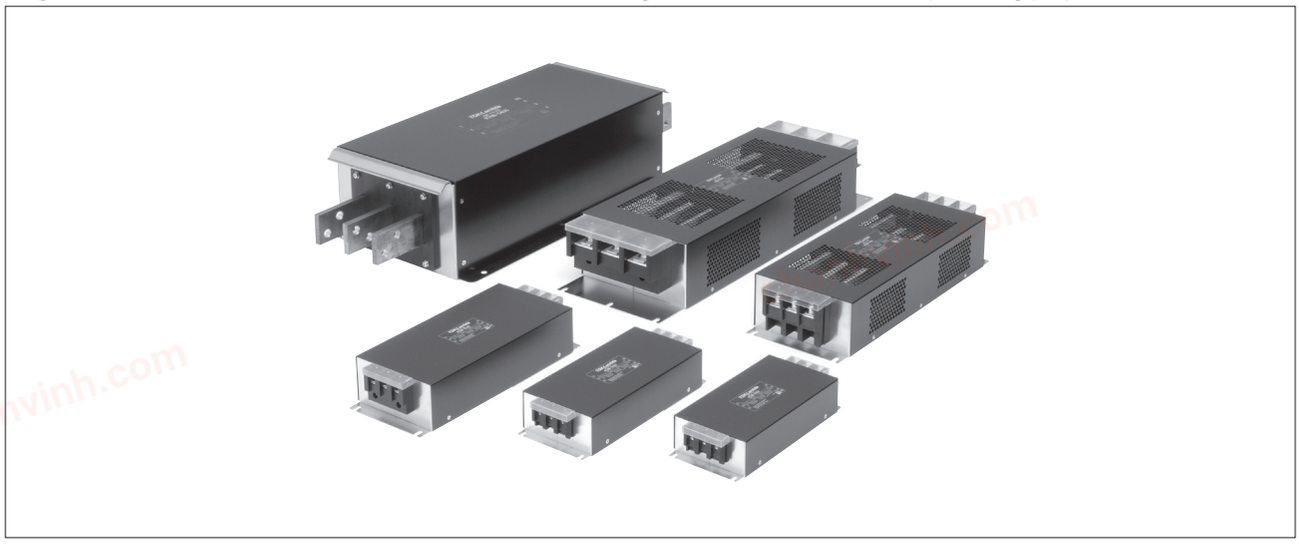
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RTHN SERIES

High-Attenuation Three-Phase Filter with Many Current Variations (Thin Type)



■ FEATURES

- 6 to 300A wide range lineup.
- High attenuation, thin type with L2.
- 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/07115-4

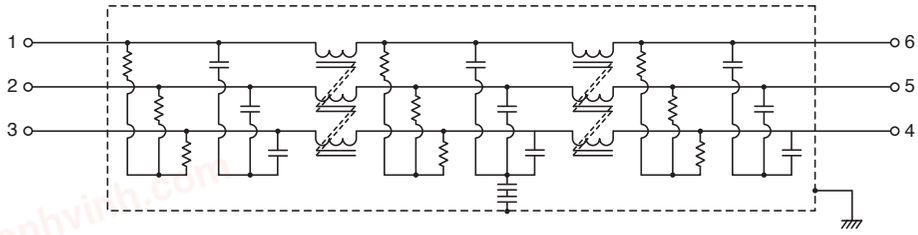
■ PRODUCT IDENTIFICATION

RTHN –5 ***

- *** — Rated current
- –5 — Number indicating the rated voltage
- RTHN — Series name

■ CONFORMITY TO RoHS Directive

■ CIRCUIT DIAGRAM

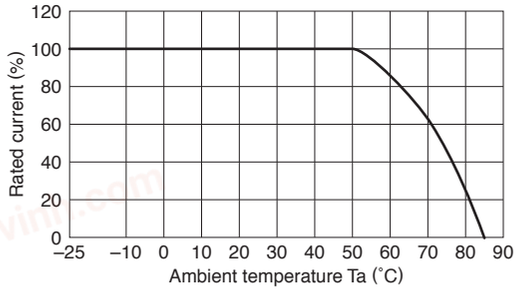


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■ ELECTRICAL CHARACTERISTICS

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)		Weight (kg)
									Common mode at 25dB	Differential mode at 25dB	
RTHN-5006	500V	6A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	2.5mA max. [250V/60Hz] 5mA max. [500V/60Hz]	-25 to +85℃	50℃	290 max.	0.1 to 10	0.2 to 30	0.7
RTHN-5010		10A						120 max.	0.1 to 10	0.2 to 30	0.7
RTHN-5020		20A						50 max.	0.1 to 10	0.2 to 30	1.0
RTHN-5030		30A						26 max.	0.2 to 10	0.2 to 30	1.0
RTHN-5040		40A						20 max.	0.2 to 10	0.2 to 30	2.1
RTHN-5050		50A						14 max.	0.2 to 10	0.2 to 30	2.0
RTHN-5060		60A						10 max.	0.2 to 10	0.2 to 30	2.0
RTHN-5080		80A						10 max.	0.1 to 10	0.2 to 30	7.0
RTHN-5100		100A						8 max.	0.1 to 10	0.2 to 30	7.5
RTHN-5150		150A						6 max.	0.1 to 10	0.2 to 30	11.6
RTHN-5200		200A						4 max.	0.3 to 10	0.2 to 30	15.8
RTHN-5250		250A						3 max.	0.3 to 10	0.2 to 30	15.0
RTHN-5300		300A						2 max.	0.5 to 6	0.2 to 30	14.3

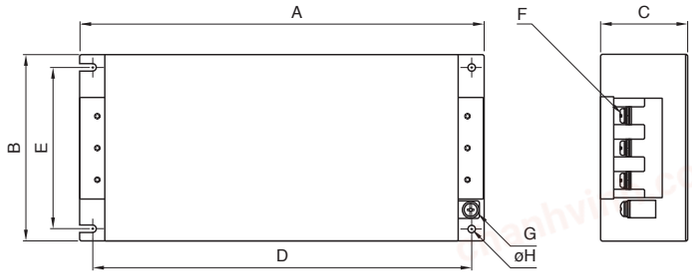
■ DERATING GRAPH



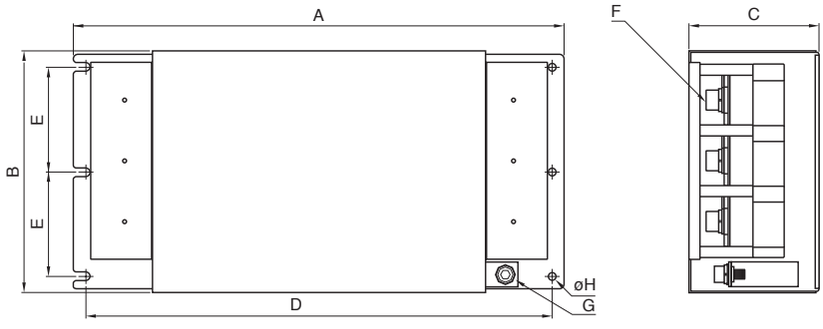
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■ MECHANICAL

RTHN-5006/5010/5020/5030/5040/5050/5060/5080/5100/5150



RTHN-5200/5250/5300



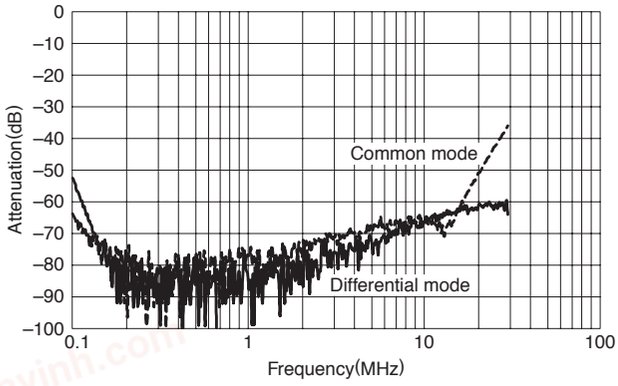
Dimensions in mm

Part No.	A	B	C	D	E	F	G	ϕH	Recommended clamping torque
RTHN-5006	210	95	50	195	78	M4	M4	4.5	M4：1.27N・m M5：2.5N・m M6：4.8N・m M8：7.64N・m M10：11.8N・m
RTHN-5010									
RTHN-5020	240	105	55	225	85	M4	M4		
RTHN-5030									
RTHN-5040	300	128	68	280	102	M5	M4	5.5	
RTHN-5050									
RTHN-5060									
RTHN-5080	430	161	85	410	135	M8	M6	6.5	
RTHN-5100									
RTHN-5150	473	190	88	453	164	M8	M6		
RTHN-5200	593	195	103	573	84.5	M10	M8		
RTHN-5250									
RTHN-5300									

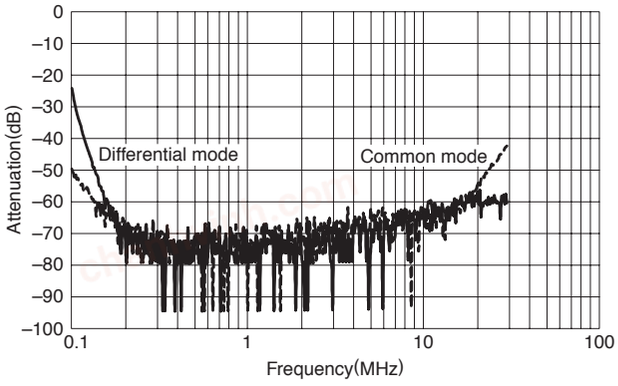
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■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

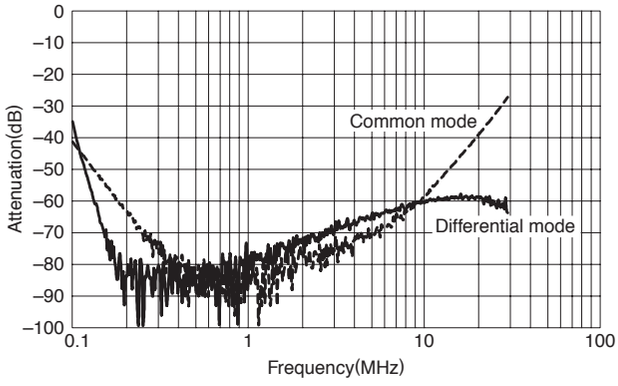
RTHN-5006



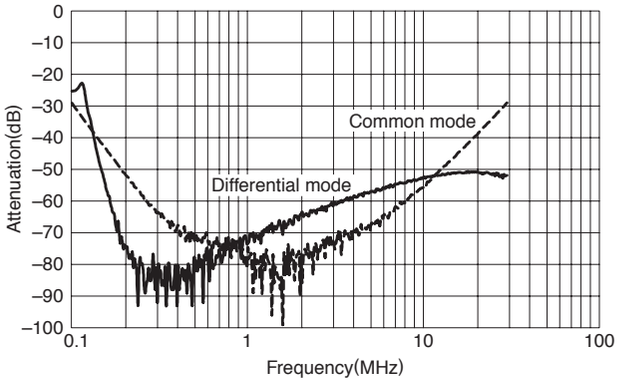
RTHN-5010



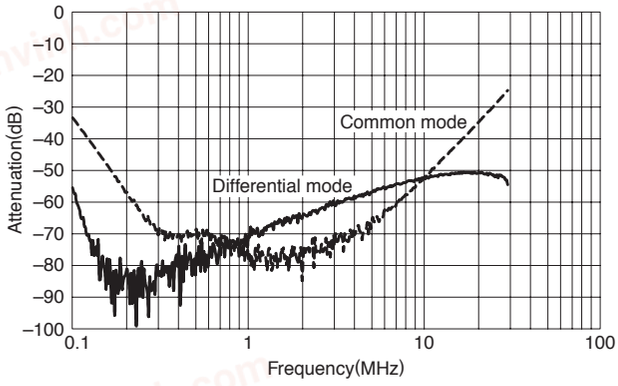
RTHN-5020



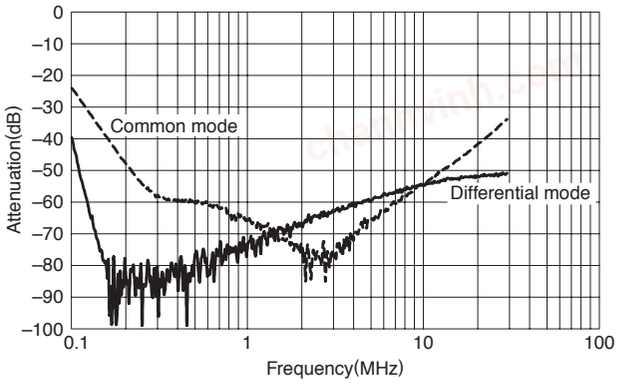
RTHN-5030



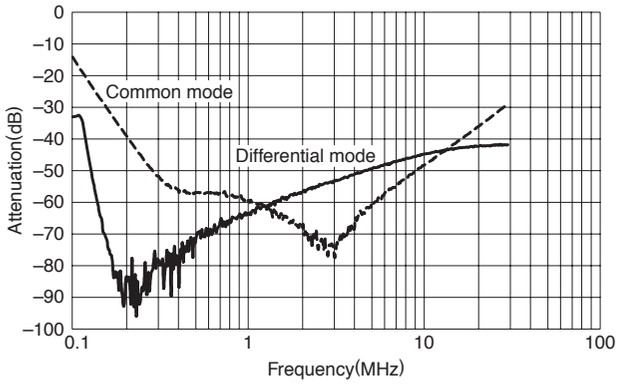
RTHN-5040



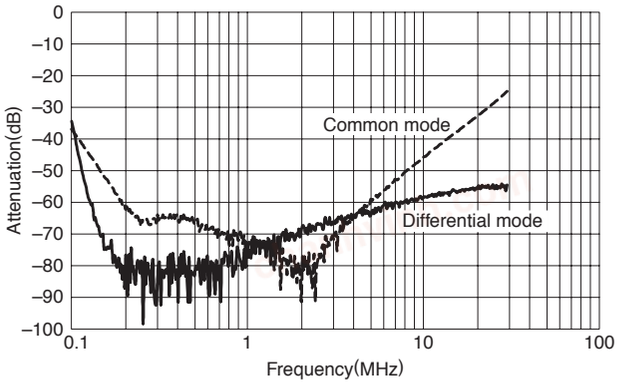
RTHN-5050



RTHN-5060

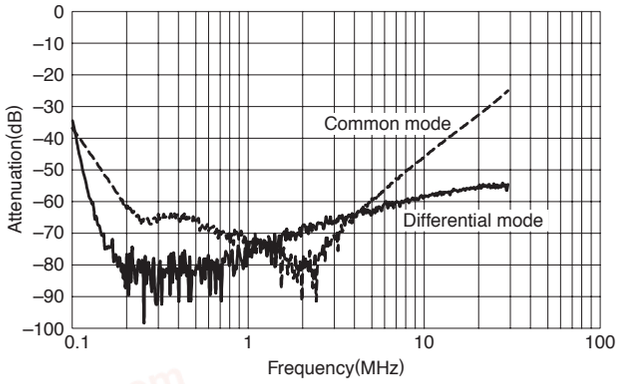


RTHN-5080

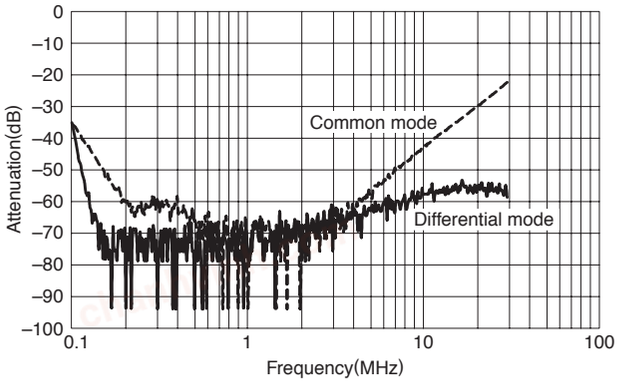


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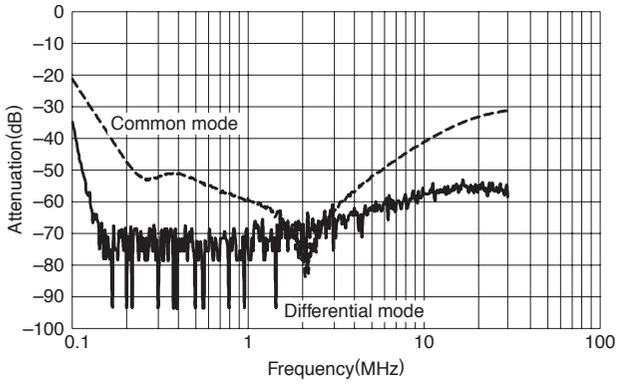
RTHN-5100



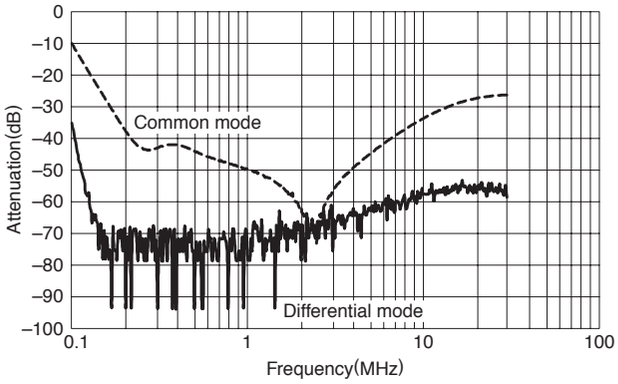
RTHN-5150



RTHN-5200



RTHN-5250



RTHN-5300

