

# RPTC

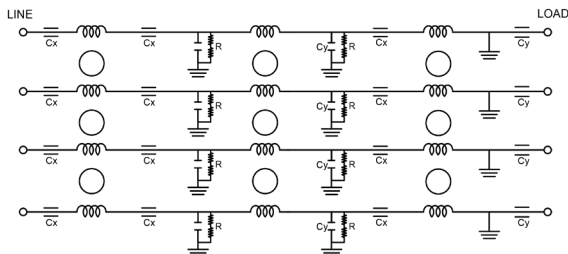
## TEMPEST/COTS AC EMI POWER LINE FILTER

### FEATURES

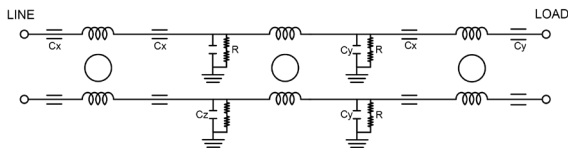
- » Rated currents include **10A, 30A, 60A, 100A, and 225A**
  - » Multi Stage Line Filter
  - » Available with **S** (studs)
  - » Agency Approved to RoHS
- Y-cap value can be adjusted to fit specification

### ELECTRICAL SCHEMATIC

#### RPTC2001/RPTC2004/RPTC2012



#### RPTC2002/RPTC2003/RPTC2010/RPTC2011



### HOW TO ORDER

RPTC2XXX- Y - Z

Z = TERMINAL (-T)  
X = RATED CURRENT

RPTC2XXX=FILTER SERIES

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

E.G. **RPTC2001-225** (225 AMPS)

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



### SPECIFICATIONS

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPERATING FREQUENCY    | 47/63 Hz                                                                                                                                                                    |
| MAX. OPERATING VOLTAGE | RPTC2001 480 VAC +10%<br>RPTC2002 300 VAC +10%<br>RPTC2003 300 VAC +10%<br>RPTC2004 480 VAC +10%<br>RPTC2010 300 VAC +10%<br>RPTC2011 300 VAC +10%<br>RPTC2012 480 VAC +10% |
| AMBIENT TEMPERATURE    | -25 TO 70°C                                                                                                                                                                 |
| CLIMATIC CATEGORY      | 40/100/21                                                                                                                                                                   |
| TERMINALS (-T)         | STUDS: 10A (10-32),<br>30-100A (1/4-20),<br>225A (1/2-13)                                                                                                                   |
| TYP. WEIGHT, LBS (KG)  | 3.0(1.4) - 150.0 (68.0)                                                                                                                                                     |
| SINGLE PHASE           | RPTC2002, RPTC2003<br>RPTC2010, RPTC2011                                                                                                                                    |
| 3-PHASE WYE            | RPTC2001, RPTC2004<br>RPTC2012                                                                                                                                              |
| HIPOT RATINGS          |                                                                                                                                                                             |
| LINE TO GROUND         | 1500 VDC                                                                                                                                                                    |

### TYPICAL APPLICATIONS

- ✓ TEMPEST/Mil-461/DO-160

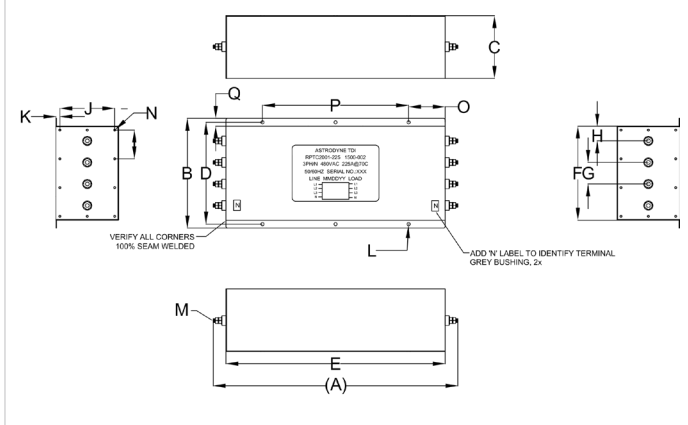
# RPTC

## TEMPEST/COTS AC 3-PHASE **WYE** EMI POWER LINE FILTER

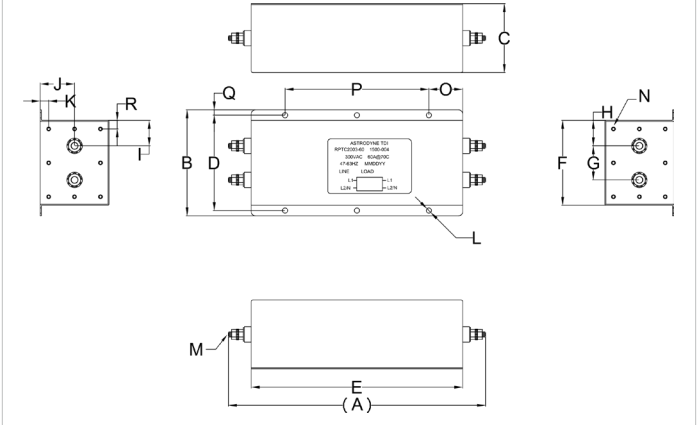
| MODEL NO.    | RATED CURRENT, A @ 40° C | TERMINAL OPTIONS   |                   |                   | MAX. DIMENSIONS" (MM) |             |            |
|--------------|--------------------------|--------------------|-------------------|-------------------|-----------------------|-------------|------------|
|              |                          | (QD) INPUT/ OUTPUT | (W) INPUT/ OUTPUT | (S) INPUT/ OUTPUT | WIDTH                 | (LENGTH)    | HEIGHT     |
| RPTC2001-225 | 225                      |                    |                   | ✓                 | 14.00"(356)           | 31.25"(794) | 8.00"(203) |
| RPTC2002-10  | 10                       |                    |                   | ✓                 | 4.50"(114)            | 9.81"(249)  | 2.00"(51)  |
| RPTC2003-60  | 60                       |                    |                   | ✓                 | 5.00"(127)            | 12.16"(309) | 3.25"(83)  |
| RPTC2004-100 | 100                      |                    |                   | ✓                 | 8.50"(216)            | 20.71"(526) | 6.00"(152) |
| RPTC2010-30  | 30                       |                    |                   | ✓                 | 5.00"(127)            | 12.15"(309) | 3.25"(83)  |
| RPTC2011-100 | 100                      |                    |                   | ✓                 | 8.50"(216)            | 19.97"(507) | 6.00"(152) |
| RPTC2012-60  | 60                       |                    |                   | ✓                 | 8.50"(216)            | 20.71"(526) | 6.00"(152) |

## RPTC MECHANICAL OUTLINES (MM)

### STUDS RPTC2001/RPTC2004/RPTC2012



### STUDS RPTC2002/RPTC2003/RPTC2010/RPTC2011



# RPTC

## TEMPEST/COTS AC 3-PHASE **WYE** EMI POWER LINE FILTER

| SERIES                            | (A)             | B               | C              | D               | E               | F               | G             | H             | I              | J              | K             | L                        | M                      | N                     | O              | P               | Q             | R             |
|-----------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|----------------|---------------|--------------------------|------------------------|-----------------------|----------------|-----------------|---------------|---------------|
| <b>STUDS</b><br><b>(RPTC2001)</b> | 31.25"<br>(794) | 14.00"<br>(356) | 8.00"<br>(203) | 13.00"<br>(330) | 28.00"<br>(711) | 12.00"<br>(305) | 2.80"<br>(71) | 1.88"<br>(48) | 4.60"<br>(117) | 4.00"<br>(102) | 0.50"<br>(13) | 0.20"<br>(5)             | 1/2-13<br>STUD, 8x     | INSERT,<br>10-32, 20x | 4.66"<br>(118) | 18.66"<br>(474) | 0.50"<br>(13) | N/A           |
| <b>STUDS</b><br><b>(RPTC2002)</b> | 9.81"<br>(249)  | 4.50"<br>(114)  | 2.00"<br>(51)  | 4.00"<br>(102)  | 8.00"<br>(203)  | 3.50"<br>(89)   | 1.50"<br>(38) | 1.00"<br>(25) | 1.00"<br>(25)  | 1.00"<br>(25)  | 0.40"<br>(10) | Ø0.20", 6x<br>(Ø5.2, 6x) | STUD,<br>10-32,<br>4x  | INSERT,<br>8-32, 12x  | 1.60"<br>(41)  | 4.80"<br>(122)  | 0.25"<br>(6)  | 0.40"<br>(10) |
| <b>STUDS</b><br><b>(RPTC2003)</b> | 12.16"<br>(309) | 5.00"<br>(127)  | 3.25"<br>(83)  | 4.50"<br>(114)  | 10.00"<br>(254) | 4.00"<br>(102)  | 1.61"<br>(41) | 1.20"<br>(30) | 1.20"<br>(30)  | 1.63"<br>(41)  | 0.40"<br>(10) | Ø0.24", 6x<br>(Ø6.2, 6x) | STUD,<br>1/4-20,<br>4x | INSERTS,<br>8-32, 16x | 1.60"<br>(41)  | 6.80"<br>(173)  | 0.25"<br>(6)  | N/A           |
| <b>STUDS</b><br><b>(RPTC2004)</b> | 20.71"<br>(526) | 8.50"<br>(216)  | 6.00"<br>(152) | 3.81"<br>(97)   | 18.00"<br>(457) | 7.00"<br>(178)  | 1.46"<br>(37) | 1.30"<br>(33) | 3.00"<br>(76)  | 3.00"<br>(76)  | 0.50"<br>(13) | Ø0.24", 6x<br>(Ø6.2, 6x) | 1/2-13<br>STUD, 8x     | INSERT,<br>10-32, 20x | 3.00"<br>(76)  | 12.00"<br>(305) | 0.38"<br>(10) | N/A           |
| <b>STUDS</b><br><b>(RPTC2010)</b> | 12.15"<br>(309) | 5.00"<br>(127)  | 3.25"<br>(83)  | 4.50"<br>(114)  | 10.00"<br>(254) | 4.00"<br>(102)  | 1.61"<br>(41) | 1.20"<br>(30) | 1.20"<br>(30)  | 1.63"<br>(41)  | 0.40"<br>(10) | Ø0.24", 6x<br>(Ø6.2, 6x) | STUD,<br>1/4-20,<br>4x | INSERTS,<br>8-32, 16x | 1.60"<br>(41)  | 6.80"<br>(173)  | 0.25"<br>(6)  | N/A           |
| <b>STUDS</b><br><b>(RPTC2011)</b> | 19.97"<br>(507) | 8.50"<br>(216)  | 6.00"<br>(152) | 7.75"<br>(197)  | 18.00"<br>(457) | 7.00"<br>(178)  | 1.46"<br>(37) | 2.76"<br>(70) | 2.76"<br>(70)  | 3.00"<br>(76)  | 0.50"<br>(13) | Ø0.24", 6x<br>(Ø6.2, 6x) | STUD,<br>1/4-20,<br>4x | INSERTS,<br>8-32, 16x | 3.00"<br>(76)  | 12.00"<br>(305) | 0.38"<br>(10) | N/A           |
| <b>STUDS</b><br><b>(RPTC2012)</b> | 20.71"<br>(526) | 8.50"<br>(216)  | 6.00"<br>(152) | 3.81"<br>(97)   | 18.00"<br>(457) | 7.00"<br>(178)  | 1.46"<br>(37) | 1.30"<br>(33) | 3.00"<br>(76)  | 3.00"<br>(76)  | 0.50"<br>(13) | Ø0.24", 6x<br>(Ø6.2, 6x) | 1/2-13<br>STUD, 8x     | INSERT,<br>10-32, 20x | 3.00"<br>(76)  | 12.00"<br>(305) | 0.38"<br>(10) | N/A           |

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

### CONTACT FACTORY FOR TYPICAL INSERTION LOSS, dB (50/50 Ohm)

# Mouser Electronics

Authorized Distributor

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