

EMC Components

EMC Filters for AC Power Supply Cased (Mid-Size)

ZAG-11S Series

FEATURES

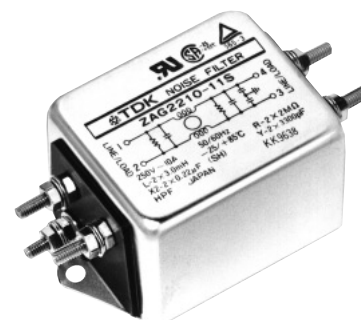
- The ZAG-11S series are EMC filters designed to prevent malfunctions in microcomputers. They employ advanced amorphous magnetic materials in the common mode choke coil to achieve superior performance characteristics.
- They provide substantial attenuation of high-voltage pulses in power supply lines, exhibiting more than 20dB attenuation for a 2kV, 1μs pulse.
- Leakage current is maintained at less than 0.75mA.
- 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.
- Efficient manufacturing makes these filters highly cost-effective.

APPLICATIONS

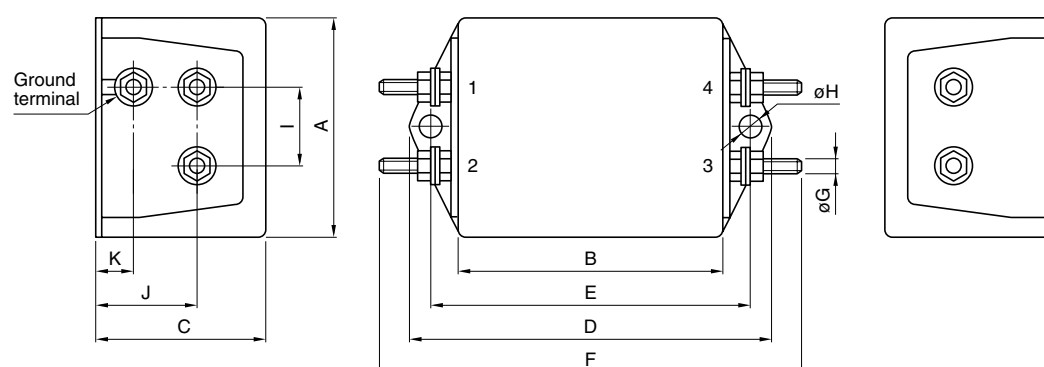
Computers and other terminal devices, office automation equipment, general control devices, and other industrial devices.

SAFETY STANDARDS

Part No.	UL	CSA	TÜV
ZAG2206-11S	E62388	LR76849C	R30107
ZAG2210-11S	E62388	LR76849C	R30107
ZAG2220-11S	E62388	LR76849C	R30107
ZAG2230-11S	E62388	LR76849C	R30107



SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	F	øG	øH	I	J	K
ZAG2206-11S	50.8	62	40	85	75	95	M4	4.8	18	25	7.5
ZAG2210-11S	50.8	62	40	85	75	95	M4	4.8	18	25	7.5
ZAG2220-11S	50.8	62	40	85	75	95	M4	4.8	18	25	7.5
ZAG2230-11S	56	90	50	111	103.2	138	M5	4.8	21	31.7	8.2

• Case: metal, terminal: stud

ELECTRICAL CHARACTERISTICS

Part No.	ZAG2206-11S	ZAG2210-11S	ZAG2220-11S	ZAG2230-11S
Rated voltage Eac(V)	250	250	250	250
Rated current(A)	6	10	20	30
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]	0.75max.	0.75max.	0.75max.	0.75max.
DC resistance(mΩ)	100max.	50max.	20max.	9max.
Operating temperature range(°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85	-25 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 Common-mode at 30dB	0.5 to 10 0.5 to 20	1 to 10 1 to 10	1 to 10 2 to 30
Pulse attenuation characteristics	Differential mode at 20dB	1	1	1
Input pulse voltage(kV)*	Common mode at 20dB	2	1.2	0.8
Weight(g)	270	300	320	480

* Input pulse width : 1μs

• All specifications are subject to change without notice.

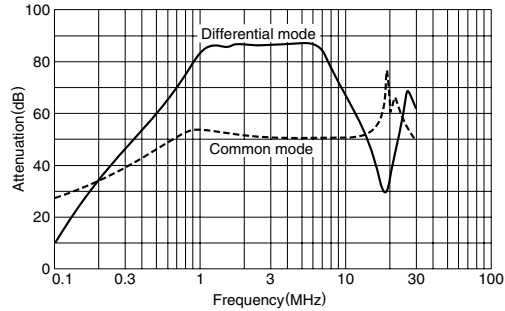
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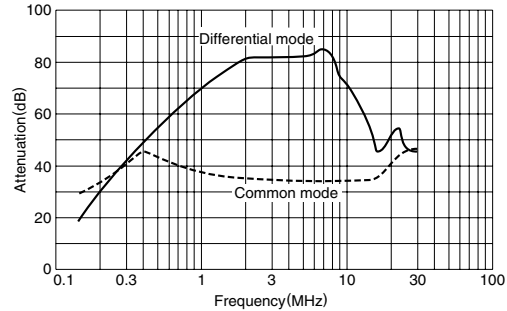
ZAG-11S Series

TYPICAL ELECTRICAL CHARACTERISTICS ATTENUATION vs. FREQUENCY CHARACTERISTICS

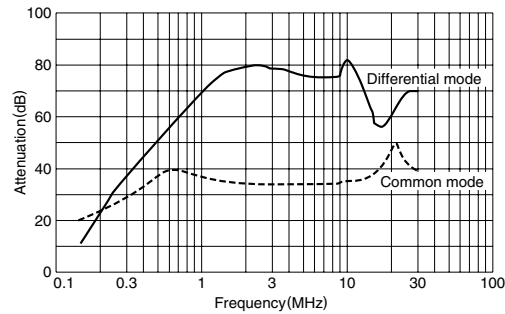
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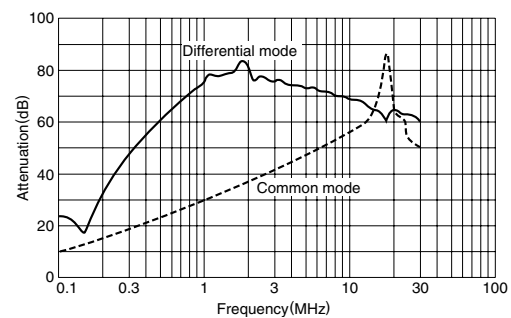
ZAG2210-11S



ZAG2220-11S

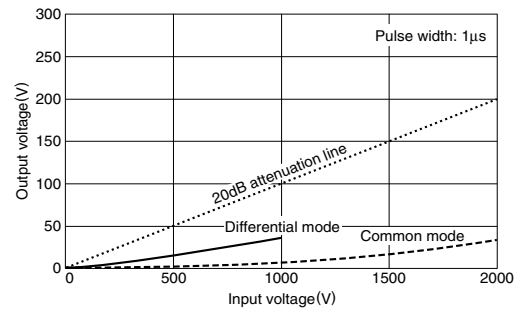


ZAG2230-11S

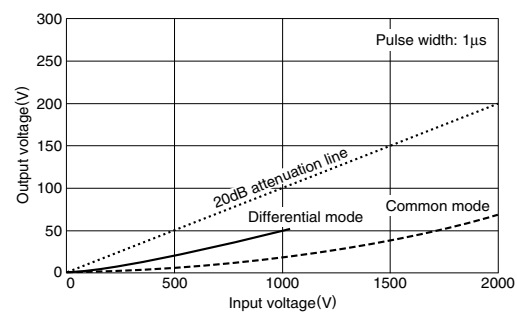


PULSE ATTENUATION CHARACTERISTICS

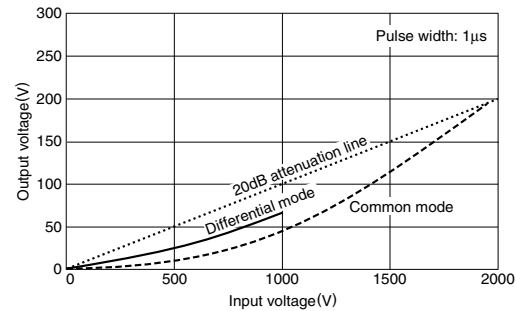
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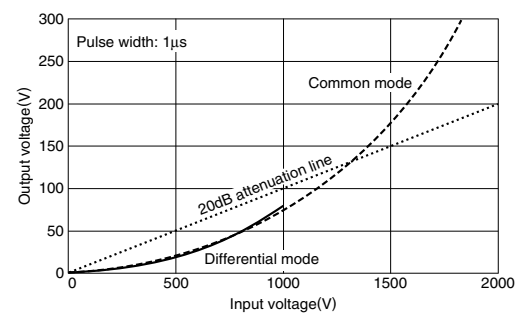
ZAG2210-11S



ZAG2220-11S



ZAG2230-11S



CIRCUIT DIAGRAM

