

## RTHC SERIES

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



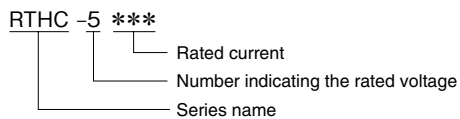
#### FEATURES

- 6 to 300A wide range lineup.
- Cube shape with L2 high attenuation .
- Small base and short connection width.
- Self-tightening screws and an open/close type cover make wiring work easier.
- Terminal block cover included for safety.
- Compliant with RoHS directives.

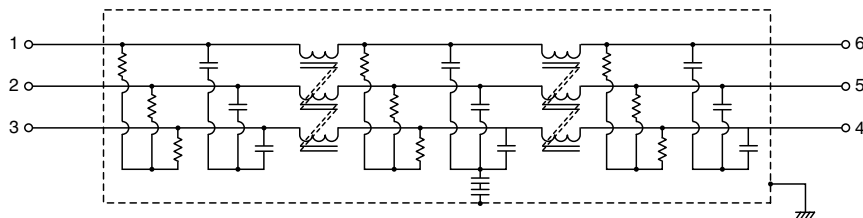
#### SAFETY STANDARDS

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

#### PRODUCT IDENTIFICATION



#### CIRCUIT DIAGRAM



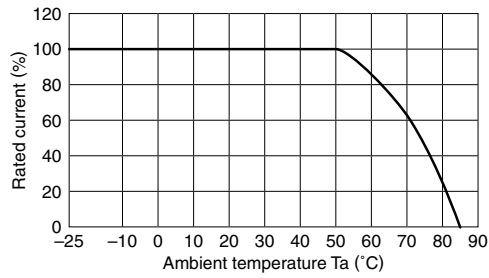
● Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

● All specifications are subject to change without notice.

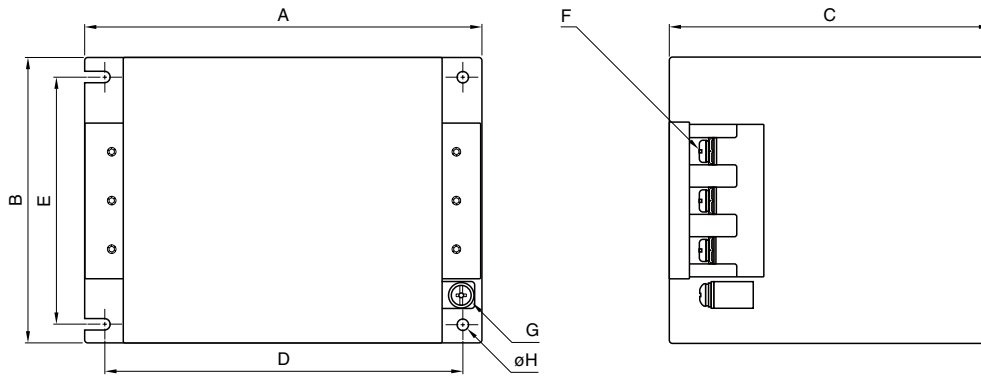
**ELECTRICAL CHARACTERISTICS**

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)	
									Common mode	Differential mode
									at 25dB	at 25dB
RTHC-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
RTHC-5010		10A						120 max.	0.1 to 20	0.2 to 30
RTHC-5020		20A						50 max.	0.1 to 20	0.2 to 30
RTHC-5030		30A						26 max.	0.2 to 20	0.2 to 30
RTHC-5040		40A						20 max.	0.2 to 20	0.1 to 30
RTHC-5050		50A						14 max.	0.2 to 20	0.2 to 30
RTHC-5060		60A						10 max.	0.2 to 20	0.2 to 30
RTHC-5080		80A						10 max.	0.1 to 10	0.2 to 30
RTHC-5100		100A						8 max.	0.1 to 10	0.2 to 30
RTHC-5150		150A						6 max.	0.1 to 10	0.2 to 30
RTHC-5200		200A						4 max.	0.3 to 20	0.2 to 30
RTHC-5250		250A						3 max.	0.3 to 10	0.2 to 30
RTHC-5300		300A						2 max.	0.5 to 6	0.2 to 30

**DERATINGS**



■ SHAPES AND DIMENSIONS

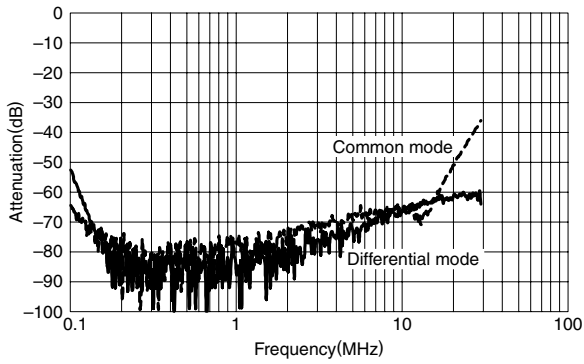


Dimensions in mm

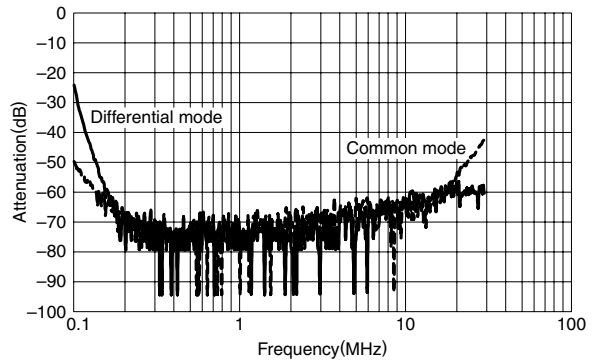
Part No.	A	B	C	D	E	F	G	φH	Recommended clamping torque
RTHC-5006	145	95	120	130	78	M4	M4	4.5	M4 : 1.27N · m M5 : 2.5N · m M6 : 4.8N · m M8 : 7.64N · m M10 : 11.8N · m
RTHC-5010									
RTHC-5020	160	105	135	145	85	M4	M4		
RTHC-5030									
RTHC-5040									
RTHC-5050	190	128	160	170	102	M5	M4	5.5	
RTHC-5060									
RTHC-5080	240	161	210	220	135	M8	M6	6.5	
RTHC-5100									
RTHC-5150	255	190	232	235	164	M8	M6	6.5	
RTHC-5200	340	195	262	320	169	M10	M8	6.5	
RTHC-5250									
RTHC-5300									

■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

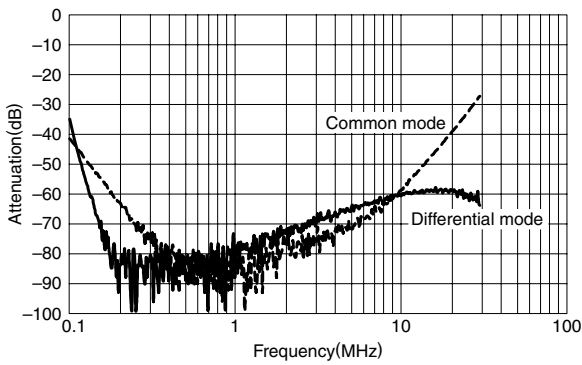
RTHC-5006



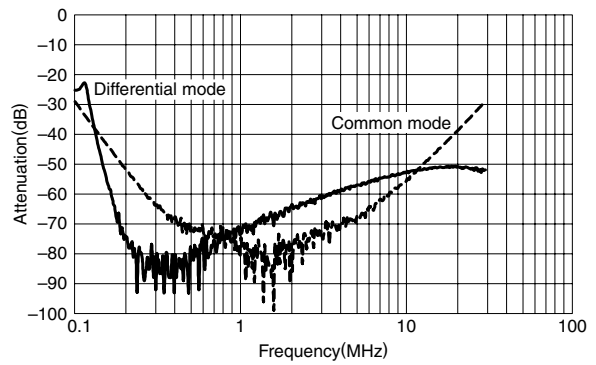
RTHC-5010



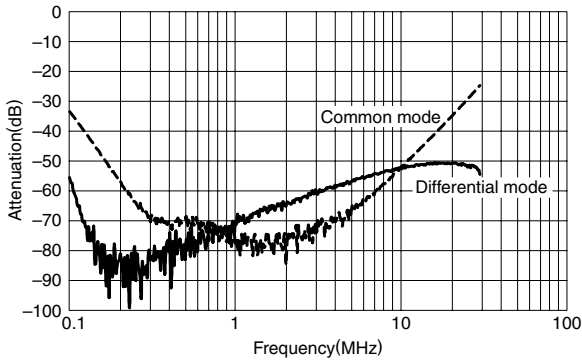
RTHC-5020



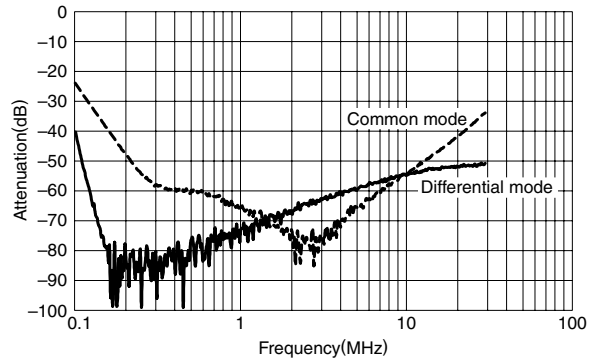
RTHC-5030



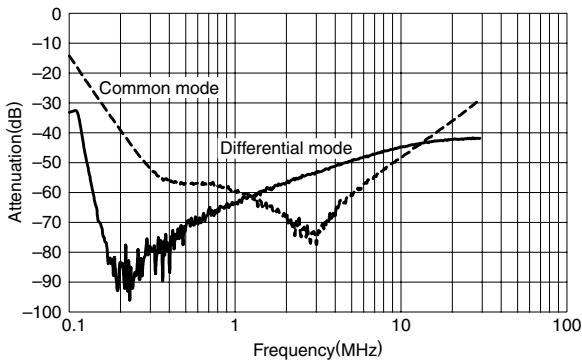
RTHC-5040



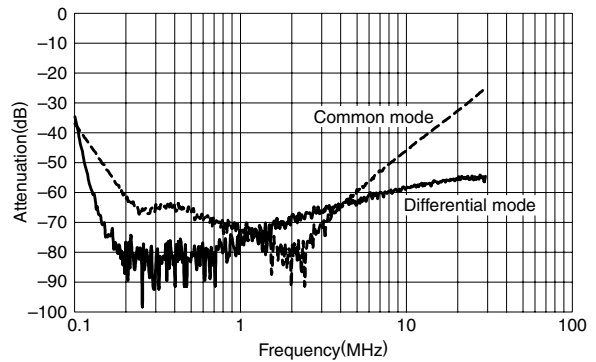
RTHC-5050



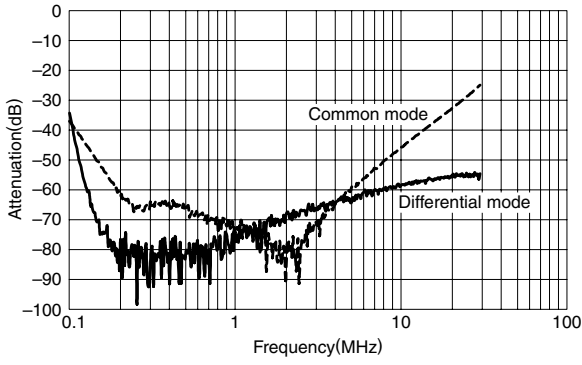
RTHC-5060



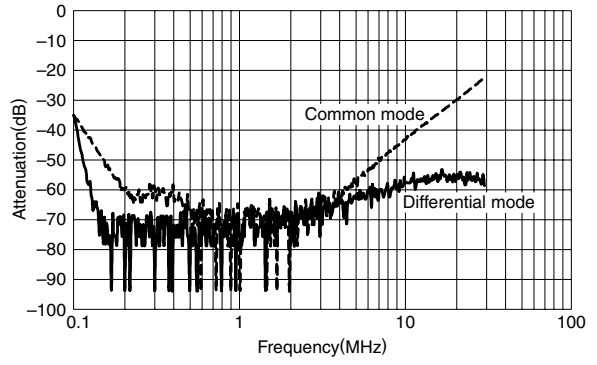
RTHC-5080



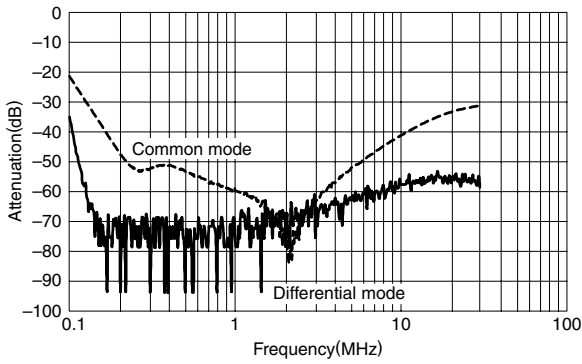
RTHC-5100



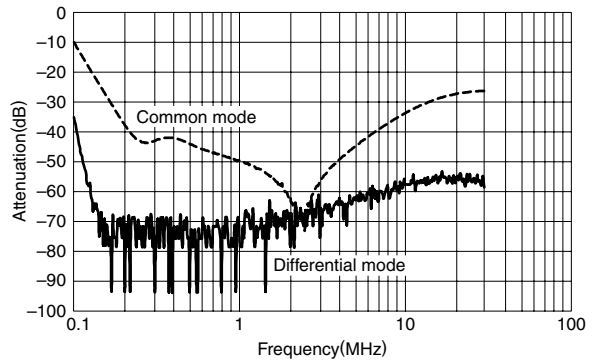
RTHC-5150



RTHC-5200



RTHC-5250



RTHC-5300

