

EMC Filters for AC Power Line

Conformity to RoHS Directive

For Single-phase, Small-size Box Cased ZGB-01U Series

FEATURES

- These small and lightweight metal-cased EMC filters provide excellent EMC attenuation characteristics for differential mode noise components in the MF band.
- Leakage current is maintained at less than 1mA.
- Designed to ensure superior safety and reliability, easy implementation and maintenance.
- It is a product conforming to RoHS directive.

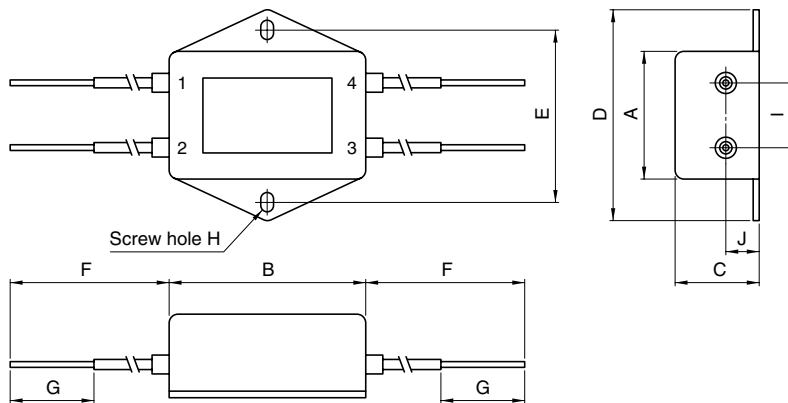
SAFETY STANDARDS

Part No.	Standard and standard No. U.S.A.
	UL
	UL1283
ZGB22R5-01U	E62388
ZGB2201-01U	E62388
ZGB2202-01U	E62388
ZGB2203-01U	E62388

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
ZGB22R5-01U, 2201-01U, 2202-01U, 2203-01U	30	45	20	50	40	300	20	3.6	15	7.5

• Case: metal, terminal: lead wire (UL1015AWG#22)

ELECTRICAL CHARACTERISTICS

Part No.	ZGB22R5-01U	ZGB2201-01U	ZGB2202-01U	ZGB2203-01U
Rated voltage Eac(V)	250	250	250	250
Rated current(A)	0.5	1	2	3
Test voltage Eac(V)[Between terminal and case]	1500	1500	1500	1500
Insulation resistance(MΩ) [DC: 500V, 1min/between terminal and case]	100min.	100min.	100min.	100min.
Leakage current(mA)[250V • 60Hz]	1max.	1max.	1max.	1max.
DC resistance(mΩ)	3000max.	1200max.	540max.	300max.
Operating temperature range(°C)[Including self-temperature rise]	-10 to +85	-10 to +85	-10 to +85	-10 to +85
With derating over(°C)	55	55	55	55
Temperature rise(°C)	30max.	30max.	30max.	30max.
Attenuation frequency range (MHz)[+5 to +35°C]	Differential mode at 40dB 0.4 to 30	0.4 to 10	0.6 to 10	2 to 20
Weight(g)	75	75	75	75

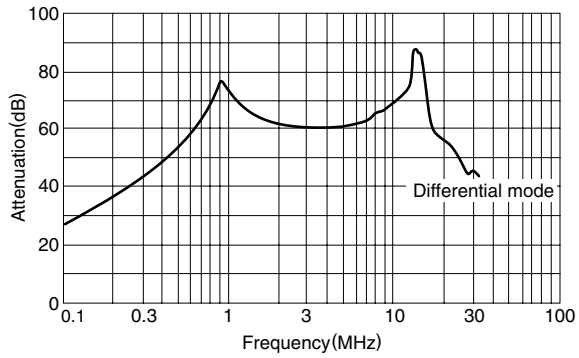
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

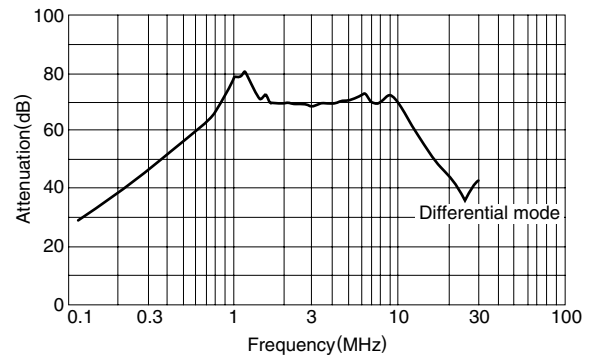
TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

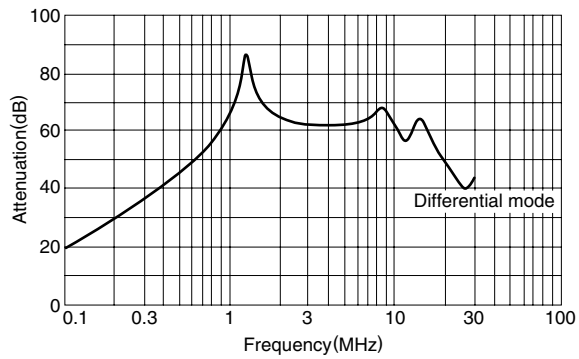
ZGB22R5-01U



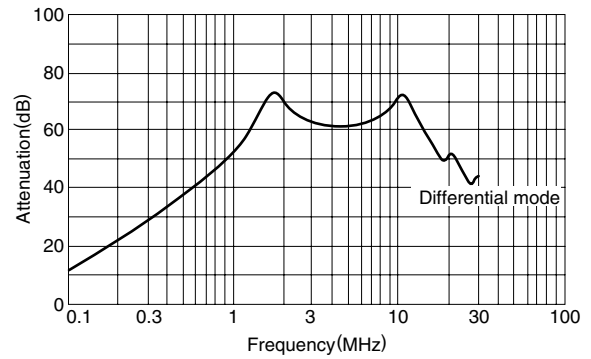
ZGB2201-01U



ZGB2202-01U



ZGB2203-01U



CIRCUIT DIAGRAM

