TDK

EMC Filters for AC Power Line
For Single-phase, Mid-size Box Cased ZAG-M Series

Conformity to RoHS Directive

FEATURES

- The ZAG-M series employ a highly efficient thermal design, which ensures high current handling capacity in a compact package with superior EMC suppression characteristics.
- They are highly effective at preventing both the radiation and penetration of EMC noise. The parts are, therefore, highly immune to externally generated noise and do not, themselves, serve as sources of radiated noise.
- This product provides superior attenuation for both differential mode and common mode noise components.
- Withstand voltage is AC.1768V between the lines and AC.1500V between line and ground.
- 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.
- It is a product conforming to RoHS directive.

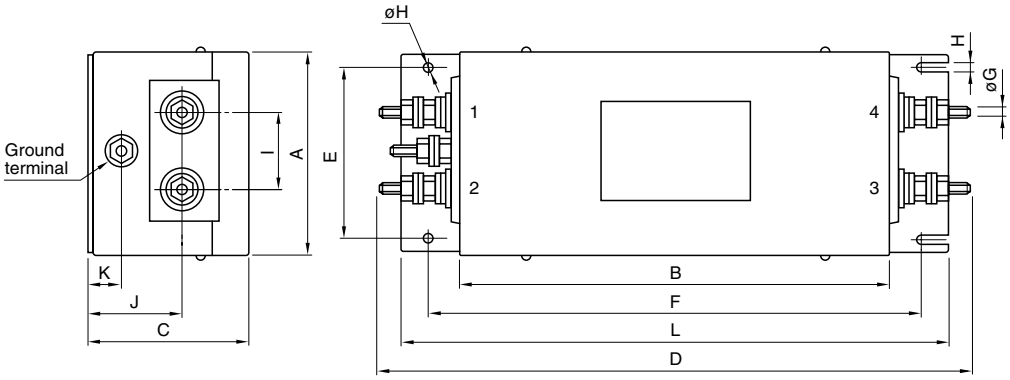
SAFETY STANDARD

Part No.	Standard and standard No.
	Canada
	CSA
	CSA C22.2 No.8
ZAG2250-M	LR76849C

APPLICATIONS

Computers, hard disk drives, electronic exchange devices, NC control devices, large copiers, etc.

SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	F	øG	H	I	J	K	L
ZAG2250-M	87	175	65	237	68	195	M6	5.5	32	39.8	14.2	215

• Case: metal, terminal: stud

ELECTRICAL CHARACTERISTICS

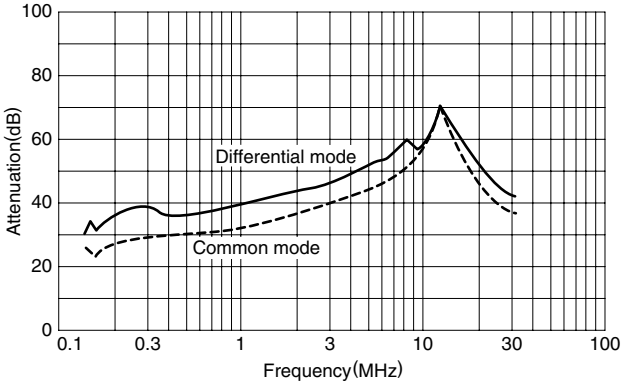
Part No.		ZAG2250-M
Rated voltage Eac(V)		250
Rated current(A)		50
Test voltage Eac(V)[Between terminal and case]		1500
Insulation resistance(MΩ)[DC. 500V, 1min/between terminal and case]		100min.
Leakage current(mA)[250V • 60Hz]		1.2max.
DC resistance(mΩ)		3.6max.
Operating temperature range(°C)[Including self-temperature rise]		–10 to +85
With derating over(°C)		55
Temperature rise(°C)		35max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 30dB	0.5 to 30
	Common mode at 20dB	0.5 to 30
Weight(kg)		1.5

• 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.

TYPICAL ELECTRICAL CHARACTERISTICS

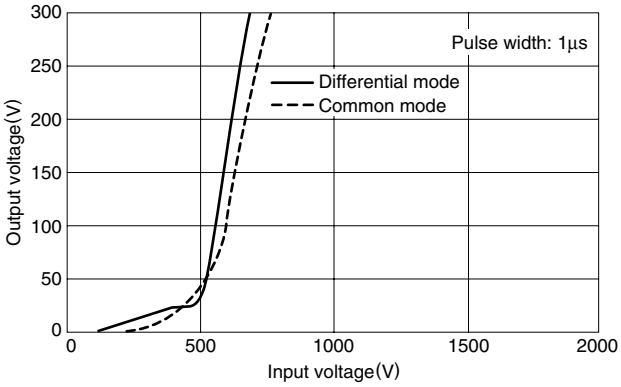
ATTENUATION vs. FREQUENCY CHARACTERISTICS

ZAG2250-M



PULSE ATTENUATION CHARACTERISTICS

ZAG2250-M



CIRCUIT DIAGRAM