZMG2203-M	ZMG2206-M
Rated voltage Eac(V)	250	250	250
Rated current(A)	1	3	6
Test voltage Eac(V)[Between terminal and ground terminal]	1500	1500	1500
Insulation resistance(MΩ) [DC, 500V, 1min/between terminal and ground terminal]	100min.	100min.	100min.
Leakage current(mA)[250V • 60Hz]	0.5max.	0.5max.	0.5max.
DC resistance(mΩ)	140max.	120max.	60max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85
Temperature rise(°C)	30max.	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 25dB Common-mode at 25dB	0.8 to 10 0.6 to 10	1.5 to 20 3 to 10
Weight(g)	24	24	24

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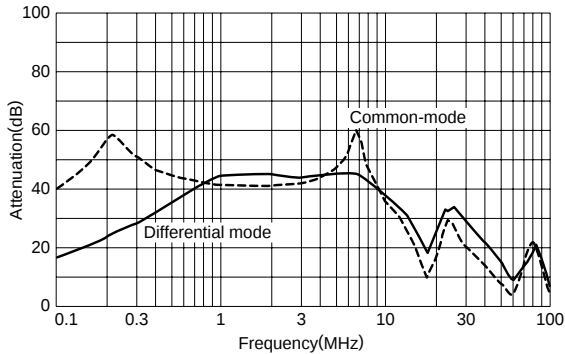
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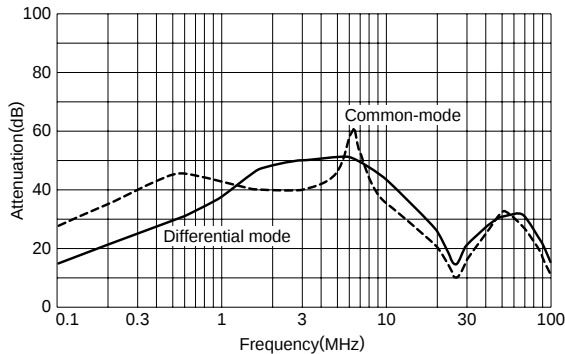
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

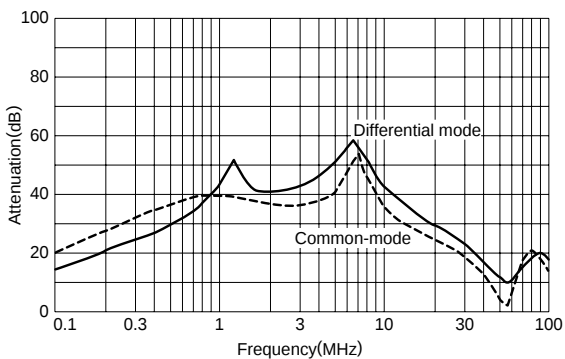
ZMG22R5-11



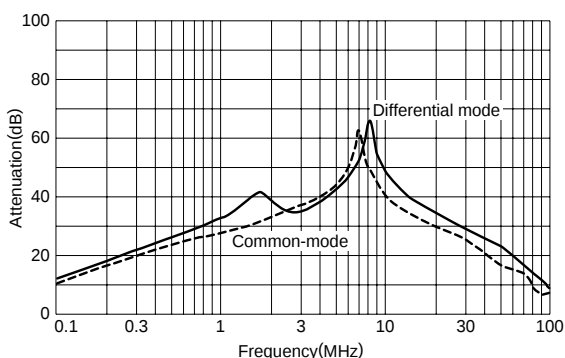
ZMG2203-11



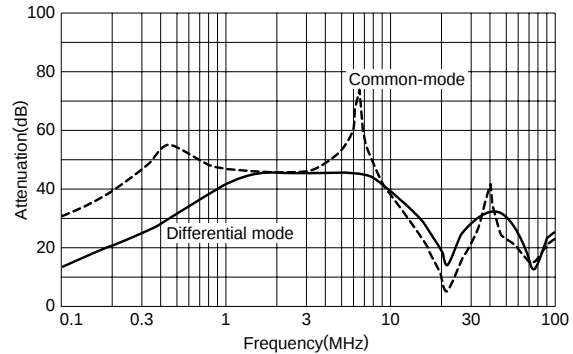
ZMG2201-M



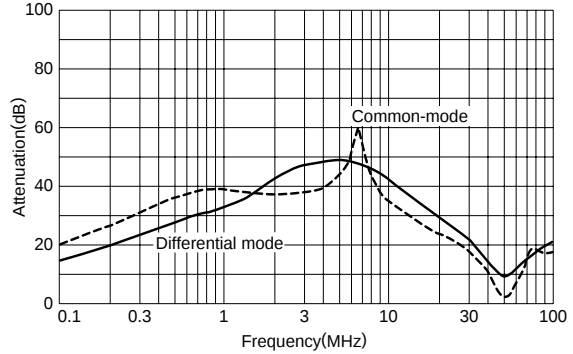
ZMG2206-M



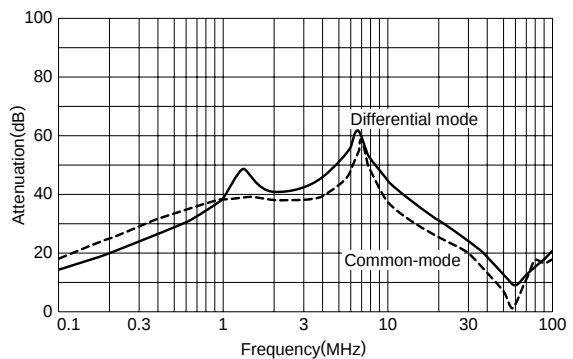
ZMG2202-11



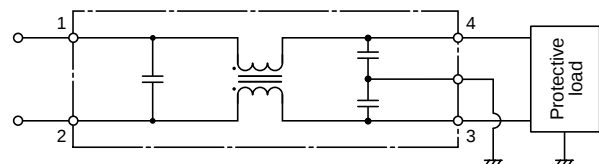
ZMG2206-11



ZMG2203-M



CIRCUIT DIAGRAM



RECOMMENDED SOLDERING CONDITIONS

- Dip time : Within 5 seconds at $240 \pm 10^\circ\text{C}$
- Soldering iron : Within 5 seconds at 400°C max.

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