

# RPT5000

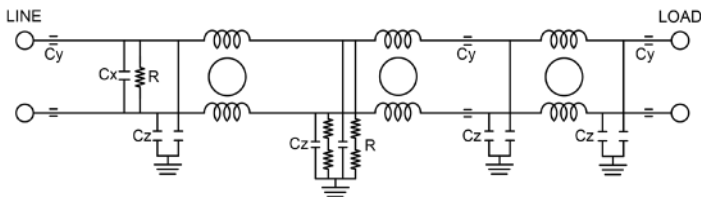
## TEMPEST/COTS **DC** EMI POWER LINE FILTER

### FEATURES

- » Rated currents include **2A, 10A, 15A, 25A and 35A**
- » Multi Stage Line Filter
- » Available with **S** (studs)
- » Agency Approved to RoHS
- » Y-cap value can be adjusted to fit specification



### ELECTRICAL SCHEMATIC



### SPECIFICATIONS

|                        |                   |
|------------------------|-------------------|
| OPERATING FREQUENCY    | DC                |
| MAX. OPERATING VOLTAGE | 400 VDC +10%      |
| AMBIENT TEMPERATURE    | -40 TO 70°C       |
| CLIMATIC CATEGORY      | 25/100/21         |
| TERMINALS (-T)         | STUDS: 2-35A (M5) |
| TYP. WEIGHT, LBS (KG)  | 3.2-6(1.45-2.72)  |

### HIPOT RATINGS

|                |          |
|----------------|----------|
| LINE TO GROUND | 1500 VDC |
|----------------|----------|

### HOW TO ORDER

RPT5000 - Y - Z

- Z = TERMINAL (-T)
- X = RATED CURRENT
- RPT5000=FILTER SERIES

**NOTE:** USE ANY COMBINATION OF -X (AMPS) WITH ANY -Y RATINGS

E.G. **RPT5000-5-S** (5 AMPS)

For **X** and **Y** options see product specification table.

### TYPICAL APPLICATIONS

- ✓ TEMPEST/Mil-461/DO-160

### NOTE:

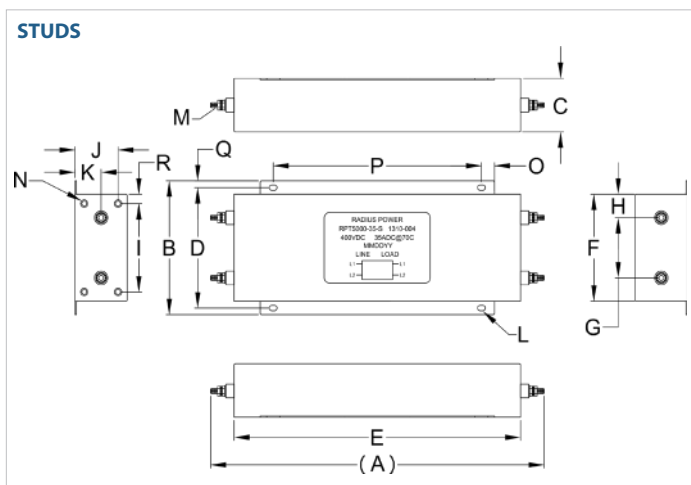
- ✓ Call for other termination types (e.g. Circular Mil Connectors, etc.)

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## TEMPEST/COTS DC EMI POWER LINE FILTER

| MODEL NO.    | RATED CURRENT, A @ 40° C | TERMINAL OPTIONS   |                   |                   | MAX. DIMENSIONS" (MM) |             |           |
|--------------|--------------------------|--------------------|-------------------|-------------------|-----------------------|-------------|-----------|
|              |                          | (QD) INPUT/ OUTPUT | (W) INPUT/ OUTPUT | (S) INPUT/ OUTPUT | WIDTH                 | (LENGTH)    | HEIGHT    |
| RPT5000-5-S  | 5                        |                    |                   | ✓                 | 4.50"(114)            | 9.80"(249)  | 2.00"(51) |
| RPT5000-10-S | 10                       |                    |                   | ✓                 | 4.50"(114)            | 9.80"(249)  | 2.00"(51) |
| RPT5000-15-S | 15                       |                    |                   | ✓                 | 5.00"(127)            | 12.81"(325) | 2.00"(51) |
| RPT5000-25-S | 25                       |                    |                   | ✓                 | 5.00"(127)            | 12.81"(325) | 2.00"(51) |
| RPT5000-35-S | 35                       |                    |                   | ✓                 | 5.00"(127)            | 12.81"(325) | 2.00"(51) |

### RPT5000 MECHANICAL OUTLINES (MM)



| SERIES                   | (A)          | B           | C          | D           | E            | F             | G          | H          | I          | J          | K          | L                                  | M            | N                | O          | P           | Q         | R         |
|--------------------------|--------------|-------------|------------|-------------|--------------|---------------|------------|------------|------------|------------|------------|------------------------------------|--------------|------------------|------------|-------------|-----------|-----------|
| <b>STUDS (5/10A)</b>     | 9.80" (249)  | 4.50" (114) | 2.00" (51) | 4.00" (102) | 8.00" (203)  | 3.50" (89)    | 1.75" (45) | 0.87" (22) | 2.80" (71) | 1.65" (42) | 0.35" (9)  | Ø 0.50"x0.20", 4x (Ø 12.7x5.1, 4x) | STUD, M5, 4x | INSERT, 6-32, 4x | 0.37" (9)  | 5.25" (133) | 0.25" (6) | 0.35" (9) |
| <b>STUDS (15/25/35A)</b> | 12.81" (325) | 5.00" (127) | 2.00" (51) | 4.50" (114) | 11.00" (279) | 40.00" (1016) | 2.25" (57) | 0.87" (22) | 3.30" (84) | 1.65" (42) | 1.00" (25) | Ø 0.29"x0.20", 4x (Ø, 7.6x5.0, 4x) | STUD, M5, 4x | INSERT, 6-32, 4x | 0.50" (13) | 8.00" (203) | 0.25" (6) | 0.35" (9) |

TYPICAL TOLERANCE: +/-0.02" (0.50MM)

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## TEMPEST/COTS **DC** EMI POWER LINE FILTER

### TYPICAL INSERTION LOSS, dB (50/50 Ohm)

| Amps | Freq (MHz) | 0.15 | 0.5 | 1.0 | 10  | 30  |
|------|------------|------|-----|-----|-----|-----|
| 2    | CM (dB)    | 100  | 100 | 100 | 100 | 100 |
|      | DM (dB)    | -    | -   | -   | -   | -   |
| 10   | CM (dB)    | 100  | 100 | 100 | 100 | 100 |
|      | DM (dB)    | -    | -   | -   | -   | -   |
| 15   | CM (dB)    | 100  | 100 | 100 | 100 | 100 |
|      | DM (dB)    | -    | -   | -   | -   | -   |
| 25   | CM (dB)    | 100  | 100 | 100 | 100 | 100 |
|      | DM (dB)    | -    | -   | -   | -   | -   |
| 35   | CM (dB)    | 100  | 100 | 100 | 100 | 100 |
|      | DM (dB)    | -    | -   | -   | -   | -   |