

RTHB SERIES

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



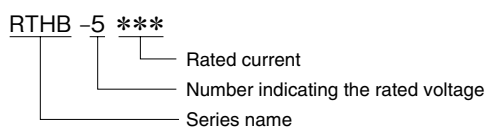
FEATURES

- 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.

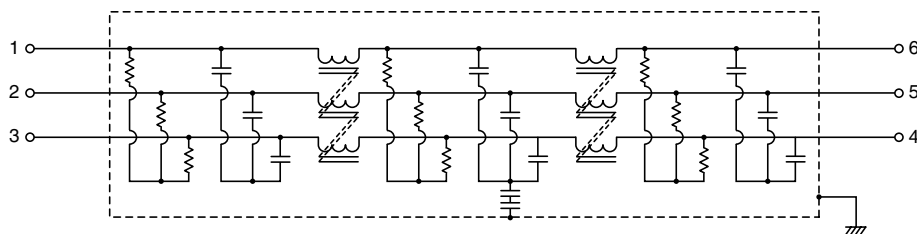
SAFETY STANDARDS

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

PRODUCT IDENTIFICATION



CIRCUIT DIAGRAM



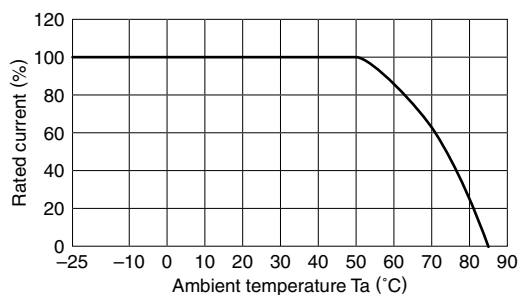
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

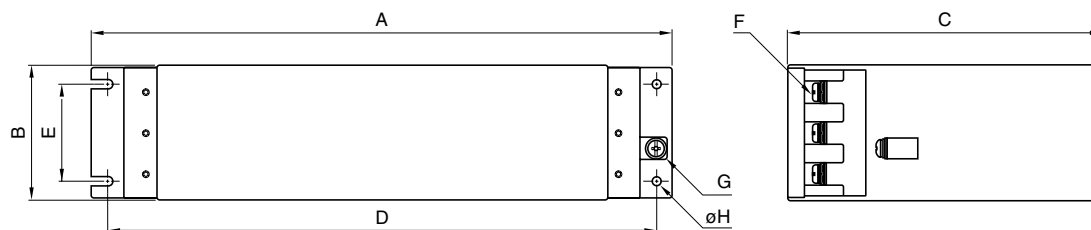
ELECTRICAL CHARACTERISTICS

| 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) | |
|-----------|-----------------------|-----------------------|---|--------------------------------------|--|-----------------------------|--------------------|--------------------|-----------------------------------|-------------------|
| | | | | | | | | | 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 |
| RTHB-5010 | | 10A | | | | | | 120 max. | 0.1 to 20 | 0.2 to 30 |
| RTHB-5020 | | 20A | | | | | | 50 max. | 0.1 to 20 | 0.2 to 30 |
| RTHB-5030 | | 30A | | | | | | 26 max. | 0.2 to 20 | 0.2 to 30 |
| RTHB-5040 | | 40A | | | | | | 20 max. | 0.2 to 20 | 0.1 to 30 |
| RTHB-5050 | | 50A | | | | | | 14 max. | 0.2 to 20 | 0.2 to 30 |
| RTHB-5060 | | 60A | | | | | | 10 max. | 0.2 to 20 | 0.2 to 10 |
| RTHB-5080 | | 80A | | | | | | 10 max. | 0.1 to 10 | 0.2 to 30 |
| RTHB-5100 | | 100A | | | | | | 8 max. | 0.1 to 10 | 0.2 to 30 |
| RTHB-5150 | | 150A | | | | | | 6 max. | 0.1 to 10 | 0.2 to 30 |

DERATINGS



SHAPES AND DIMENSIONS

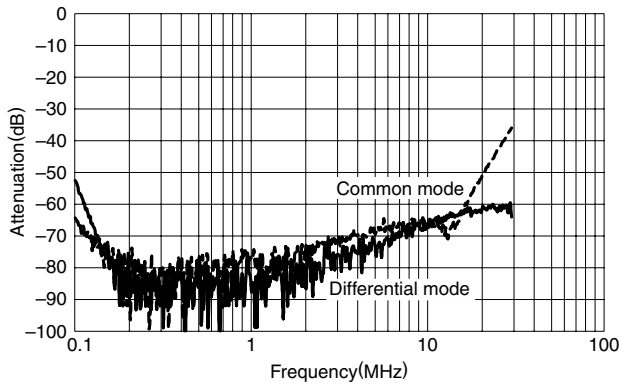


Dimensions in mm

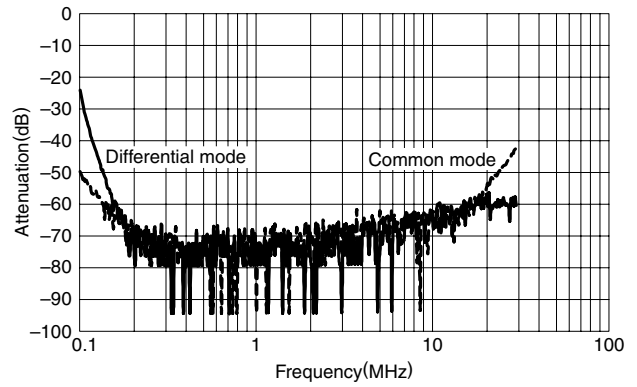
| Part No. | A | B | C | D | E | F | G | φH | Recommended clamping torque |
|-----------|-----|-----|-----|-----|----|----|----|-----|--|
| RTHB-5006 | 210 | 64 | 100 | 200 | 40 | M4 | M4 | 4.5 | M4 : 1.27N · m M5 : 2.5N · m M6 : 4.8N · m M8 : 7.64N · m |
| RTHB-5010 | | | | | | | | | |
| RTHB-5020 | 240 | 64 | 115 | 230 | 40 | M4 | M4 | 4.5 | |
| RTHB-5030 | | | | | | | | | |
| RTHB-5040 | | | | | | | | | |
| RTHB-5050 | 300 | 80 | 140 | 285 | 46 | M5 | M4 | 5.5 | |
| 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 | |

ATTENUATION vs. FREQUENCY CHARACTERISTICS

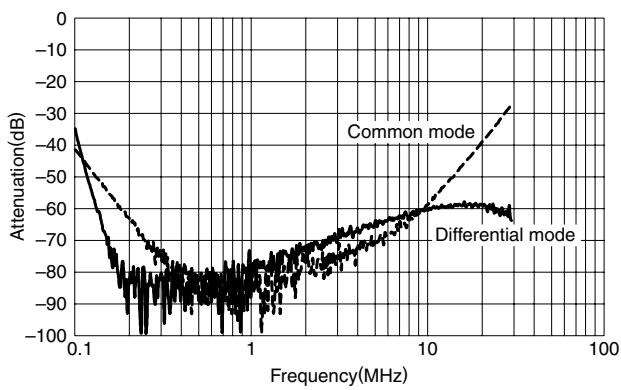
RTHB-5006



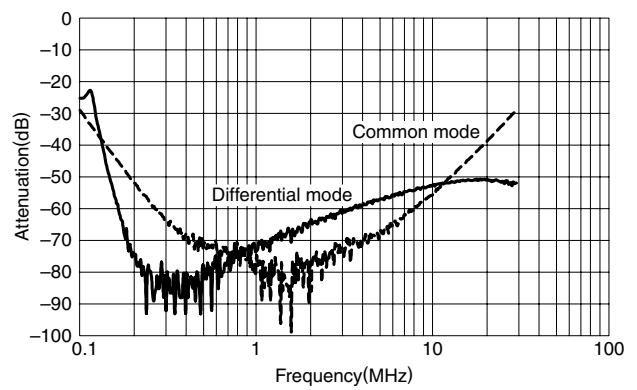
RTHB-5010



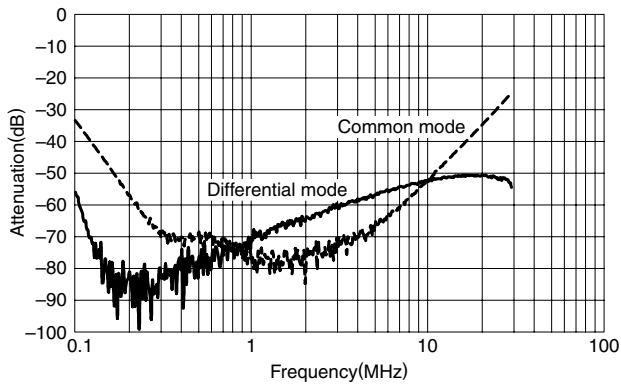
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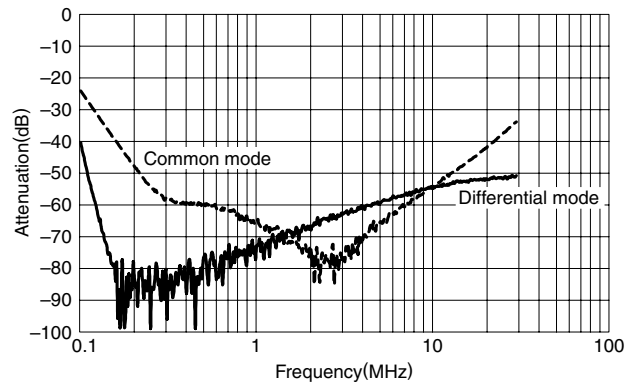
RTHB-5030



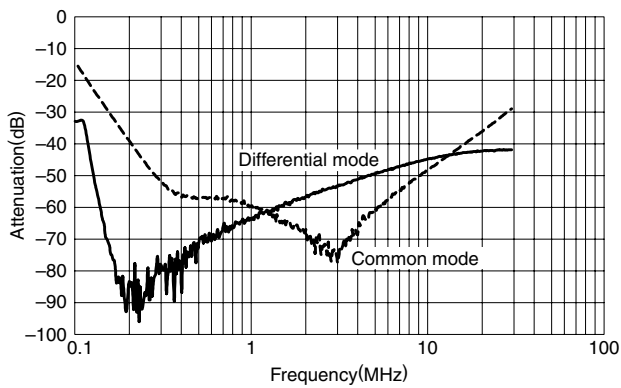
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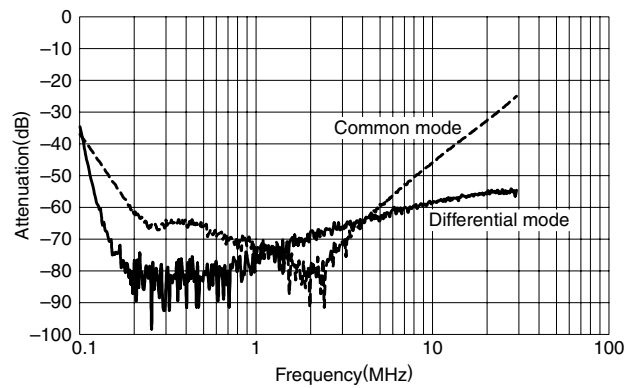
RTHB-5050



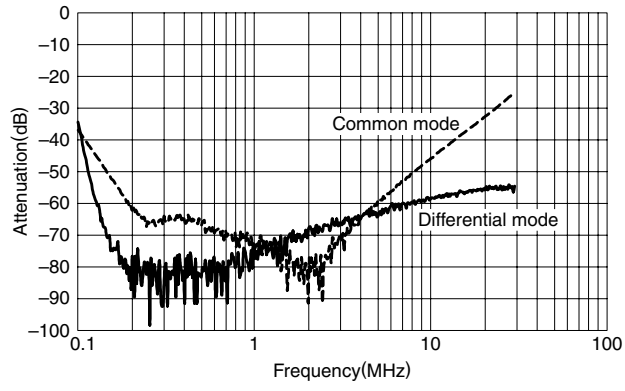
RTHB-5060



RTHB-5080



RTHB-5100



RTHB-5150

