

EMC Filters for AC Power Line

Conformity to RoHS Directive

For Triple-phase, Large-size Box Cased(Square Wire Winding Type) ZRGT-MF Series

FEATURES

- The ZRGT-MF 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.
- For the CISPR frequency band, this product provides superior attenuation for both differential mode and common mode noise components.
- The withstand voltage between line and ground is AC.2500V.
- Single-direction block terminal design simplifies wiring requirements, thereby improving workflow.
- It is a product conforming to RoHS directive.

APPLICATIONS

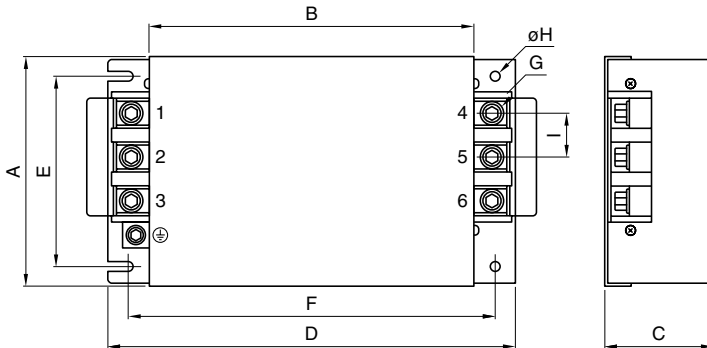
Computers, general purpose inverters, UPE(uninterruptible power equipment), computer control devices, NC control devices, etc. Highly recommended for large equipment destined for CE countries, where compliance with EMC radiation standards is required as part of CE marking certification.

SAFETY STANDARDS

Part No.	Standard and standard No.		
	U.S.A.	Canada	Europe
	UL(NRTL)	CSA	NEMKO
	UL1283	CSA C22.2 No.8	EN60939
Rated voltage	[250V]	[250V]	[500V]
ZRGT5050-MF	1062358	LR76849C	P07208134
ZRGT5080-MF	1062358	LR76849C	P07208134
ZRGT5100-MF	1062358	LR76849C	P07208134
ZRGT5150-MF	1062358	LR76849C	P07208134
ZRGT5200-MF	1062358	LR76849C	P07208134
ZRGT5250-MF	1062358	LR76849C	P07208134
ZRGT5300-MF	1062358	LR76849C	P07208134



SHAPES AND DIMENSIONS



Dimensions in mm

Part No.	A	B	C	D	E	F	G	øH	I
ZRGT5050-MF	132	190	67	244	106	224	M6	6.5	25.5
ZRGT5080-MF	152	216	72	270	126	250	M8	6.5	29
ZRGT5100-MF	152	231	79	285	126	265	M8	6.5	29
ZRGT5150-MF	176	249	87	301	140	281	M8	6.5	29
ZRGT5200-MF	197	289	107	395	152	380	M10	6.5	49
ZRGT5250-MF	197	289	107	395	152	380	M10	6.5	49
ZRGT5300-MF	197	289	107	395	152	380	M10	6.5	49

- Case:metal, terminal cover:polycarbonate, terminal block:bolt with hexagonal hole, case and cover surface:long hole 4×20mm punching

- 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.

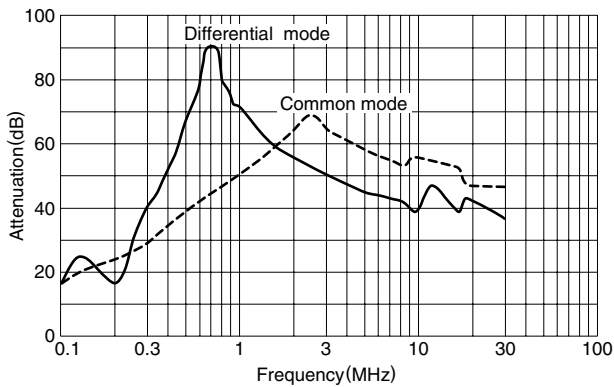
- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

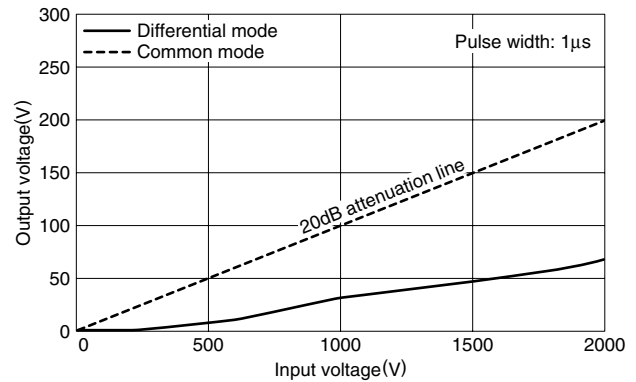
Part No.	ZRGT5050-MF	ZRGT5080-MF	ZRGT5100-MF	ZRGT5150-MF	ZRGT5200-MF	ZRGT5250-MF	ZRGT5300-MF
Rated voltage Eac(V)	500	500	500	500	500	500	500
Rated current(A)	50	80	100	150	200	250	300
Test voltage Eac(V)[Between terminal and case]	2500	2500	2500	2500	2500	2500	2500
Insulation resistance(M Ω) [DC: 500V, 1min/between terminal and case]	100min.	100min.	100min.	100min.	100min.	100min.	100min.
Leakage current(mA)[440V • 50Hz]	3.5max.	3.5max.	3.5max.	3.5max.	3.5max.	3.5max.	3.5max.
DC resistance(m Ω) or Voltage down(V)	1.5V max.	1.5V max.	1V max.	1V max.	1V max.	1V max.	1V max.
Operating temperature range(°C) [Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
With derating over(°C)	45	45	45	45	45	45	45
Temperature rise(°C)	40max.	40max.	40max.	40max.	40max.	40max.	40max.
Attenuation	Differential mode at 30dB						
frequency range	0.4 to 3	0.3 to 8	0.4 to 7	0.4 to 3	0.4 to 4	0.3 to 1	0.5 to 1
(MHz)[+5 to +35°C]	Common mode at 30dB						
Weight(kg)	2.1	4.4	5.1	5.8	11	10	9

TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS ZRGT5080-MF



PULSE ATTENUATION CHARACTERISTICS ZRGT5080-MF



CIRCUIT DIAGRAM

ZRGT5XXX-MF

