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RTCN SERIES

Filter Exclusively for Secondary Side Three-Phase Inverter with Many Current Variations



■ FEATURES

- 6 to 300A wide range lineup.
- Small due to L1, light and thin.
- Low-profile design.
- Self-tightening screws and an open/close type cover make wiring work easier.
- Terminal block cover included for safety.

■ SAFETY STANDARDS

UL1283	UL File No. E62388 (Up to 150A)
EN60939-1/-2 (ENEC14)	Licence Ref. No. SE/07115-5 (Up to 60A)
	Licence Ref. No. SE/07115-4 (From 80A)

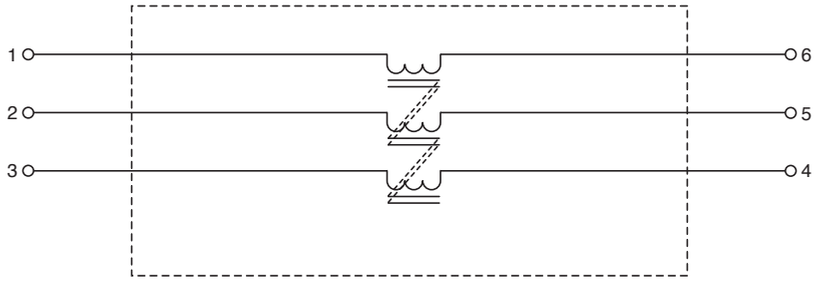
■ PRODUCT IDENTIFICATION

RTCN –5 ***

- Rated current
- Number indicating the rated voltage
- Series name

■ CONFORMITY TO RoHS Directive

■ CIRCUIT DIAGRAM

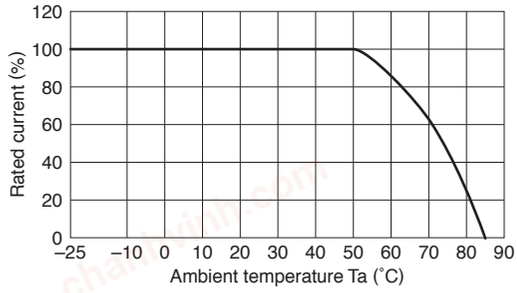


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■ ELECTRICAL CHARACTERISTICS

Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz) Common mode at 10dB	Attenuation frequency range (MHz) Common mode at 5dB	Weight (kg)
RTCN-5006	500V	6A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	—	-25 to +85℃	50℃	145 max.	0.1 to 5	-	0.30
RTCN-5010		10A						60 max.	0.1 to 5	-	0.30
RTCN-5020		20A						25 max.	0.1 to 5	-	0.49
RTCN-5030		30A						13 max.	0.2 to 4	-	0.49
RTCN-5040		40A						10 max.	0.2 to 3	-	0.96
RTCN-5050		50A						7 max.	-	0.2 to 3	0.90
RTCN-5060		60A						5 max.	-	0.2 to 3	0.90
RTCN-5080		80A						5 max.	-	0.1 to 3	3.60
RTCN-5100		100A						4 max.	-	0.1 to 3	3.90
RTCN-5150		150A						3 max.	-	0.1 to 3	6.20
RTCN-5200		200A						4 max.	-	-	8.90
RTCN-5250		250A						3 max.	-	-	8.40
RTCN-5300		300A						2 max.	-	-	8.00

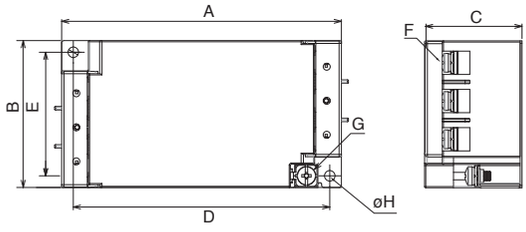
■ DERATING GRAPH



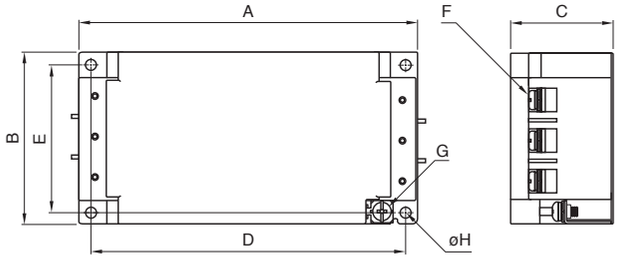
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■ MECHANICAL

RTCN-5006/5010



RTCN-5020/5030/5040/5050/5060

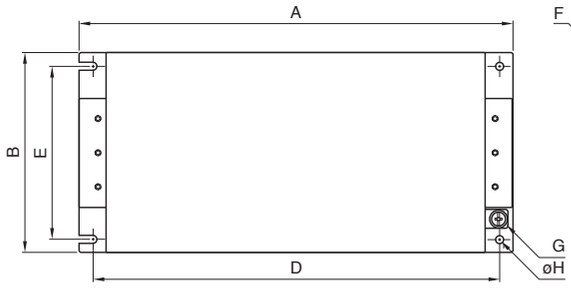


Dimensions in mm

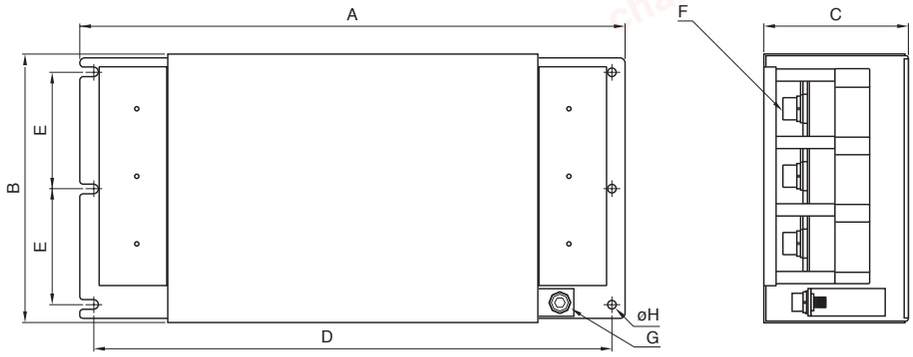
Part No.	A	B	C	D	E	F	G	ϕH	Recommended clamping torque
RTCN-5006	120	63	42	110	53	M4	M4	4.5	M4：1.27N・m M5：2.5N・m
RTCN-5010									
RTCN-5020	140	70	42	130	60	M4	M4	4.5	
RTCN-5030									
RTCN-5040	170	90	54	160	80	M5	M4	4.5	
RTCN-5050									
RTCN-5060									

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RTCN-5080/5100/5150



RTCN-5200/5250/5300



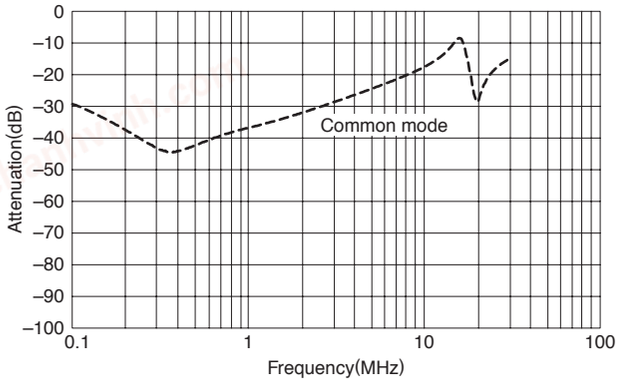
Dimensions in mm

Part No.	A	B	C	D	E	F	G	ϕH	Recommended clamping torque
RTCN-5080	267	161	85	247	135	M8	M6	6.5	M6：4.8N・m M8：7.64N・m M10：11.8N・m
RTCN-5100									
RTCN-5150	290	190	88	270	164	M8	M6	6.5	
RTCN-5200	390	195	103	370	84.5	M10	M8	6.5	
RTCN-5250									
RTCN-5300									

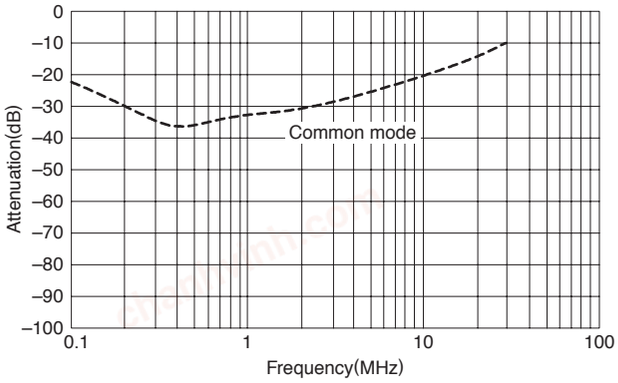
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■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

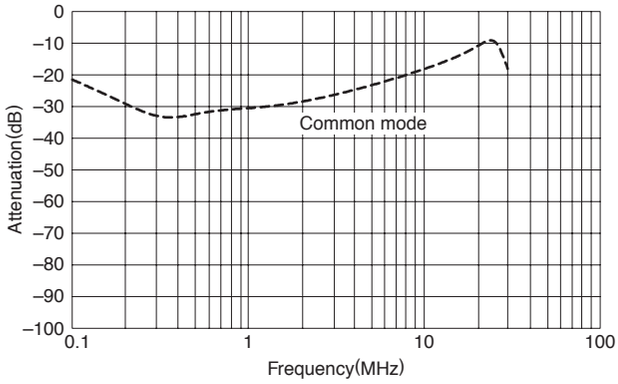
RTCN-5006



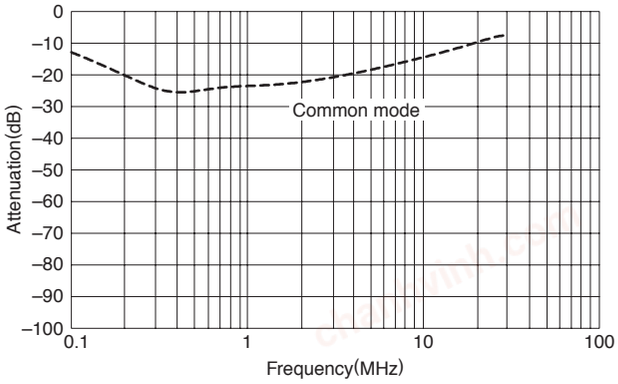
RTCN-5010



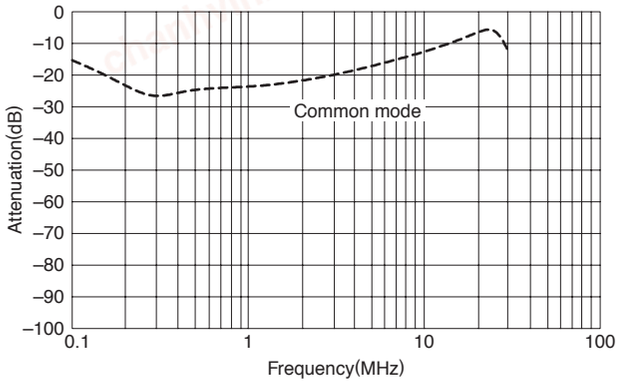
RTCN-5020



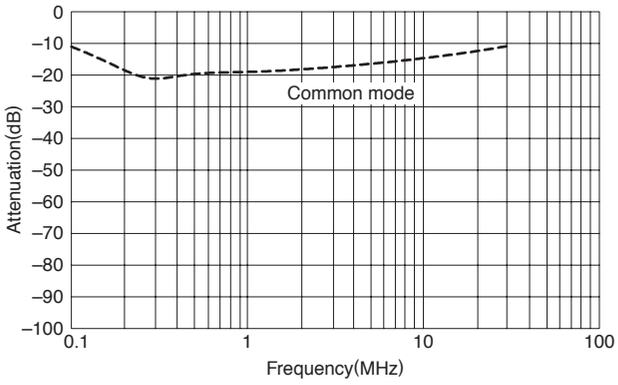
RTCN-5030



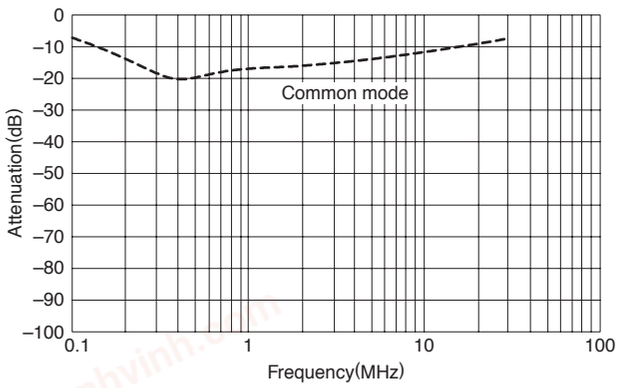
RTCN-5040



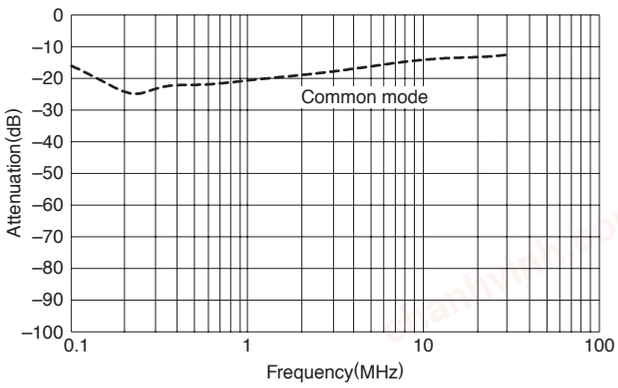
RTCN-5050



RTCN-5060

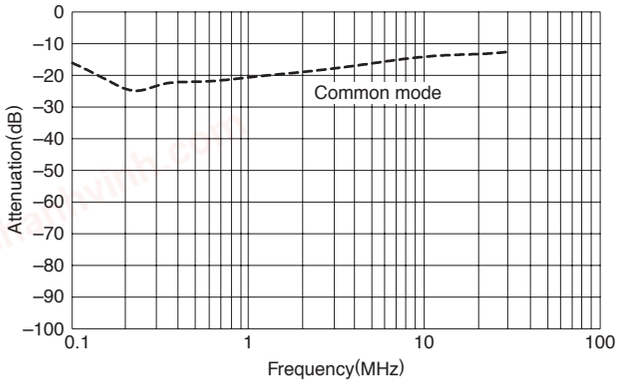


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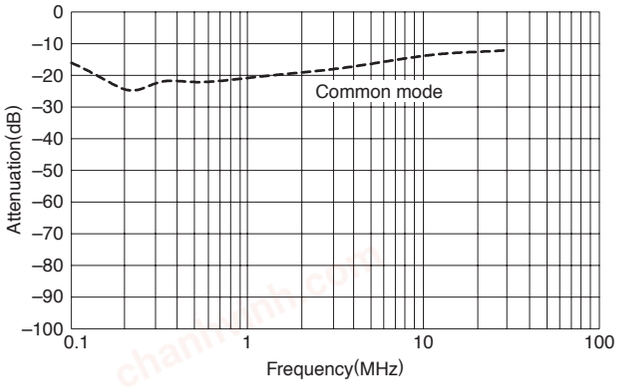


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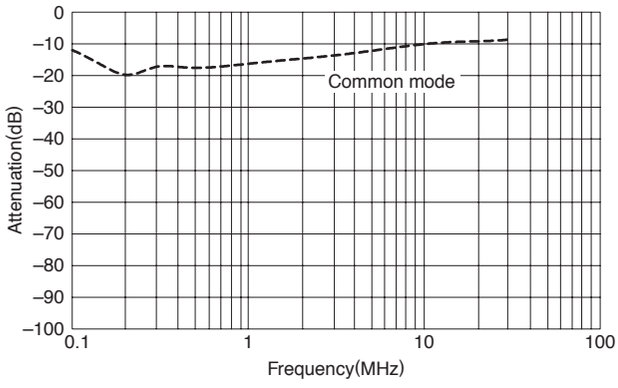
RTCN-5100



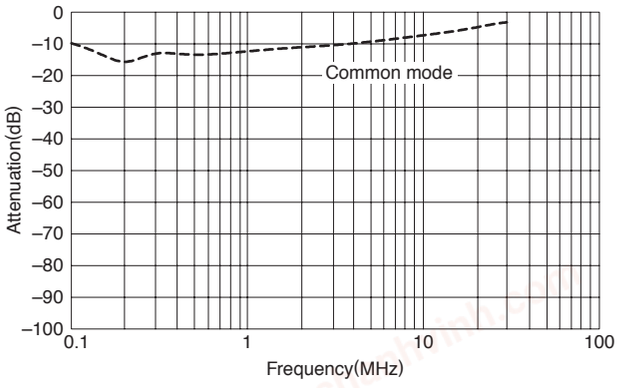
RTCN-5150



RTCN-5200



RTCN-5250



RTCN-5300

