



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RTHN SERIES

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



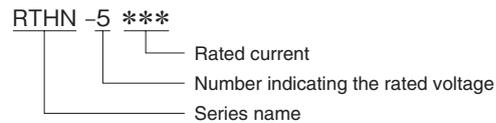
FEATURES

- 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.
- Compliant with RoHS directives.

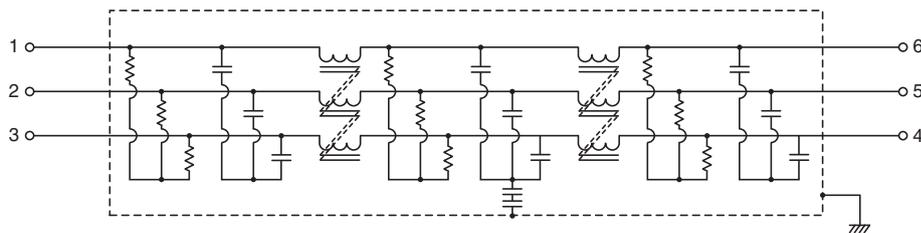
SAFETY STANDARDS

- | | |
|---------|--|
| UL1283 | File No. E62388 (Up to 150A) |
| EN60939 | Licence Ref. No. SE/07115-4 (Up to 300A) |

PRODUCT IDENTIFICATION



CIRCUIT DIAGRAMS



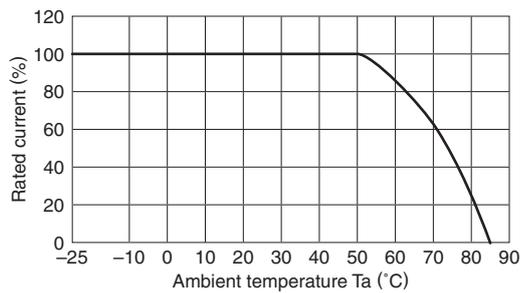
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

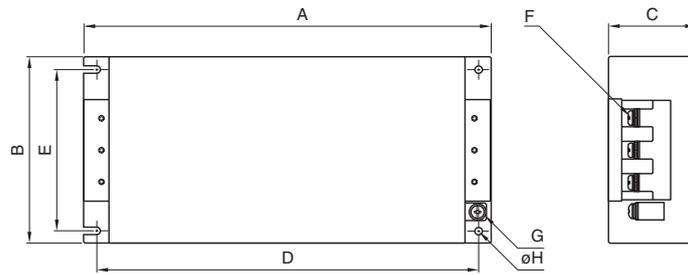
Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)		Weight (kg)
									Common mode	Differential mode	
									at 25dB	at 25dB	
RTHN-5006	500V	6A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	2.5mA max. [250V/60Hz]	-25 to +85°C	50°C	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 20	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

DERATINGS

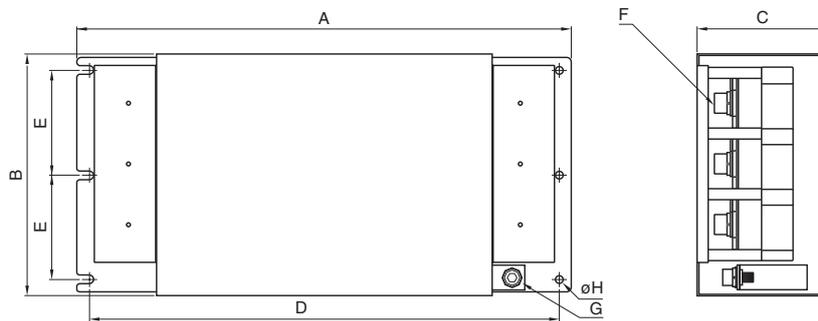


■ SHAPES AND DIMENSIONS

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



RTHN-5200/5250/5300

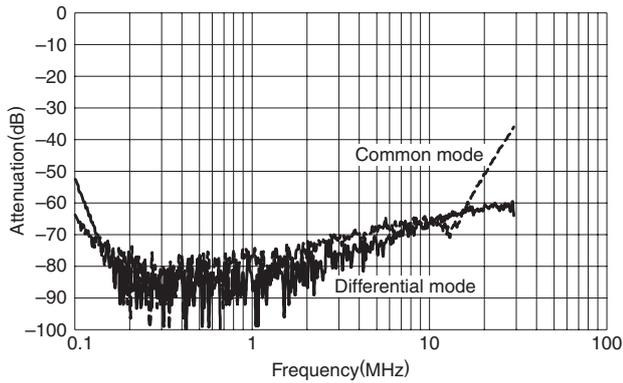


Dimensions in mm

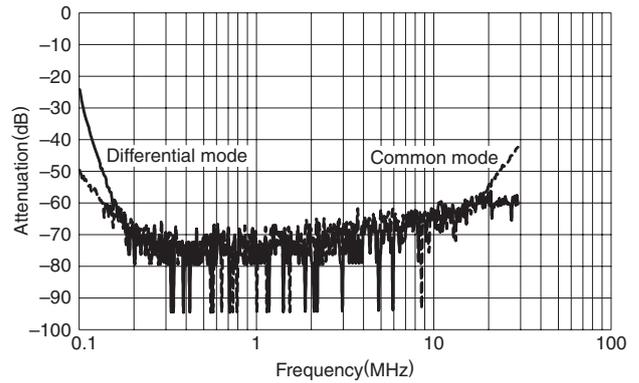
Part No.	A	B	C	D	E	F	G	φ H	Recommended clamping torque
RTHN-5006	210	95	50	195	78	M4	M4	4.5	M4 : 1.27N · m M5 : 2.5N · m M6 : 4.8N · m M8 : 7.64N · m M10 : 11.8N · m
RTHN-5010									
RTHN-5020									
RTHN-5030	240	105	55	225	85	M4	M4		
RTHN-5040									
RTHN-5050									
RTHN-5060	300	128	68	280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

■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

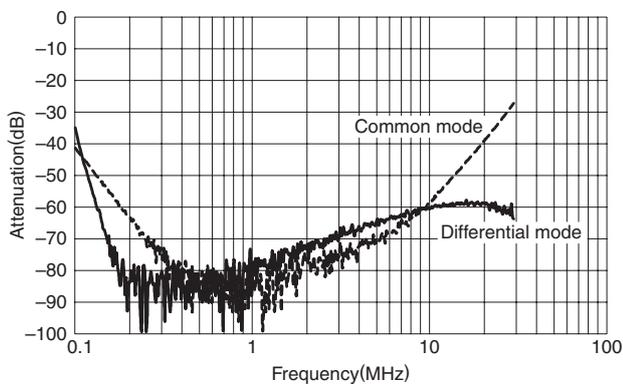
RTHN-5006



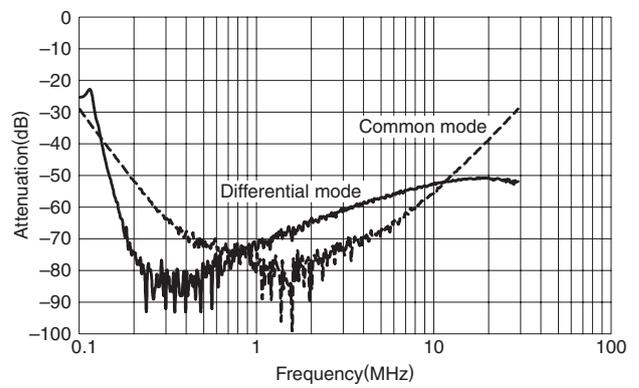
RTHN-5010



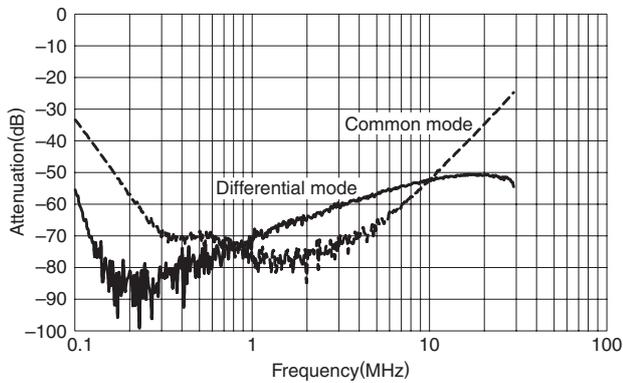
RTHN-5020



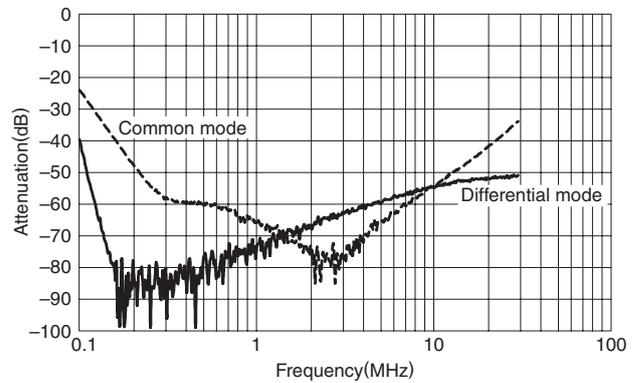
RTHN-5030



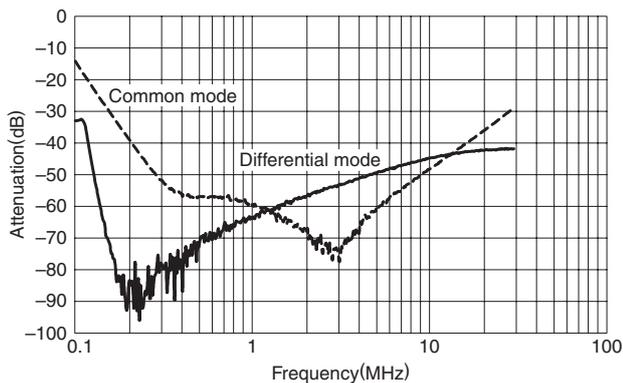
RTHN-5040



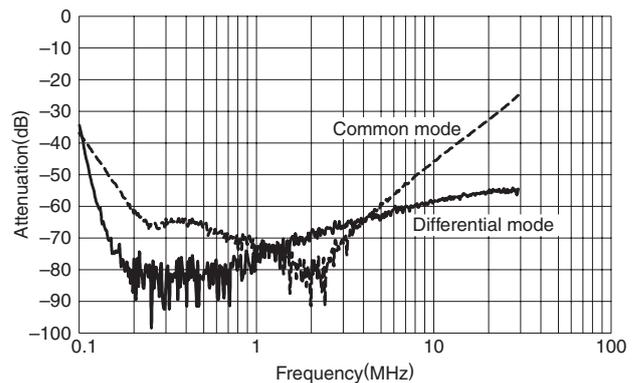
RTHN-5050



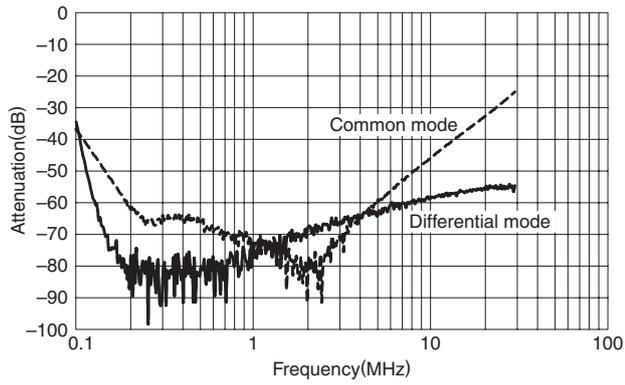
RTHN-5060



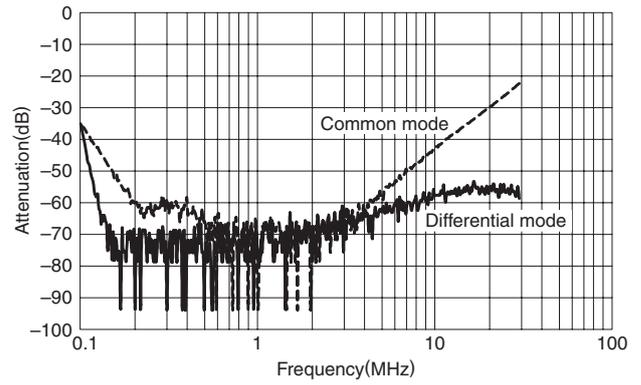
RTHN-5080



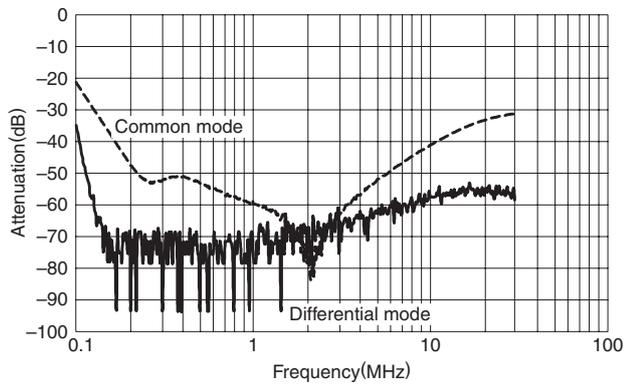
RTHN-5100



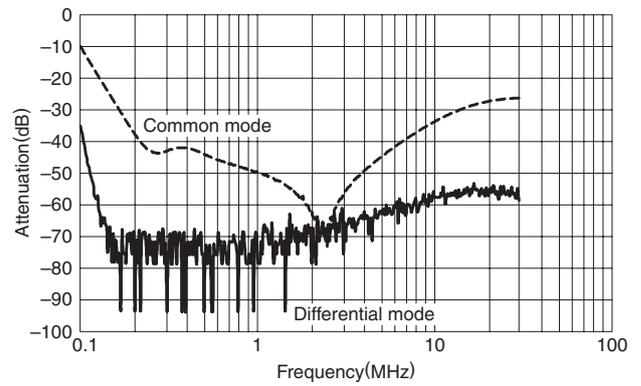
RTHN-5150



RTHN-5200



RTHN-5250



RTHN-5300

