

## RTHB SERIES

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



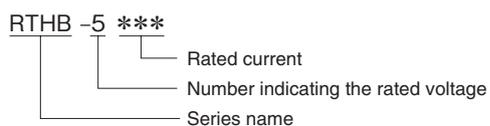
#### FEATURES

- 6 to 150A wide range lineup.
- Rectangular shape with L2 high attention.
- Thin.
- Self-tightening screws and an open/close type cover make wiring work easier.
- Terminal block cover included for safety.
- Compliant with RoHS directives.

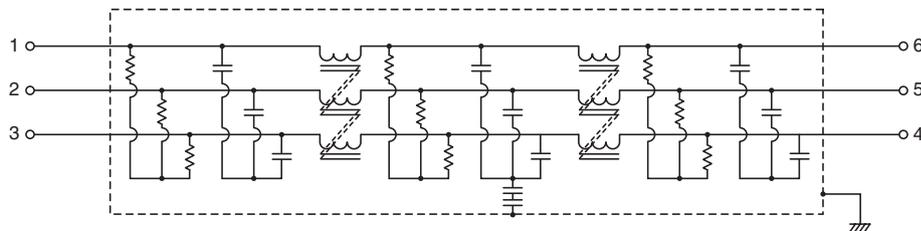
#### SAFETY STANDARDS

UL1283                      File No. E62388  
 EN60939                  Licence Ref. No. SE/07115-4

#### PRODUCT IDENTIFICATION



#### CIRCUIT DIAGRAM



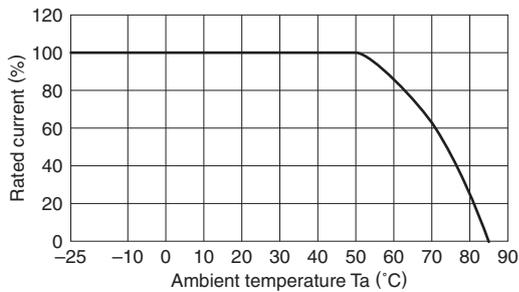
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

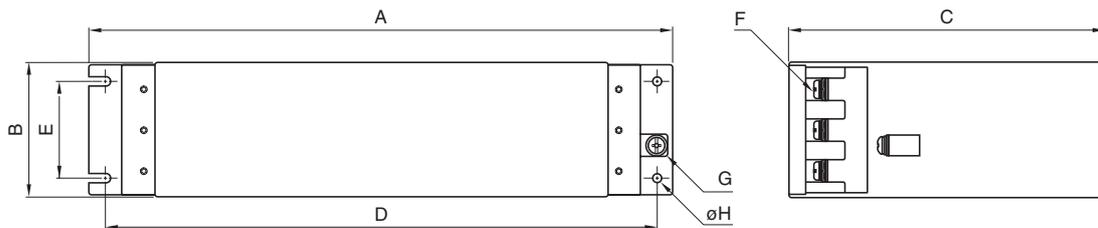
## ELECTRICAL CHARACTERISTICS

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	
RTHB-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°C	50°C	290 max.	0.1 to 30	0.1 to 30	0.75
RTHB-5010		10A						120 max.	0.1 to 20	0.2 to 30	0.78
RTHB-5020		20A						50 max.	0.1 to 20	0.2 to 30	1.10
RTHB-5030		30A						26 max.	0.2 to 20	0.2 to 30	1.10
RTHB-5040		40A						20 max.	0.2 to 20	0.1 to 30	2.24
RTHB-5050		50A						14 max.	0.2 to 20	0.2 to 30	2.24
RTHB-5060		60A						10 max.	0.2 to 20	0.2 to 10	2.24
RTHB-5080		80A						10 max.	0.1 to 10	0.2 to 30	7.70
RTHB-5100		100A						8 max.	0.1 to 10	0.2 to 30	8.20
RTHB-5150		150A						6 max.	0.1 to 10	0.2 to 30	12.50

## DERATINGS



## SHAPES AND DIMENSIONS



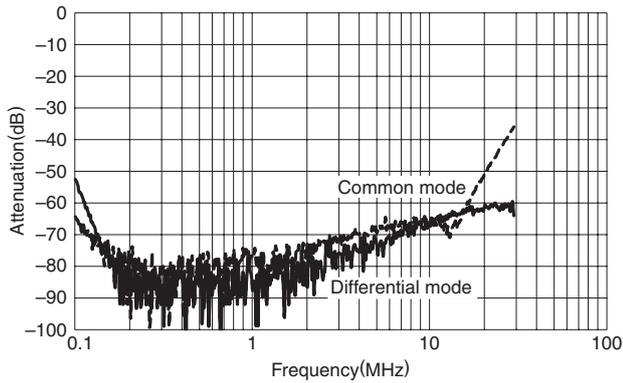
Dimensions in mm

Part No.	A	B	C	D	E	F	G	φH	Recommended clamping torque
RTHB-5006	210	64	100	200	40	M4	M4	4.5	
RTHB-5010									
RTHB-5020	240	64	115	230	40	M4	M4	4.5	
RTHB-5030									
RTHB-5040	300	80	140	285	46	M5	M4	5.5	
RTHB-5050									
RTHB-5060									
RTHB-5080	472	100	205	452	63	M8	M6	6.5	
RTHB-5100									
RTHB-5150	534	100	234	514	63	M8	M6	6.5	

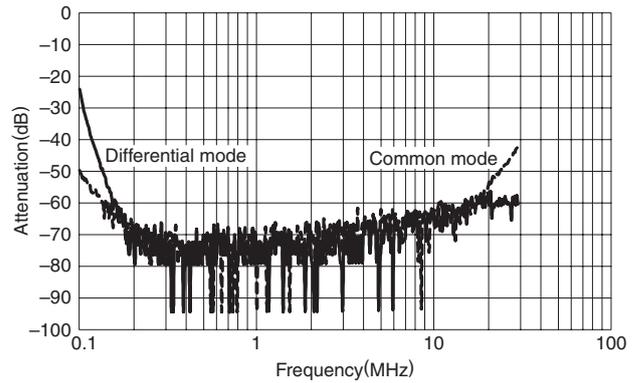
M4 : 1.27N · m  
M5 : 2.5N · m  
M6 : 4.8N · m  
M8 : 7.64N · m

**ATTENUATION vs. FREQUENCY CHARACTERISTICS**

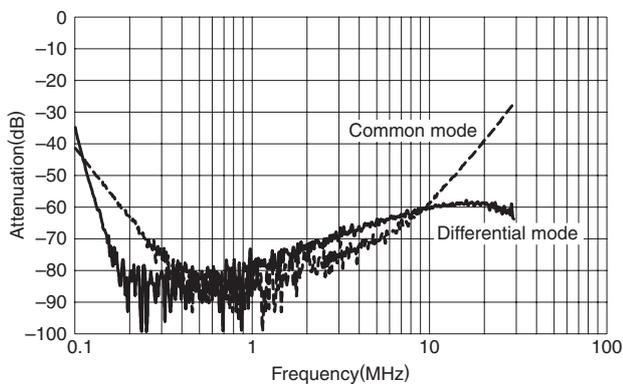
RTHB-5006



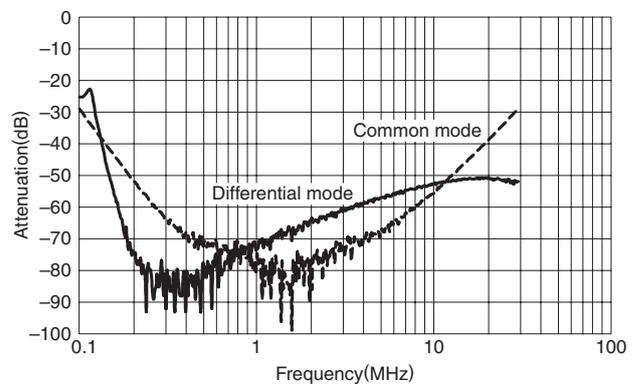
RTHB-5010



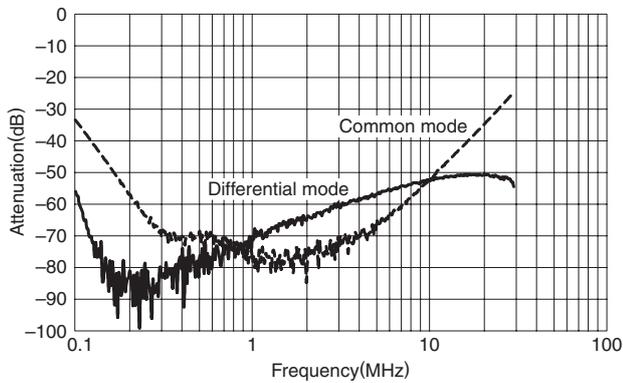
RTHB-5020



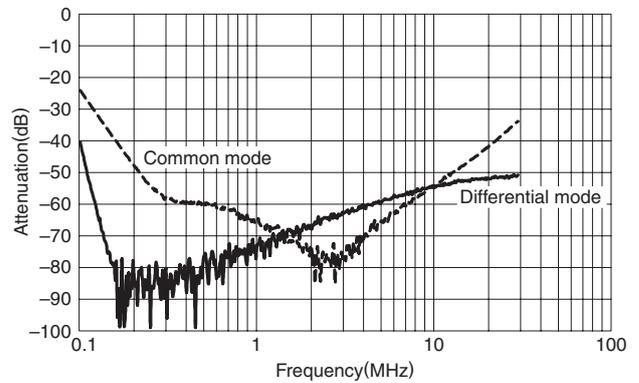
RTHB-5030



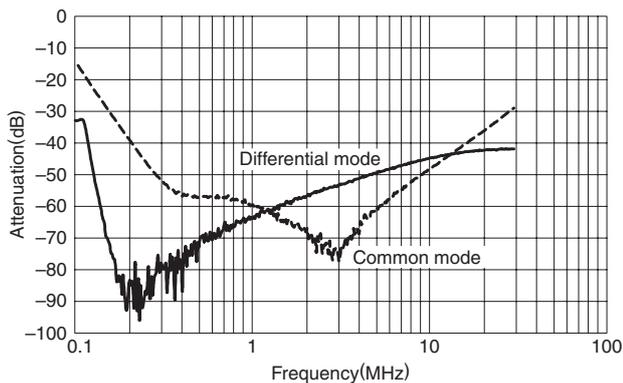
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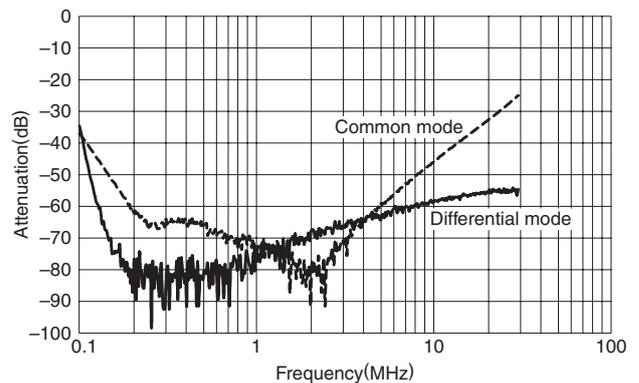
RTHB-5050



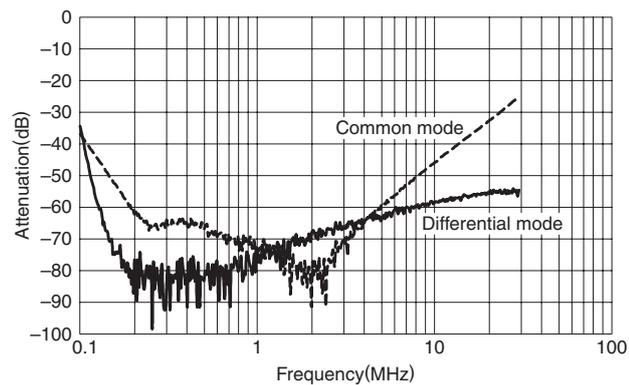
RTHB-5060



RTHB-5080



RTHB-5100



RTHB-5150

