

P.R.C.P. series are resettable overcurrent protective devices made of Polymer PTC (Positive Temperature coefficient) thermistor. Tripped devices are repeatedly used once the fault of the overcurrent is removed.

## FEATURES

- Quick rising edge at Trip point
- RoHS compliant
- Agency recognition (C-US UL, TÜV)

## APPLICATIONS

- Motors
- Inverters
- IEEE1394
- USB, Peripheral devices
- Digital cameras
- Printers
- Switching power supply
- Personal computers
- Telecommunication
- Fire alarm systems
- Measurement equipment

## PART NUMBER DESIGNATION

**P R C P - M S M F 0 7 5 / 2 4 X - 2 E - 9 9**

Product name

Product number

Hold current (I hold)

Higher voltage option

Blank : Standard  
 6 : 6 volt rated 12 : 12 volt rated 16 : 16 volt rated  
 24 : 24 volt rated 30 : 30 volt rated 33 : 33 volt rated  
 60 : 30 volt rated 72 : 72 volt rated 240 : 240 volt rated

Product shape

Packaging option

0 : Bulk packaging (Radial Leaded Type only)  
 2 : Tape and Reel

Halogen free

Blank C or E : Halogen free

Reference number for RoHS compliant

SM series  
 R series  
 (No description for other series)

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ELECTRICAL CHARACTERISTICS

#### Surface Mount Type

● PRCP-SM series (7555 mm / 2920 mils, 8763 mm / 3425 mils)

| Model         | V max (V) | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Resistance   |        |
|---------------|-----------|-----------|-------------------|-------------------|--------------|--------|
|               |           |           | (A) at 23 °C      |                   | (W) at 23 °C |        |
|               |           |           |                   |                   | R min        | R1 max |
| PRCP-SM030    | 60        | 40        | 0.30              | 0.60              | 0.90         | 4.80   |
| PRCP-SM050    | 60        | 40        | 0.50              | 1.00              | 0.35         | 1.40   |
| PRCP-SM075    | 30        | 80        | 0.75              | 1.50              | 0.23         | 1.00   |
| PRCP-SM100    | 30        | 80        | 1.10              | 2.20              | 0.12         | 0.48   |
| PRCP-SM100/33 | 33        | 40        | 1.10              | 2.20              | 0.12         | 0.41   |
| PRCP-SM125    | 15        | 100       | 1.25              | 2.50              | 0.07         | 0.25   |
| PRCP-SM150    | 15        | 100       | 1.50              | 3.00              | 0.06         | 0.25   |
| PRCP-SM150/33 | 33        | 40        | 1.50              | 3.00              | 0.06         | 0.23   |
| PRCP-SM185/33 | 33        | 40        | 1.80              | 3.60              | 0.040        | 0.150  |
| PRCP-SM200    | 15        | 100       | 2.00              | 4.00              | 0.045        | 0.125  |
| PRCP-SM250    | 15        | 100       | 2.50              | 5.00              | 0.024        | 0.085  |
| PRCP-SM260    | 6         | 100       | 2.60              | 5.20              | 0.025        | 0.075  |

● PRCP-SMDF series (5050 mm / 2018 mils)

|              |    |    |      |      |       |     |
|--------------|----|----|------|------|-------|-----|
| PRCP-SMDF050 | 60 | 10 | 0.55 | 1.20 | 0.200 | 1.0 |
|--------------|----|----|------|------|-------|-----|

● PRCP-MSMF series (4532 mm / 1812 mils)

|                  |      |     |      |      |       |       |
|------------------|------|-----|------|------|-------|-------|
| PRCP-MSMF010     | 60.0 | 40  | 0.10 | 0.30 | 0.70  | 15.00 |
| PRCP-MSMF014     | 60.0 | 40  | 0.14 | 0.34 | 0.40  | 6.50  |
| PRCP-MSMF020     | 30.0 | 80  | 0.20 | 0.40 | 0.40  | 6.00  |
| PRCP-MSMF020/60  | 60.0 | 40  | 0.20 | 0.40 | 0.40  | 6.00  |
| PRCP-MSMF030     | 30.0 | 10  | 0.30 | 0.60 | 0.30  | 3.00  |
| PRCP-MSMF050     | 15.0 | 100 | 0.50 | 1.00 | 0.15  | 1.00  |
| PRCP-MSMF075     | 13.2 | 100 | 0.75 | 1.50 | 0.11  | 0.45  |
| PRCP-MSMF075/24  | 24.0 | 40  | 0.75 | 1.50 | 0.11  | 0.45  |
| PRCP-MSMF110     | 6.0  | 100 | 1.10 | 2.20 | 0.04  | 0.21  |
| PRCP-MSMF110/16  | 16.0 | 100 | 1.10 | 2.20 | 0.04  | 0.21  |
| PRCP-MSMF110/24X | 24.0 | 20  | 1.10 | 2.20 | 0.06  | 0.18  |
| PRCP-MSMF125     | 6.0  | 100 | 1.25 | 2.50 | 0.05  | 0.14  |
| PRCP-MSMF150     | 6.0  | 100 | 1.50 | 3.00 | 0.03  | 0.120 |
| PRCP-MSMF150/24X | 24.0 | 20  | 1.50 | 3.00 | 0.03  | 0.120 |
| PRCP-MSMF160     | 8.0  | 100 | 1.60 | 2.80 | 0.035 | 0.099 |
| PRCP-MSMF200     | 8.0  | 40  | 2.00 | 4.00 | 0.020 | 0.080 |
| PRCP-MSMF250/16X | 16.0 | 100 | 2.50 | 5.00 | 0.015 | 0.100 |
| PRCP-MSMF260     | 6.0  | 100 | 2.60 | 5.20 | 0.015 | 0.080 |

● PRCP-USMF series (3225 mm / 1210 mils)

|              |      |    |      |      |       |        |
|--------------|------|----|------|------|-------|--------|
| PRCP-USMF005 | 30   | 10 | 0.05 | 0.15 | 2.800 | 50.000 |
| PRCP-USMF010 | 30   | 10 | 0.10 | 0.30 | 0.800 | 15.000 |
| PRCP-USMF020 | 30   | 10 | 0.20 | 0.40 | 0.400 | 5.000  |
| PRCP-USMF035 | 6    | 40 | 0.35 | 0.75 | 0.200 | 1.300  |
| PRCP-USMF050 | 13.2 | 40 | 0.50 | 1.00 | 0.180 | 0.900  |
| PRCP-USMF075 | 6    | 40 | 0.75 | 1.50 | 0.070 | 0.450  |
| PRCP-USMF110 | 6    | 40 | 1.10 | 2.20 | 0.050 | 0.210  |
| PRCP-USMF150 | 6    | 40 | 1.50 | 3.00 | 0.030 | 0.110  |

● PRCP-NSMF series (3216 mm / 1206 mils)

|                  |      |     |      |      |      |       |
|------------------|------|-----|------|------|------|-------|
| PRCP-NSMF012     | 30.0 | 10  | 0.12 | 0.29 | 1.35 | 8.50  |
| PRCP-NSMF020     | 24.0 | 10  | 0.20 | 0.46 | 0.60 | 2.60  |
| PRCP-NSMF020/30X | 30.0 | 60  | 0.20 | 0.40 | 0.60 | 3.30  |
| PRCP-NSMF035     | 6.0  | 100 | 0.35 | 0.75 | 0.30 | 1.20  |
| PRCP-NSMF035/16X | 16.0 | 20  | 0.35 | 0.75 | 0.30 | 1.40  |
| PRCP-NSMF050     | 13.2 | 100 | 0.50 | 1.00 | 0.15 | 0.70  |
| PRCP-NSMF075     | 6.0  | 100 | 0.75 | 1.50 | 0.10 | 0.40  |
| PRCP-NSMF110     | 6.0  | 100 | 1.10 | 2.20 | 0.06 | 0.20  |
| PRCP-NSMF150     | 6.0  | 100 | 1.50 | 3.00 | 0.03 | 0.13  |
| PRCP-NSMF200     | 6.0  | 100 | 2.00 | 4.00 | 0.02 | 0.085 |

● PRCP-PSMF series (2012 mm / 0805 mils)

|               |    |    |      |      |       |       |
|---------------|----|----|------|------|-------|-------|
| PRCP-PSMF010X | 15 | 40 | 0.10 | 0.30 | 1.0   | 7.5   |
| PRCP-PSMF020X | 9  | 40 | 0.20 | 0.50 | 0.65  | 3.5   |
| PRCP-PSMF035X | 6  | 40 | 0.35 | 0.75 | 0.250 | 1.200 |
| PRCP-PSMF050X | 6  | 40 | 0.50 | 1.00 | 0.150 | 0.900 |
| PRCP-PSMF075X | 6  | 40 | 0.75 | 1.50 | 0.090 | 0.350 |
| PRCP-PSMF110X | 6  | 40 | 1.10 | 2.20 | 0.060 | 0.210 |

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ELECTRICAL CHARACTERISTICS

#### Surface Mount Type

- PRCP-ASML/X series (1005mm /0402 mils)



| Model          | V max (V) | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance |        |
|----------------|-----------|-----------|-------------------|-------------------|--------------------|--------|
|                |           |           | (A) at 23 °C      |                   | (Ω) at 23 °C       |        |
|                |           |           |                   |                   | R min              | R1 max |
| PRCP-ASML010/6 | 6         | 50        | 0.10              | 0.3               | 0.15               | 3.0    |
| PRCP-ASML020/6 | 6         | 50        | 0.20              | 0.5               | 0.10               | 1.6    |
| PRCP-ASML035/6 | 6         | 50        | 0.35              | 0.7               | 0.05               | 0.85   |
| PRCP-ASML050/6 | 6         | 50        | 0.50              | 1.0               | 0.04               | 0.50   |

- PRCP-NSML/X series (3216mm /1206 mils)



| Model           | V max (V) | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance |        |
|-----------------|-----------|-----------|-------------------|-------------------|--------------------|--------|
|                 |           |           | (A) at 23 °C      |                   | (Ω) at 23 °C       |        |
|                 |           |           |                   |                   | R min              | R1 max |
| PRCP-NSML150/6  | 6         | 50        | 1.5               | 3.0               | 0.01               | 0.065  |
| PRCP-NSML150/12 | 12        | 50        | 1.5               | 3.0               | 0.01               | 0.065  |
| PRCP-NSML175/6  | 6         | 50        | 1.75              | 3.5               | 0.006              | 0.05   |
| PRCP-NSML175/12 | 12        | 50        | 1.75              | 3.5               | 0.006              | 0.05   |
| PRCP-NSML200/6  | 6         | 50        | 2.0               | 4.0               | 0.005              | 0.04   |
| PRCP-NSML200/12 | 12        | 50        | 2.0               | 4.0               | 0.005              | 0.04   |
| PRCP-NSML260/6  | 6         | 50        | 2.6               | 5.2               | 0.004              | 0.03   |
| PRCP-NSML260/12 | 12        | 50        | 2.6               | 5.2               | 0.004              | 0.03   |
| PRCP-NSML300/6  | 6         | 50        | 3.0               | 6.0               | 0.003              | 0.024  |
| PRCP-NSML300/12 | 12        | 50        | 3.0               | 6.0               | 0.003              | 0.024  |
| PRCP-NSML350/6  | 6         | 50        | 3.5               | 7.0               | 0.002              | 0.022  |
| PRCP-NSML350/12 | 12        | 50        | 3.5               | 7.0               | 0.002              | 0.022  |
| PRCP-NSML380/6  | 6         | 50        | 3.8               | 7.6               | 0.002              | 0.02   |
| PRCP-NSML380/12 | 12        | 50        | 3.8               | 7.6               | 0.002              | 0.02   |
| PRCP-NSML400/6  | 6         | 50        | 4.0               | 8.0               | 0.002              | 0.018  |
| PRCP-NSML400/12 | 12        | 50        | 4.0               | 8.0               | 0.002              | 0.018  |
| PRCP-NSML450/6  | 6         | 50        | 4.5               | 9.0               | 0.002              | 0.014  |
| PRCP-NSML450/12 | 12        | 50        | 4.5               | 9.0               | 0.002              | 0.014  |
| PRCP-NSML500/6  | 6         | 50        | 5.0               | 10                | 0.002              | 0.011  |
| PRCP-NSML550/6  | 6         | 50        | 5.5               | 11                | 0.002              | 0.01   |
| PRCP-NSML600/6  | 6         | 50        | 6.0               | 12                | 0.002              | 0.009  |

## ELECTRICAL CHARACTERISTICS

### Radial Ledged Type

#### ● PRCP-R series

| Model         | V max (V) | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance |       | 1 Hour (R1) Post-Trip Resistance (Ω) |
|---------------|-----------|-----------|-------------------|-------------------|--------------------|-------|--------------------------------------|
|               |           |           | (A) at 23 °C      |                   | (Ω) at 23 °C       |       |                                      |
|               |           |           |                   |                   | R min              | R max |                                      |
| PRCP-R005     | 60        | 40        | 0.05              | 0.10              | 7.3                | 11.1  | 22.0                                 |
| PRCP-R010     | 60        | 40        | 0.10              | 0.20              | 2.50               | 4.50  | 7.50                                 |
| PRCP-R017     | 60        | 40        | 0.17              | 0.34              | 2.00               | 3.20  | 8.00                                 |
| PRCP-R020     | 60        | 40        | 0.20              | 0.40              | 1.50               | 2.84  | 4.40                                 |
| PRCP-R025     | 60        | 40        | 0.25              | 0.50              | 1.00               | 1.95  | 3.00                                 |
| PRCP-R030     | 60        | 40        | 0.30              | 0.60              | 0.76               | 1.36  | 2.10                                 |
| PRCP-R040     | 60        | 40        | 0.40              | 0.80              | 0.52               | 0.86  | 1.29                                 |
| PRCP-R050     | 60        | 40        | 0.50              | 1.00              | 0.41               | 0.77  | 1.17                                 |
| PRCP-R065     | 60        | 40        | 0.65              | 1.30              | 0.27               | 0.48  | 0.72                                 |
| PRCP-R075     | 60        | 40        | 0.75              | 1.50              | 0.18               | 0.40  | 0.60                                 |
| PRCP-R090     | 60        | 40        | 0.90              | 1.80              | 0.14               | 0.31  | 0.47                                 |
| PRCP-R090*-9  | 30        | 40        | 0.90              | 1.80              | 0.07               | 0.12  | 0.22                                 |
| PRCP-R110     | 30        | 40        | 1.10              | 2.20              | 0.10               | 0.18  | 0.27                                 |
| PRCP-R135     | 30        | 40        | 1.35              | 2.70              | 0.065              | 0.115 | 0.17                                 |
| PRCP-R160     | 30        | 40        | 1.60              | 3.20              | 0.055              | 0.105 | 0.15                                 |
| PRCP-R185     | 30        | 40        | 1.85              | 3.70              | 0.040              | 0.07  | 0.11                                 |
| PRCP-R250     | 30        | 40        | 2.50              | 5.00              | 0.025              | 0.048 | 0.07                                 |
| PRCP-R250*-10 | 30        | 40        | 2.50              | 5.00              | 0.025              | 0.048 | 0.07                                 |
| PRCP-R300     | 30        | 40        | 3.00              | 6.00              | 0.020              | 0.05  | 0.08                                 |
| PRCP-R400     | 30        | 40        | 4.00              | 8.00              | 0.010              | 0.03  | 0.05                                 |
| PRCP-R500     | 30        | 40        | 5.00              | 10.00             | 0.010              | 0.03  | 0.05                                 |
| PRCP-R600     | 30        | 40        | 6.00              | 12.00             | 0.005              | 0.02  | 0.04                                 |
| PRCP-R700     | 30        | 40        | 7.00              | 14.00             | 0.005              | 0.02  | 0.03                                 |
| PRCP-R800     | 30        | 40        | 8.00              | 16.00             | 0.005              | 0.02  | 0.03                                 |
| PRCP-R900     | 30        | 40        | 9.00              | 18.00             | 0.005              | 0.01  | 0.02                                 |
| PRCP-R1100    | 16        | 100       | 11.00             | 22.00             | 0.003              | 0.01  | 0.014                                |

\* Packaging option : -0 = Bulk package, -2 = Tape and Reel

#### ● PRCP-RG series

|            |    |     |      |      |       |       |        |
|------------|----|-----|------|------|-------|-------|--------|
| PRCP-RG300 | 16 | 100 | 3.00 | 5.10 | 0.038 | 0.065 | 0.0975 |
| PRCP-RG500 | 16 | 100 | 5.00 | 8.50 | 0.015 | 0.023 | 0.034  |

#### ● PRCP-RX/72 series (High voltage type 72 V)

|               |    |    |      |      |      |      |      |
|---------------|----|----|------|------|------|------|------|
| PRCP-RX020/72 | 72 | 40 | 0.20 | 0.40 | 1.50 | 2.84 | 4.40 |
| PRCP-RX025/72 | 72 | 40 | 0.25 | 0.50 | 1.00 | 1.95 | 3.00 |
| PRCP-RX030/72 | 72 | 40 | 0.30 | 0.60 | 0.76 | 1.36 | 2.10 |
| PRCP-RX040/72 | 72 | 40 | 0.40 | 0.80 | 0.52 | 0.86 | 1.29 |
| PRCP-RX050/72 | 72 | 40 | 0.50 | 1.00 | 0.41 | 0.77 | 1.17 |
| PRCP-RX065/72 | 72 | 40 | 0.65 | 1.30 | 0.27 | 0.48 | 0.72 |
| PRCP-RX075/72 | 72 | 40 | 0.75 | 1.50 | 0.18 | 0.40 | 0.60 |
| PRCP-RX090/72 | 72 | 40 | 0.90 | 1.80 | 0.14 | 0.31 | 0.47 |
| PRCP-RX110/72 | 72 | 40 | 1.10 | 2.20 | 0.15 | 0.25 | 0.38 |
| PRCP-RX135/72 | 72 | 40 | 1.35 | 2.70 | 0.12 | 0.19 | 0.30 |
| PRCP-RX160/72 | 72 | 40 | 1.60 | 3.20 | 0.09 | 0.14 | 0.22 |
| PRCP-RX185/72 | 72 | 40 | 1.85 | 3.70 | 0.08 | 0.12 | 0.19 |
| PRCP-RX250/72 | 72 | 40 | 2.50 | 5.00 | 0.05 | 0.08 | 0.13 |
| PRCP-RX300/72 | 72 | 40 | 3.00 | 6.00 | 0.04 | 0.06 | 0.10 |
| PRCP-RX375/72 | 72 | 40 | 3.75 | 7.50 | 0.03 | 0.05 | 0.08 |

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ELECTRICAL CHARACTERISTICS

#### Radial Ledged Type

- PRCP- RHT series (Operating Temperature – 40°C~125°C)

| Model        | V max (V) | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance |        |
|--------------|-----------|-----------|-------------------|-------------------|--------------------|--------|
|              |           |           | (A) at 23 °C      |                   | (Ω) at 23 °C       |        |
|              |           |           | Hold              | Trip              | R min              | R1 max |
| PRCP-RHT070  | 16        | 40        | 0.7               | 1.4               | 0.3                | 0.8    |
| PRCP-RHT200  | 16        | 100       | 2.0               | 3.8               | 0.045              | 0.110  |
| PRCP-RHT450  | 16        | 100       | 4.5               | 7.8               | 0.022              | 0.054  |
| PRCP-RHT650  | 16        | 100       | 6.5               | 12.0              | 0.011              | 0.026  |
| PRCP-RHT750  | 16        | 100       | 7.5               | 13.1              | 0.0094             | 0.022  |
| PRCP-RHT1300 | 16        | 100       | 13.0              | 24.0              | 0.0041             | 0.010  |

- PRCP-RM series (High voltage type 240 V)

| Model          | V max (V ac) |           | I max (A) | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance | 1 Hour (R1) Post-Trip Resistance (Ω) |
|----------------|--------------|-----------|-----------|-------------------|-------------------|--------------------|--------------------------------------|
|                | Operating    | Interrupt |           | (A) at 23 °C      |                   | (Ω) at 23 °C       | (Ω) at 23 °C                         |
|                |              |           | Interrupt | I hold            | I trip            | R min              | R1 max                               |
| PRCP-RM005/240 | 240          | 265       | 1.0       | 0.05              | 0.12              | 18.500             | 65.000                               |
| PRCP-RM008/240 | 240          | 265       | 1.2       | 0.08              | 0.19              | 7.400              | 26.000                               |
| PRCP-RM012/240 | 240          | 265       | 1.2       | 0.12              | 0.30              | 3.000              | 12.000                               |
| PRCP-RM016/240 | 240          | 265       | 2.0       | 0.16              | 0.37              | 2.500              | 7.800                                |
| PRCP-RM025/240 | 240          | 265       | 3.5       | 0.25              | 0.56              | 1.300              | 3.800                                |
| PRCP-RM033/240 | 240          | 265       | 4.5       | 0.33              | 0.74              | 0.770              | 2.600                                |
| PRCP-RM040/240 | 240          | 265       | 5.5       | 0.40              | 0.90              | 0.600              | 1.900                                |
| PRCP-RM055/240 | 240          | 265       | 7.0       | 0.55              | 1.25              | 0.450              | 1.450                                |

## ■ THERMAL DERATING CHART

### Surface Mount Type

#### ● PRCP-SM series ( I hold(A))

| Model         | Ambient operating temperature |         |      |       |       |       |       |       |       |
|---------------|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|
|               | - 40 °C                       | - 20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| PRCP-SM030    | 0.45                          | 0.40    | 0.35 | 0.30  | 0.25  | 0.23  | 0.20  | 0.17  | 0.14  |
| PRCP-SM050    | 0.76                          | 0.67    | 0.59 | 0.50  | 0.42  | 0.38  | 0.33  | 0.29  | 0.23  |
| PRCP-SM075    | 1.11                          | 0.99    | 0.84 | 0.75  | 0.63  | 0.57  | 0.49  | 0.45  | 0.36  |
| PRCP-SM100    | 1.66                          | 1.47    | 1.29 | 1.10  | 0.91  | 0.83  | 0.73  | 0.64  | 0.50  |
| PRCP-SM100/33 | 1.66                          | 1.47    | 1.29 | 1.10  | 0.91  | 0.83  | 0.73  | 0.64  | 0.50  |
| PRCP-SM125    | 1.89                          | 1.68    | 1.46 | 1.25  | 1.04  | 0.94  | 0.83  | 0.73  | 0.56  |
| PRCP-SM150    | 2.27                          | 2.01    | 1.76 | 1.50  | 1.25  | 1.13  | 0.99  | 0.87  | 0.68  |
| PRCP-SM150/33 | 2.27                          | 2.01    | 1.76 | 1.50  | 1.25  | 1.13  | 0.99  | 0.87  | 0.68  |
| PRCP-SM185/33 | 2.56                          | 2.32    | 2.08 | 1.85  | 1.60  | 1.44  | 1.28  | 1.12  | 0.88  |
| PRCP-SM200    | 3.02                          | 2.68    | 2.34 | 2.00  | 1.66  | 1.50  | 1.32  | 1.16  | 0.90  |
| PRCP-SM250    | 3.78                          | 3.35    | 2.93 | 2.50  | 2.08  | 1.88  | 1.65  | 1.45  | 1.13  |
| PRCP-SM260    | 3.64                          | 3.25    | 2.91 | 2.60  | 2.26  | 2.08  | 1.95  | 1.74  | 1.48  |

#### ● PRCP-SMDF series ( I hold(A))

|              |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|
| PRCP-SMDF050 | 0.87 | 0.77 | 0.67 | 0.55 | 0.46 | 0.41 | 0.36 | 0.31 | 0.23 |
|--------------|------|------|------|------|------|------|------|------|------|

#### ● PRCP-MSMF series ( I hold(A))

|                  |      |      |      |      |      |      |      |      |      |
|------------------|------|------|------|------|------|------|------|------|------|
| PRCP-MSMF010     | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| PRCP-MSMF014     | 0.23 | 0.20 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| PRCP-MSMF020     | 0.30 | 0.27 | 0.23 | 0.20 | 0.17 | 0.15 | 0.13 | 0.12 | 0.09 |
| PRCP-MSMF020/60  | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.13 | 0.11 | 0.08 |
| PRCP-MSMF030     | 0.46 | 0.40 | 0.36 | 0.30 | 0.26 | 0.22 | 0.20 | 0.11 | 0.14 |
| PRCP-MSMF050     | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| PRCP-MSMF075     | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| PRCP-MSMF075/24  | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| PRCP-MSMF110     | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| PRCP-MSMF110/16  | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| PRCP-MSMF110/24X | 2.00 | 1.70 | 1.40 | 1.10 | 0.95 | 0.88 | 0.80 | 0.73 | 0.61 |
| PRCP-MSMF125     | 2.00 | 1.69 | 1.47 | 1.25 | 1.03 | 0.92 | 0.90 | 0.69 | 0.53 |
| PRCP-MSMF150     | 2.17 | 1.95 | 1.72 | 1.50 | 1.30 | 1.18 | 1.09 | 0.97 | 0.82 |
| PRCP-MSMF150/24X | 2.10 | 1.90 | 1.70 | 1.50 | 1.25 | 1.13 | 1.00 | 0.88 | 0.69 |
| PRCP-MSMF160     | 2.30 | 2.20 | 1.90 | 1.60 | 1.45 | 1.30 | 1.15 | 1.03 | 0.91 |
| PRCP-MSMF200     | 3.08 | 2.71 | 2.35 | 2.00 | 1.80 | 1.60 | 1.50 | 1.40 | 1.25 |
| PRCP-MSMF250/16X | 3.90 | 3.42 | 2.96 | 2.50 | 2.24 | 1.98 | 1.85 | 1.29 | 0.94 |
| PRCP-MSMF260     | 3.40 | 3.16 | 2.90 | 2.60 | 2.32 | 2.18 | 2.00 | 1.90 | 1.69 |

#### ● PRCP-USMF series ( I hold(A))

|              |      |      |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|------|------|
| PRCP-USMF005 | 0.08 | 0.07 | 0.06 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 |
| PRCP-USMF010 | 0.15 | 0.13 | 0.12 | 0.10 | 0.09 | 0.08 | 0.07 | 0.06 | 0.05 |
| PRCP-USMF020 | 0.32 | 0.28 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 |
| PRCP-USMF035 | 0.51 | 0.46 | 0.40 | 0.35 | 0.30 | 0.27 | 0.24 | 0.22 | 0.18 |
| PRCP-USMF050 | 0.76 | 0.66 | 0.58 | 0.50 | 0.42 | 0.38 | 0.35 | 0.29 | 0.26 |
| PRCP-USMF075 | 1.10 | 0.97 | 0.86 | 0.75 | 0.64 | 0.58 | 0.55 | 0.47 | 0.39 |
| PRCP-USMF110 | 1.60 | 1.42 | 1.26 | 1.10 | 0.94 | 0.86 | 0.80 | 0.70 | 0.58 |
| PRCP-USMF150 | 2.30 | 2.02 | 1.76 | 1.50 | 1.24 | 1.11 | 1.00 | 0.85 | 0.65 |

#### ● PRCP-NSMF series ( I hold(A))

|                  |      |      |      |      |       |      |      |      |      |
|------------------|------|------|------|------|-------|------|------|------|------|
| PRCP-NSMF012     | 0.19 | 0.17 | 0.15 | 0.12 | 0.11/ | 0.10 | 0.09 | 0.08 | 0.07 |
| PRCP-NSMF020     | 0.30 | 0.27 | 0.24 | 0.20 | 0.18  | 0.16 | 0.14 | 0.12 | 0.11 |
| PRCP-NSMF020/30X | 0.30 | 0.27 | 0.24 | 0.20 | 0.18  | 0.16 | 0.14 | 0.12 | 0.10 |
| PRCP-NSMF035     | 0.51 | 0.46 | 0.40 | 0.35 | 0.30  | 0.27 | 0.24 | 0.22 | 0.18 |
| PRCP-NSMF035/16X | 0.51 | 0.46 | 0.40 | 0.35 | 0.30  | 0.27 | 0.24 | 0.22 | 0.18 |
| PRCP-NSMF050     | 0.76 | 0.68 | 0.59 | 0.50 | 0.44  | 0.40 | 0.35 | 0.32 | 0.26 |
| PRCP-NSMF075     | 1.11 | 1.00 | 0.85 | 0.75 | 0.67  | 0.61 | 0.52 | 0.50 | 0.42 |
| PRCP-NSMF110     | 1.64 | 1.46 | 1.30 | 1.10 | 0.92  | 0.83 | 0.80 | 0.65 | 0.52 |
| PRCP-NSMF150     | 2.20 | 1.99 | 1.77 | 1.50 | 1.34  | 1.23 | 1.10 | 1.01 | 0.84 |
| PRCP-NSMF200     | 2.88 | 2.61 | 2.28 | 2.00 | 1.80  | 1.66 | 1.51 | 1.39 | 1.19 |

#### ● PRCP-PSMF series ( I hold(A))

|               |      |      |      |      |      |      |      |      |      |
|---------------|------|------|------|------|------|------|------|------|------|
| PRCP-PSMF010X | 0.15 | 0.13 | 0.12 | 0.10 | 0.09 | 0.08 | 0.07 | 0.06 | 0.05 |
| PRCP-PSMF020X | 0.28 | 0.25 | 0.23 | 0.20 | 0.17 | 0.14 | 0.12 | 0.10 | 0.07 |
| PRCP-PSMF035X | 0.47 | 0.44 | 0.39 | 0.35 | 0.30 | 0.27 | 0.24 | 0.20 | 0.14 |
| PRCP-PSMF050X | 0.68 | 0.62 | 0.55 | 0.50 | 0.40 | 0.37 | 0.33 | 0.29 | 0.23 |
| PRCP-PSMF075X | 1.00 | 0.90 | 0.79 | 0.75 | 0.63 | 0.57 | 0.53 | 0.42 | 0.35 |
| PRCP-PSMF110X | 1.45 | 1.35 | 1.20 | 1.10 | 0.92 | 0.84 | 0.75 | 0.65 | 0.52 |

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ■ THERMAL DERATING CHART

#### Surface Mount Type

##### ● PRCP-ASML/X series ( $I_{hold}$ (A))



| Model          | Ambient operating temperature |         |      |       |       |       |       |       |       |
|----------------|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|
|                | - 40 °C                       | - 20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| PRCP-ASML010/6 | 0.16                          | 0.14    | 0.12 | 0.10  | 0.08  | 0.07  | 0.06  | 0.05  | 0.04  |
| PRCP-ASML020/6 | 0.32                          | 0.28    | 0.24 | 0.20  | 0.16  | 0.14  | 0.12  | 0.10  | 0.08  |
| PRCP-ASML035/6 | 0.56                          | 0.49    | 0.42 | 0.35  | 0.28  | 0.24  | 0.21  | 0.17  | 0.14  |
| PRCP-ASML050/6 | 0.80                          | 0.70    | 0.60 | 0.50  | 0.40  | 0.35  | 0.30  | 0.25  | 0.20  |

##### ● PRCP-NSML/X series ( $I_{hold}$ (A))



| Model           | Ambient operating temperature |         |      |       |       |       |       |       |       |
|-----------------|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|
|                 | - 40 °C                       | - 20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| PRCP-NSML150/6  | 2.2                           | 2.0     | 1.77 | 1.5   | 1.28  | 1.15  | 1.07  | 0.85  | 0.7   |
| PRCP-NSML150/12 | 2.2                           | 2.0     | 1.77 | 1.5   | 1.28  | 1.15  | 1.07  | 0.85  | 0.7   |
| PRCP-NSML175/6  | 2.57                          | 2.33    | 2.07 | 1.75  | 1.49  | 1.34  | 1.24  | 1.0   | 0.8   |
| PRCP-NSML175/12 | 2.57                          | 2.33    | 2.07 | 1.75  | 1.49  | 1.34  | 1.24  | 1.0   | 0.8   |
| PRCP-NSML200/6  | 2.94                          | 2.65    | 2.35 | 2.0   | 1.7   | 1.53  | 1.42  | 1.14  | 0.93  |
| PRCP-NSML200/12 | 2.94                          | 2.65    | 2.35 | 2.0   | 1.7   | 1.53  | 1.42  | 1.14  | 0.93  |
| PRCP-NSML260/6  | 3.82                          | 3.46    | 3.07 | 2.6   | 2.21  | 1.95  | 1.85  | 1.48  | 1.2   |
| PRCP-NSML260/12 | 3.82                          | 3.46    | 3.07 | 2.6   | 2.21  | 1.95  | 1.85  | 1.48  | 1.2   |
| PRCP-NSML300/6  | 4.41                          | 3.99    | 3.54 | 3.0   | 2.55  | 2.32  | 2.13  | 1.71  | 1.38  |
| PRCP-NSML300/12 | 4.41                          | 3.99    | 3.54 | 3.0   | 2.55  | 2.32  | 2.13  | 1.71  | 1.38  |
| PRCP-NSML350/6  | 5.15                          | 4.66    | 4.13 | 3.5   | 2.98  | 2.71  | 2.49  | 2.0   | 1.65  |
| PRCP-NSML350/12 | 5.15                          | 4.66    | 4.13 | 3.5   | 2.98  | 2.71  | 2.49  | 2.0   | 1.65  |
| PRCP-NSML380/6  | 5.59                          | 5.05    | 4.48 | 3.8   | 3.23  | 2.95  | 2.60  | 2.15  | 1.75  |
| PRCP-NSML380/12 | 5.59                          | 5.05    | 4.48 | 3.8   | 3.23  | 2.95  | 2.60  | 2.15  | 1.75  |
| PRCP-NSML400/6  | 5.8                           | 5.25    | 4.65 | 4.0   | 3.4   | 3.1   | 2.65  | 2.2   | 1.8   |
| PRCP-NSML400/12 | 5.8                           | 5.25    | 4.65 | 4.0   | 3.4   | 3.1   | 2.65  | 2.2   | 1.8   |
| PRCP-NSML450/6  | 6.1                           | 5.4     | 4.7  | 4.5   | 3.6   | 3.15  | 2.7   | 2.25  | 1.85  |
| PRCP-NSML450/12 | 6.1                           | 5.4     | 4.7  | 4.5   | 3.6   | 3.15  | 2.7   | 2.25  | 1.85  |
| PRCP-NSML500/6  | 6.8                           | 6.0     | 5.25 | 5.0   | 4.0   | 3.5   | 3.0   | 2.5   | 1.9   |
| PRCP-NSML550/6  | 7.5                           | 6.6     | 5.8  | 5.5   | 4.4   | 3.85  | 3.3   | 2.75  | 2.1   |
| PRCP-NSML600/6  | 8.15                          | 7.2     | 6.35 | 6.0   | 4.8   | 4.2   | 3.6   | 3.0   | 2.3   |

## ■ THERMAL DERATING CHART

### Radial Ledged Type

#### ● PRCP-R series ( I hold(A))

| Model          | Ambient operating temperature |         |      |       |       |       |       |       |       |
|----------------|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|
|                | - 40 °C                       | - 20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| PRCP-R005      | 0.08                          | 0.07    | 0.06 | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.02  |
| PRCP-R010      | 0.16                          | 0.14    | 0.12 | 0.10  | 0.08  | 0.07  | 0.06  | 0.05  | 0.04  |
| PRCP-R017      | 0.26                          | 0.23    | 0.20 | 0.17  | 0.14  | 0.12  | 0.11  | 0.09  | 0.07  |
| PRCP-R020      | 0.31                          | 0.27    | 0.24 | 0.20  | 0.16  | 0.14  | 0.13  | 0.11  | 0.08  |
| PRCP-R025      | 0.39                          | 0.34    | 0.30 | 0.25  | 0.20  | 0.18  | 0.16  | 0.14  | 0.10  |
| PRCP-R030      | 0.47                          | 0.41    | 0.36 | 0.30  | 0.24  | 0.22  | 0.19  | 0.16  | 0.12  |
| PRCP-R040      | 0.62                          | 0.54    | 0.48 | 0.40  | 0.32  | 0.29  | 0.25  | 0.22  | 0.16  |
| PRCP-R050      | 0.78                          | 0.68    | 0.60 | 0.50  | 0.41  | 0.36  | 0.32  | 0.27  | 0.20  |
| PRCP-R065      | 1.01                          | 0.88    | 0.77 | 0.65  | 0.53  | 0.47  | 0.41  | 0.35  | 0.26  |
| PRCP-R075      | 1.16                          | 1.02    | 0.89 | 0.75  | 0.61  | 0.54  | 0.47  | 0.41  | 0.30  |
| PRCP-R090      | 1.40                          | 1.22    | 1.07 | 0.90  | 0.73  | 0.65  | 0.57  | 0.49  | 0.36  |
| PRCP-R090-*/9  | 1.40                          | 1.22    | 1.07 | 0.90  | 0.73  | 0.65  | 0.57  | 0.49  | 0.36  |
| PRCP-R110      | 1.60                          | 1.43    | 1.27 | 1.10  | 0.91  | 0.85  | 0.75  | 0.67  | 0.57  |
| PRCP-R135      | 1.96                          | 1.76    | 1.55 | 1.35  | 1.12  | 1.04  | 0.92  | 0.82  | 0.70  |
| PRCP-R160      | 2.32                          | 2.08    | 1.84 | 1.60  | 1.33  | 1.23  | 1.09  | 0.98  | 0.83  |
| PRCP-R185      | 2.68                          | 2.41    | 2.13 | 1.85  | 1.54  | 1.42  | 1.26  | 1.13  | 0.96  |
| PRCP-R250      | 3.63                          | 3.25    | 2.88 | 2.50  | 2.08  | 1.93  | 1.70  | 1.53  | 1.30  |
| PRCP-R250-*/10 | 3.63                          | 3.25    | 2.88 | 2.50  | 2.08  | 1.93  | 1.70  | 1.53  | 1.30  |
| PRCP-R300      | 4.35                          | 3.90    | 3.45 | 3.00  | 2.49  | 2.31  | 2.04  | 1.83  | 1.56  |
| PRCP-R400      | 5.80                          | 5.20    | 4.60 | 4.00  | 3.32  | 3.08  | 2.72  | 2.44  | 2.08  |
| PRCP-R500      | 7.25                          | 6.50    | 5.75 | 5.00  | 4.15  | 3.85  | 3.40  | 3.05  | 2.60  |
| PRCP-R600      | 8.70                          | 7.80    | 6.90 | 6.00  | 4.98  | 4.62  | 4.08  | 3.66  | 3.12  |
| PRCP-R700      | 10.1                          | 9.10    | 8.05 | 7.00  | 5.81  | 5.39  | 4.76  | 4.27  | 3.64  |
| PRCP-R800      | 11.6                          | 10.4    | 9.20 | 8.00  | 6.64  | 6.16  | 5.44  | 4.88  | 4.16  |
| PRCP-R900      | 13.0                          | 11.7    | 10.3 | 9.00  | 7.47  | 6.93  | 6.12  | 5.49  | 4.68  |
| PRCP-R1100     | 16.1                          | 14.6    | 13.1 | 11.0  | 9.40  | 8.80  | 7.80  | 6.90  | 5.20  |

#### ● PRCP-RG series ( I hold(A))

|            |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRCP-RG300 | 4.4 | 4.0 | 3.6 | 3.0 | 2.6 | 2.4 | 2.1 | 1.9 | 1.4 |
| PRCP-RG500 | 7.3 | 6.6 | 6.0 | 5.0 | 4.4 | 4.0 | 3.6 | 3.1 | 2.4 |

#### ● PRCP-RX/72 series ( I hold(A))

|               |      |      |      |      |      |      |      |      |      |
|---------------|------|------|------|------|------|------|------|------|------|
| PRCP-RX020/72 | 0.31 | 0.27 | 0.24 | 0.20 | 0.16 | 0.14 | 0.13 | 0.11 | 0.08 |
| PRCP-RX025/72 | 0.39 | 0.34 | 0.30 | 0.25 | 0.20 | 0.18 | 0.16 | 0.14 | 0.10 |
| PRCP-RX030/72 | 0.47 | 0.41 | 0.36 | 0.30 | 0.24 | 0.22 | 0.19 | 0.16 | 0.12 |
| PRCP-RX040/72 | 0.62 | 0.54 | 0.48 | 0.40 | 0.32 | 0.29 | 0.25 | 0.22 | 0.16 |
| PRCP-RX050/72 | 0.78 | 0.68 | 0.60 | 0.50 | 0.41 | 0.36 | 0.32 | 0.27 | 0.20 |
| PRCP-RX065/72 | 1.01 | 0.88 | 0.77 | 0.65 | 0.53 | 0.47 | 0.41 | 0.35 | 0.26 |
| PRCP-RX075/72 | 1.16 | 1.02 | 0.89 | 0.75 | 0.61 | 0.54 | 0.47 | 0.41 | 0.30 |
| PRCP-RX090/72 | 1.40 | 1.22 | 1.07 | 0.90 | 0.73 | 0.65 | 0.57 | 0.49 | 0.36 |
| PRCP-RX110/72 | 1.71 | 1.50 | 1.31 | 1.10 | 0.89 | 0.79 | 0.69 | 0.59 | 0.44 |
| PRCP-RX135/72 | 2.09 | 1.84 | 1.61 | 1.35 | 1.09 | 0.97 | 0.85 | 0.73 | 0.54 |
| PRCP-RX160/72 | 2.48 | 2.18 | 1.90 | 1.60 | 1.30 | 1.15 | 1.01 | 0.86 | 0.64 |
| PRCP-RX185/72 | 2.87 | 2.52 | 2.20 | 1.85 | 1.50 | 1.33 | 1.17 | 1.00 | 0.74 |
| PRCP-RX250/72 | 3.88 | 3.40 | 2.98 | 2.50 | 2.03 | 1.80 | 1.58 | 1.35 | 1.00 |
| PRCP-RX300/72 | 4.65 | 4.08 | 3.57 | 3.00 | 2.43 | 2.16 | 1.89 | 1.62 | 1.20 |
| PRCP-RX375/72 | 5.81 | 5.10 | 4.46 | 3.75 | 3.04 | 2.70 | 2.36 | 2.03 | 1.50 |



# P.R.C.P

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ■ THERMAL DERATING CHART

#### Radial Leaded Type

##### ● PRCP-RHT series (I hold(A))

| Model        | Ambient operating temperature |         |      |       |       |       |       |       |       |        |
|--------------|-------------------------------|---------|------|-------|-------|-------|-------|-------|-------|--------|
|              | - 40 °C                       | - 20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | 125 °C |
| PRCP-RHT070  | 0.95                          | 0.87    | 0.79 | 0.7   | 0.62  | 0.56  | 0.51  | 0.47  | 0.39  | 0.17   |
| PRCP-RHT200  | 2.71                          | 2.49    | 2.26 | 2.00  | 1.77  | 1.60  | 1.46  | 1.34  | 1.11  | 0.49   |
| PRCP-RHT450  | 6.1                           | 5.6     | 5.1  | 4.5   | 4.0   | 3.6   | 3.3   | 3.0   | 2.5   | 1.1    |
| PRCP-RHT650  | 8.8                           | 8.1     | 7.4  | 6.5   | 5.7   | 5.3   | 4.8   | 4.3   | 3.6   | 1.6    |
| PRCP-RHT750  | 10.2                          | 9.4     | 8.6  | 7.5   | 6.6   | 6.1   | 5.6   | 5.0   | 4.1   | 1.9    |
| PRCP-RHT1300 | 17.7                          | 16.3    | 14.8 | 13.0  | 11.4  | 10.5  | 9.6   | 8.6   | 7.2   | 3.3    |

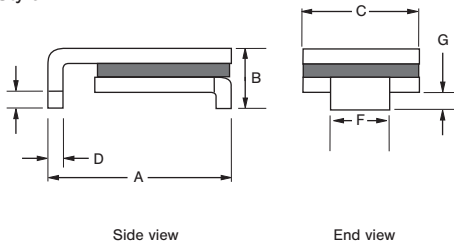
##### ● PRCP-RM series (I hold(A))

| Model          | Ambient operating temperature |      |       |       |       |       |       |       |
|----------------|-------------------------------|------|-------|-------|-------|-------|-------|-------|
|                | -20 °C                        | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| PRCP-RM005/240 | 0.08                          | 0.06 | 0.05  | 0.04  | 0.04  | 0.03  | 0.03  | 0.02  |
| PRCP-RM008/240 | 0.12                          | 0.10 | 0.08  | 0.07  | 0.06  | 0.05  | 0.04  | 0.03  |
| PRCP-RM012/240 | 0.18                          | 0.15 | 0.12  | 0.10  | 0.09  | 0.07  | 0.06  | 0.04  |
| PRCP-RM016/240 | 0.24                          | 0.20 | 0.16  | 0.13  | 0.11  | 0.10  | 0.08  | 0.05  |
| PRCP-RM025/240 | 0.38                          | 0.32 | 0.25  | 0.21  | 0.18  | 0.15  | 0.13  | 0.09  |
| PRCP-RM033/240 | 0.50                          | 0.42 | 0.33  | 0.27  | 0.23  | 0.20  | 0.17  | 0.11  |
| PRCP-RM040/240 | 0.61                          | 0.51 | 0.40  | 0.33  | 0.28  | 0.24  | 0.20  | 0.14  |
| PRCP-RM055/240 | 0.80                          | 0.68 | 0.55  | 0.46  | 0.40  | 0.35  | 0.29  | 0.22  |

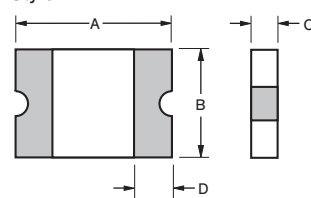
## OUTLINE DIMENSIONS

### Surface Mount Type

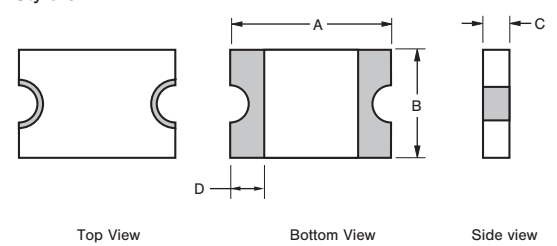
Style 1



Style 2



Style 3



### ● PRCP-SM series (mm/inch)

| Model         | A               |                 | B               | C               | D               |                 | F               |                 | G               |                 | H               | Style |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|               | Min.            | Max.            | Max.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            |       |
| PRCP-SM030    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.18<br>(0.125) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM050    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.18<br>(0.125) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM075    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.18<br>(0.125) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM100    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.00<br>(0.118) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM100/33 | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.00<br>(0.118) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM125    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.00<br>(0.118) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM150    | 8.00<br>(0.315) | 9.50<br>(0.374) | 3.00<br>(0.118) | 6.71<br>(0.264) | 0.56<br>(0.022) | 0.71<br>(0.028) | 3.68<br>(0.145) | 3.94<br>(0.155) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM150/33 | 8.00<br>(0.315) | 9.50<br>(0.374) | 3.00<br>(0.118) | 6.71<br>(0.264) | 0.56<br>(0.022) | 0.71<br>(0.028) | 3.68<br>(0.145) | 3.94<br>(0.155) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM185/33 | 8.00<br>(0.315) | 9.50<br>(0.374) | 3.00<br>(0.118) | 6.71<br>(0.264) | 0.56<br>(0.022) | 0.71<br>(0.028) | 3.68<br>(0.145) | 3.94<br>(0.155) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM200    | 8.00<br>(0.315) | 9.50<br>(0.374) | 3.00<br>(0.118) | 6.71<br>(0.264) | 0.56<br>(0.022) | 0.71<br>(0.028) | 3.68<br>(0.145) | 3.94<br>(0.155) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM250    | 8.00<br>(0.315) | 9.50<br>(0.374) | 3.00<br>(0.118) | 6.71<br>(0.264) | 0.56<br>(0.022) | 0.71<br>(0.028) | 3.68<br>(0.145) | 3.94<br>(0.155) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |
| PRCP-SM260    | 6.73<br>(0.265) | 7.98<br>(0.314) | 3.00<br>(0.118) | 5.44<br>(0.214) | 0.56<br>(0.022) | 0.71<br>(0.028) | 2.16<br>(0.085) | 2.41<br>(0.095) | 0.66<br>(0.026) | 1.37<br>(0.054) | 0.43<br>(0.017) | 1     |

### ● PRCP-SMDF series (mm/inch)

| Model        | A               |                 | B               |                 | C               |                 | D               | Style |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|              | Min.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            |       |
| PRCP-SMDF050 | 4.72<br>(0.186) | 5.44<br>(0.214) | 4.22<br>(0.166) | 4.93<br>(0.194) | 0.79<br>(0.031) | 1.09<br>(0.043) | 0.30<br>(0.012) | 2     |

### ● PRCP-USMF series (mm/inch)

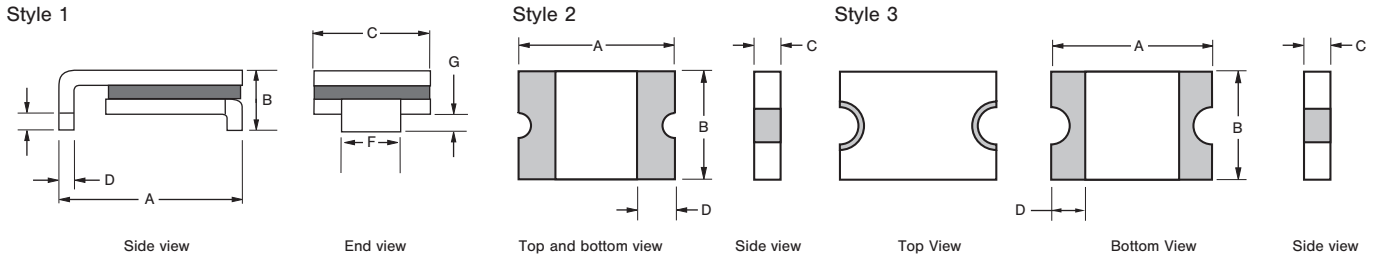
|              |                 |                 |                 |                 |                 |                 |                 |   |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| PRCP-USMF005 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.80<br>(0.031) | 1.1<br>(0.043)  | 0.30<br>(0.012) | 2 |
| PRCP-USMF010 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.80<br>(0.031) | 1.1<br>(0.043)  | 0.30<br>(0.012) | 2 |
| PRCP-USMF020 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.80<br>(0.031) | 1.1<br>(0.043)  | 0.30<br>(0.012) | 2 |
| PRCP-USMF035 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2 |
| PRCP-USMF050 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2 |
| PRCP-USMF075 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2 |
| PRCP-USMF110 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2 |
| PRCP-USMF150 | 3.00<br>(0.118) | 3.43<br>(0.135) | 2.35<br>(0.093) | 2.80<br>(0.110) | 0.40<br>(0.016) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2 |

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### OUTLINE DIMENSIONS

#### Surface Mount Type



#### ● PRCP-MSMF series (mm/inch)

| Model            | A               |                 | B               |                 | C               |                 | D               | Style |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|                  | Min.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            |       |
| PRCP-MSMF010     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF014     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF020     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF020/60  | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF030     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF050     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF075     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF075/24  | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF110     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF110/16  | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF110/24X | 4.37<br>(0.172) | 4.83<br>(0.190) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.60<br>(0.063) | 0.30<br>(0.012) | 3     |
| PRCP-MSMF125     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF150     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF150/24X | 4.37<br>(0.172) | 4.83<br>(0.190) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.60<br>(0.063) | 0.30<br>(0.012) | 3     |
| PRCP-MSMF160     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.55<br>(0.022) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF200     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.45<br>(0.018) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |
| PRCP-MSMF250/16X | 4.37<br>(0.172) | 4.83<br>(0.190) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.70<br>(0.028) | 1.60<br>(0.063) | 0.30<br>(0.012) | 3     |
| PRCP-MSMF260     | 4.37<br>(0.172) | 4.73<br>(0.186) | 3.07<br>(0.121) | 3.41<br>(0.134) | 0.45<br>(0.018) | 0.85<br>(0.033) | 0.30<br>(0.012) | 2     |

#### ● PRCP-NSMF series (mm/inch)

| Model            | A               |                 | B               |                 | C               |                 | D               | Style |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|                  | Min.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            |       |
| PRCP-NSMF012     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.70<br>(0.028) | 1.10<br>(0.043) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF020     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF020/30X | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.40<br>(0.016) | 0.85<br>(0.033) | 0.25<br>(0.010) | 3     |
| PRCP-NSMF035     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF035/16X | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.40<br>(0.016) | 0.85<br>(0.033) | 0.25<br>(0.010) | 3     |
| PRCP-NSMF050     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF075     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.40<br>(0.016) | 0.70<br>(0.028) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF110     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.40<br>(0.016) | 0.70<br>(0.028) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF150     | 3.00<br>(0.118) | 3.40<br>(0.134) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.40<br>(0.016) | 0.70<br>(0.028) | 0.25<br>(0.010) | 2     |
| PRCP-NSMF200     | 3.00<br>(0.118) | 3.50<br>(0.138) | 1.40<br>(0.055) | 1.80<br>(0.071) | 0.70<br>(0.028) | 1.60<br>(0.063) | 0.25<br>(0.010) | 2     |

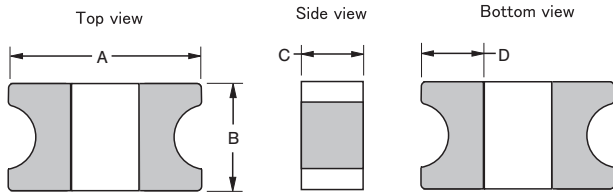
#### ● PRCP-PSMFseries (mm/inch)

|               |                 |                 |                 |                 |                 |                 |                 |   |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| PRCP-PSMF010X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.20<br>(0.008) | 3 |
| PRCP-PSMF020X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.20<br>(0.008) | 3 |
| PRCP-PSMF035X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.20<br>(0.008) | 3 |
| PRCP-PSMF050X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.48<br>(0.019) | 0.85<br>(0.033) | 0.20<br>(0.008) | 3 |
| PRCP-PSMF075X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.75<br>(0.030) | 1.25<br>(0.049) | 0.20<br>(0.008) | 3 |
| PRCP-PSMF110X | 2.00<br>(0.079) | 2.30<br>(0.091) | 1.20<br>(0.047) | 1.50<br>(0.059) | 0.75<br>(0.030) | 1.25<br>(0.049) | 0.20<br>(0.008) | 3 |

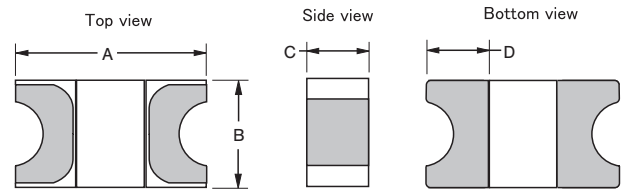
## OUTLINE DIMENSIONS

### Surface Mount Type

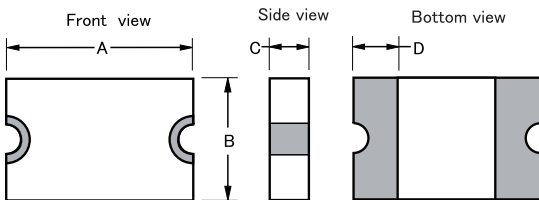
Style 4



Style 5



Style 6



● PRCP-ASML/X series  $\left(\frac{\text{mm}}{\text{inch}}\right)$



| Model          | A               |                 | B               |                 | C               |                 | D               | Style |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
|                | Min.            | Max.            | Min.            | Max.            | Min.            | Max.            | Min.            |       |
| PRCP-ASML010/6 |                 |                 |                 |                 |                 |                 |                 | 4     |
| PRCP-ASML020/6 | 0.85<br>(0.033) | 1.15<br>(0.045) | 0.35<br>(0.014) | 0.65<br>(0.026) | 0.20<br>(0.008) | 0.60<br>(0.024) | 0.10<br>(0.004) | 5     |
| PRCP-ASML035/6 |                 |                 |                 |                 |                 |                 |                 | 5     |
| PRCP-ASML050/6 |                 |                 |                 |                 |                 |                 |                 | 5     |

● PRCP-NSML/X series  $\left(\frac{\text{mm}}{\text{inch}}\right)$



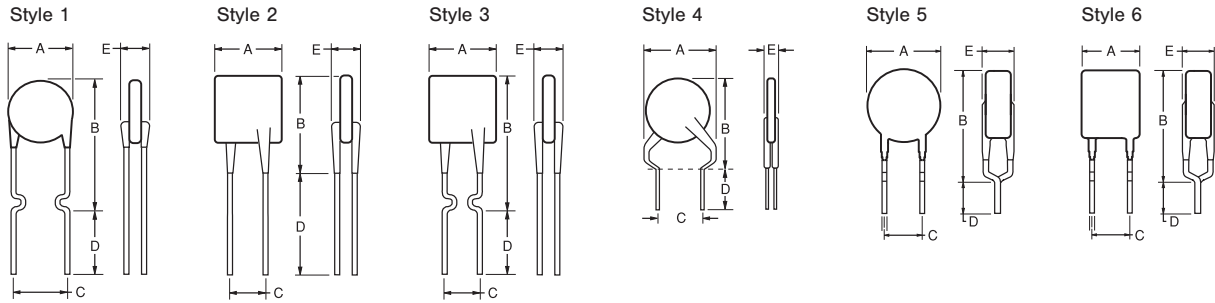
| Model           | A              |                | B              |                | C              |                 | D               | Style |
|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------|
|                 | Min.           | Max.           | Min.           | Max.           | Min.           | Max.            | Min.            |       |
| PRCP-NSML150/6  |                |                |                |                |                |                 |                 | 6     |
| PRCP-NSML150/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML175/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML175/12 | 3.0<br>(0.118) | 3.5<br>(0.138) | 1.4<br>(0.055) | 1.8<br>(0.071) | 0.4<br>(0.016) | 0.7<br>(0.028)  |                 |       |
| PRCP-NSML200/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML200/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML260/6  | 3.0<br>(0.118) | 3.5<br>(0.138) | 1.4<br>(0.055) | 1.8<br>(0.071) | 0.4<br>(0.016) | 0.7<br>(0.028)  |                 |       |
| PRCP-NSML260/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML300/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML300/12 | 3.0<br>(0.118) | 3.5<br>(0.138) | 1.4<br>(0.055) | 1.8<br>(0.071) | 0.6<br>(0.024) |                 | 0.25<br>(0.010) |       |
| PRCP-NSML350/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML350/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML380/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML380/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML400/6  | 3.0<br>(0.118) | 3.5<br>(0.138) | 1.4<br>(0.055) | 1.8<br>(0.071) | 0.6<br>(0.024) |                 |                 |       |
| PRCP-NSML400/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML450/12 |                |                |                |                |                |                 |                 |       |
| PRCP-NSML450/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML500/6  | 3.0<br>(0.118) | 3.5<br>(0.138) | 1.4<br>(0.055) | 1.8<br>(0.071) | 0.6<br>(0.024) | 0.95<br>(0.037) |                 |       |
| PRCP-NSML550/6  |                |                |                |                |                |                 |                 |       |
| PRCP-NSML600/6  |                |                |                |                |                |                 |                 |       |

# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### OUTLINE DIMENSIONS

#### Radial Leaded Type



#### ● PRCP-R series (mm/inch)

| Model         | A               |                 | B               |                | C              |                | D    |      | E | Style |
|---------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|------|------|---|-------|
|               | Max.            | Max.            | Nom.*           | Tol.** ±       | Min.           | Max.           | Min. | Max. |   |       |
| PRCP-R005     | 8.0<br>(0.315)  | 8.3<br>(0.327)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 4     |
| PRCP-R010     | 7.4<br>(0.291)  | 12.7<br>(0.5)   | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R017     | 7.4<br>(0.291)  | 12.7<br>(0.5)   | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R020     | 7.4<br>(0.291)  | 12.7<br>(0.5)   | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R025     | 7.4<br>(0.291)  | 12.7<br>(0.5)   | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R030     | 7.4<br>(0.291)  | 13.4<br>(0.528) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R040     | 7.4<br>(0.291)  | 13.7<br>(0.538) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R050     | 7.9<br>(0.311)  | 13.7<br>(0.538) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R065     | 9.7<br>(0.382)  | 15.2<br>(0.598) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R075     | 10.4<br>(0.409) | 16.0<br>(0.630) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R090     | 11.7<br>(0.461) | 16.7<br>(0.657) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-R090*-9  | 7.4<br>(0.291)  | 12.5<br>(0.480) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 3     |
| PRCP-R110     | 8.9<br>(0.350)  | 14.0<br>(0.551) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 1     |
| PRCP-R135     | 8.9<br>(0.350)  | 18.9<br>(0.744) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 1     |
| PRCP-R160     | 10.2<br>(0.402) | 16.8<br>(0.661) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 1     |
| PRCP-R185     | 12.0<br>(0.472) | 18.4<br>(0.724) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 1     |
| PRCP-R250     | 12.0<br>(0.472) | 18.3<br>(0.720) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R250*-10 | 12.0<br>(0.472) | 18.3<br>(0.720) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 3     |
| PRCP-R300     | 12.0<br>(0.472) | 18.3<br>(0.720) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R400     | 14.4<br>(0.567) | 24.8<br>(0.976) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R500     | 17.4<br>(0.685) | 24.9<br>(0.980) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R600     | 19.3<br>(0.760) | 31.9<br>(1.256) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R700     | 22.1<br>(0.870) | 29.8<br>(1.173) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R800     | 24.2<br>(0.953) | 32.9<br>(1.295) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R900     | 24.2<br>(0.953) | 32.9<br>(1.295) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |
| PRCP-R1100    | 24.2<br>(0.953) | 32.9<br>(1.295) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) |      |      |   | 2     |

#### ● PRCP-RG series (mm/inch)

|            |                 |                 |                |                |                |                |   |
|------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---|
| PRCP-RG300 | 7.1<br>(0.280)  | 11.0<br>(0.433) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) | 2 |
| PRCP-RG500 | 10.4<br>(0.409) | 14.3<br>(0.563) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.0<br>(0.118) | 2 |

#### ● PRCP-RX/72 series (mm/inch)

| Model         | A                |                  | B               |                | C              |                | D    |      | E | Style |
|---------------|------------------|------------------|-----------------|----------------|----------------|----------------|------|------|---|-------|
|               | Max.             | Max.             | Nom.*           | Tol.** ±       | Min.           | Max.           | Min. | Max. |   |       |
| PRCP-RX020/72 | 7.4<br>(0.291)   | 12.7<br>(0.5)    | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX025/72 | 7.4<br>(0.291)   | 12.7<br>(0.5)    | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX030/72 | 7.4<br>(0.291)   | 13.4<br>(0.528)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX040/72 | 7.4<br>(0.291)   | 13.7<br>(0.538)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX050/72 | 7.9<br>(0.311)   | 13.7<br>(0.538)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX065/72 | 9.7<br>(0.382)   | 15.2<br>(0.598)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX075/72 | 10.4<br>(0.409)  | 16.0<br>(0.630)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX090/72 | 11.7<br>(0.461)  | 16.7<br>(0.657)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 1     |
| PRCP-RX110/72 | 10.84<br>(0.427) | 16.84<br>(0.662) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX135/72 | 12.26<br>(0.483) | 18.26<br>(0.718) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX160/72 | 13.94<br>(0.549) | 19.94<br>(0.785) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX185/72 | 15.18<br>(0.598) | 21.18<br>(0.833) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX250/72 | 17.84<br>(0.702) | 23.84<br>(0.938) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX300/72 | 20.67<br>(0.814) | 26.67<br>(1.050) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |
| PRCP-RX375/72 | 23.51<br>(0.926) | 29.51<br>(1.161) | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.1<br>(0.122) |      |      |   | 2     |

#### ● PRCP-RHT series (mm/inch)

|              |                 |                 |                 |                |               |               |   |
|--------------|-----------------|-----------------|-----------------|----------------|---------------|---------------|---|
| PRCP-RHT070  | 6.86<br>(0.27)  | 10.8<br>(0.425) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.0<br>(0.12) | 3 |
| PRCP-RHT200  | 9.4<br>(0.37)   | 14.0<br>(0.55)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.0<br>(0.12) | 1 |
| PRCP-RHT450  | 10.4<br>(0.41)  | 15.6<br>(0.61)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.0<br>(0.12) | 2 |
| PRCP-RHT650  | 12.7<br>(0.50)  | 22.2<br>(0.88)  | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.0<br>(0.12) | 2 |
| PRCP-RHT750  | 14.0<br>(0.55)  | 21.9<br>(0.862) | 5.1<br>(0.201)  | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.0<br>(0.12) | 2 |
| PRCP-RHT1300 | 23.5<br>(0.925) | 28.7<br>(1.17)  | 10.2<br>(0.402) | 0.7<br>(0.028) | 7.6<br>(0.30) | 3.6<br>(0.14) | 2 |

#### ● PRCP-RM series (mm/inch)

| Model          | A               |                 | B              |                | C              |                | D    |      | E    |      | Style |
|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|------|------|------|------|-------|
|                | Max.            | Max.            | Nom.*          | Tol.** ±       | Min.           | Max.           | Min. | Max. | Min. | Max. |       |
| PRCP-RM005/240 | 8.3<br>(0.327)  | 12.9<br>(0.508) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 5     |
| PRCP-RM008/240 | 8.3<br>(0.327)  | 12.9<br>(0.508) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 5     |
| PRCP-RM012/240 | 8.3<br>(0.327)  | 12.9<br>(0.508) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 5     |
| PRCP-RM016/240 | 9.9<br>(0.390)  | 13.8<br>(0.543) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 5     |
| PRCP-RM025/240 | 10.0<br>(0.394) | 20.0<br>(0.787) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 6     |
| PRCP-RM033/240 | 11.4<br>(0.449) | 20.0<br>(0.787) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 6     |
| PRCP-RM040/240 | 11.5<br>(0.453) | 20.9<br>(0.823) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 3.8<br>(0.150) |      |      |      |      | 6     |
| PRCP-RM055/240 | 14.0<br>(0.551) | 22.4<br>(0.882) | 5.1<br>(0.201) | 0.7<br>(0.028) | 7.6<br>(0.299) | 4.1<br>(0.161) |      |      |      |      | 6     |

\*Nom. : Nominal value \*\*Tol. : Tolerance

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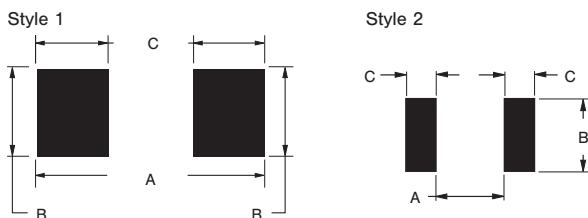
## POLYMER RESETTABLE CIRCUIT PROTECTORS

### ENVIRONMENTAL CHARACTERISTICS

| Item                                | Test conditions                         | Specifications                           |                    |                     |                     |                    |                    |                    |                    |       |
|-------------------------------------|---|--|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------|
|                                     |   | S MDF, MS MF, US MF, NS MF, PS MF series | SM series          | AS ML/X series      | NS ML/X series      | R, RG series       | RM series          | RX72 series        | RHT series         |       |
| Operating Temperature               |   | -40 ~ 85 °C                              | -40 ~ 85 °C        | -40 ~ 85 °C         | -40 ~ 85 °C         | -40 ~ 85 °C        | -20 ~ 85 °C        | -40 ~ 85 °C        | -40 ~ 125 °C       |       |
| typical resistance change (Typical) | Passive aging                           | 85 °C, 1000 h                            | ± 5 %              | ± 5 %               | ± 10 %              | ± 10 %             | ± 5 %              | ± 20 %             | ± 5 %              | ± 5 % |
|                                     | Humidity aging                          | 85 °C, 85 % RH, 1000 h                   | ± 5 %              | -                   | -                   | -                  | ± 5 %              | ± 20 %             | ± 5 %              | ± 5 % |
|                                     |   | 85 °C, 85 % RH, 168 h                    | -                  | ± 5 %               | -                   | -                  | -                  | -                  | -                  | -     |
|                                     |   | 85 °C, 85 % RH, 100 h                    | -                  | -                   | -                   | ± 15 %             | -                  | -                  | -                  | -     |
| Thermal shock                       | 85 °C, 85 % RH, 24 h                    | -  | -                  | ± 30 %              | -                   | -                  | -                  | -                  | -                  |       |
|                                     | 85 ~ -40 °C, 20 cycles                  | ± 10 % (SMDF only ± 20 %)                | - 20 %             | ± 30 %              | ± 30 %              | -                  | -                  | -                  | -                  |       |
|                                     | 85 ~ -40 °C, 10 cycles                  | -  | -                  | -                   | -                   | ± 10 %             | ± 15 %             | ± 10 %             | ± 10 %             |       |
|                                     | 85 ~ -55 °C, 10 cycles                  | -  | -                  | -                   | -                   | -                  | -                  | -                  | -                  |       |
|                                     | 125 ~ -40 °C, 10 cycles                 | -  | -                  | -                   | -                   | -                  | -                  | -                  | -                  |       |
| Solvent resistance                  | MIL-STD-202 Method 215                  | No change                                | -                  | No change           | No change           | No change          | No change          | No change          | No change          |       |
| Vibration                           | MIL-STD-883C Method 2007.1, Condition A | No change                                | No change          | No change           | No change           | No change          | No change          | No change          | No change          |       |
| MSL (Moisture Sensitivity Level)    |   | Level 1, J-STD-020                       | Level 1, J-STD-020 | Level 2a, J-STD-020 | Level 2a, J-STD-020 | Level 1, J-STD-020 | Level 1, J-STD-020 | Level 1, J-STD-020 | Level 1, J-STD-020 |       |

※ Please refer to the data sheet of each individual series about the details.

### RECOMMENDED PAD LAYOUT

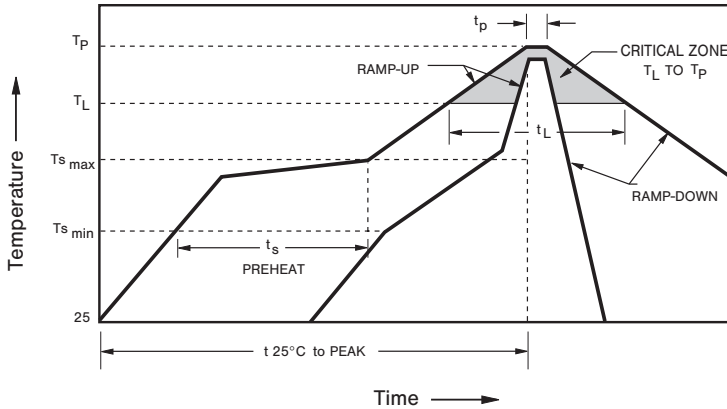


| Model                                       | A mm / (inch)                 | B mm / (inch)                 | C mm / (inch)                  | Style |
|---|-------------------------------|-------------------------------|--------------------------------|-------|
| PRCP-SM030, 050, 075, 100, 100/33, 125, 260 | 9.7 ± 0.1<br>(0.38 ± 0.004)   | 3.1 ± 0.1<br>(0.12 ± 0.004)   | 2.3 ± 0.1<br>(0.09 ± 0.004)    | 1     |
| PRCP-SM150, 150/33, 185/33, 200, 250        | 10.7 ± 0.1<br>(0.42 ± 0.004)  | 4.6 ± 0.1<br>(0.18 ± 0.004)   | 2.3 ± 0.1<br>(0.09 ± 0.004)    | 1     |
| PRCP-SMDF series                            | 3.4 ± 0.1<br>(0.134 ± 0.004)  | 4.6 ± 0.1<br>(0.181 ± 0.004)  | 1.5 ± 0.05<br>(0.059 ± 0.002)  | 2     |
| PRCP-MSMF series                            | 2.7 ± 0.1<br>(0.106 ± 0.004)  | 3.2 ± 0.1<br>(0.126 ± 0.004)  | 1.5 ± 0.05<br>(0.059 ± 0.002)  | 2     |
| PRCP-MSMF110/24X 150/24X, 250/16X           | 3.1 ± 0.1<br>(0.122 ± 0.004)  | 2.95 ± 0.1<br>(0.114 ± 0.004) | 1.68 ± 0.05<br>(0.066 ± 0.002) | 2     |
| PRCP-USMF series                            | 2.0 ± 0.1<br>(0.079 ± 0.004)  | 2.5 ± 0.1<br>(0.098 ± 0.004)  | 1.0 ± 0.05<br>(0.039 ± 0.002)  | 2     |
| PRCP-NSMF series                            | 2.0 ± 0.1<br>(0.079 ± 0.004)  | 1.6 ± 0.1<br>(0.063 ± 0.004)  | 1.0 ± 0.05<br>(0.039 ± 0.002)  | 2     |
| PRCP-PSMF series                            | 1.20 ± 0.1<br>(0.047 ± 0.004) | 1.50 ± 0.1<br>(0.059 ± 0.004) | 1.00 ± 0.05<br>(0.039 ± 0.002) | 2     |
| PRCP-ASML/X series                          | 0.4<br>(0.016)                | 0.7<br>(0.028)                | 0.6<br>(0.024)                 | 2     |
| PRCP-NSML/X series                          | 2.0<br>(0.079)                | 1.6<br>(0.063)                | 1.0<br>(0.039)                 | 2     |

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## POLYMER RESETTABLE CIRCUIT PROTECTORS

### SOLDER REFLOW RECOMMENDATIONS



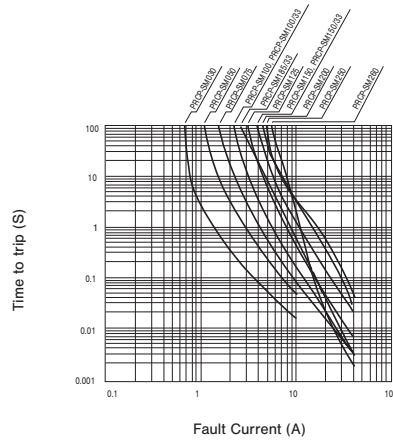
**Notes:**

- Wave soldering is permissible only if the device is on the top of the PCB, opposite the heat source.
- Hand soldering is not recommended for these devices.
- All temperatures refer to the topside of the device, measured on the device body surface.
- If reflow temperatures exceeded the recommended profile, devices may not meet the published specifications.
- Compatible with Pb and Pb-free solder reflow profiles.
- Excess solder may cause a short circuit.

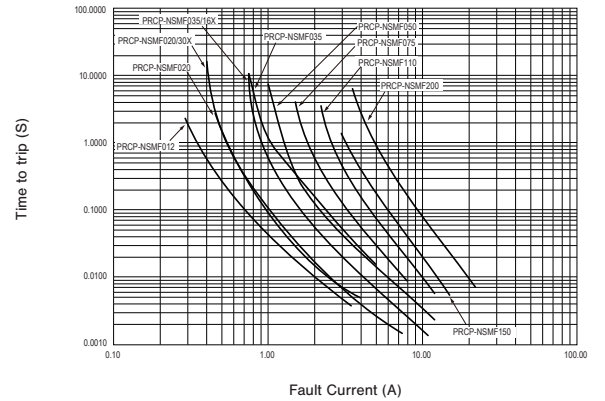
| Profile Feature  | Pb-Free Assembly  |
|--|-------------------|
| Average Ramp-Up Rate (T <sub>s_max</sub> to T <sub>p</sub> )       | 3 °C /second max. |
| PREHEAT  |                   |
| Temperature Min (T <sub>s_min</sub> )                              | 150 °C            |
| Temperature Max (T <sub>s_max</sub> )                              | 200 °C            |
| Time (T <sub>s_min</sub> to T <sub>s_max</sub> ) (t <sub>s</sub> ) | 60 ~ 180 seconds  |
| TIME MAINTAINED ABOVE:   |                   |
| Temperature (T <sub>L</sub> )                                      | 217 °C            |
| Time (t <sub>L</sub> )   | 60 ~ 150 seconds  |
| Peak Temperature (T <sub>p</sub> )                                 | 260 °C            |
| Time within 5 °C of Actual Peak Temperature (t <sub>p</sub> )      | 20 ~ 40 seconds   |
| Ramp-Down Rate   | 6 °C /second max. |
| Time 25 °C to Peak Temperature                                     | 8 minutes max.    |

### TYPICAL TIME TO TRIP AT 23°C

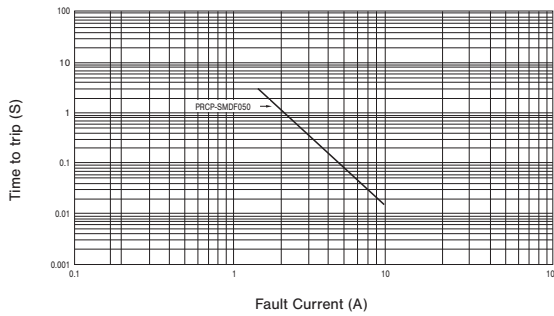
**PRCP-SM series**



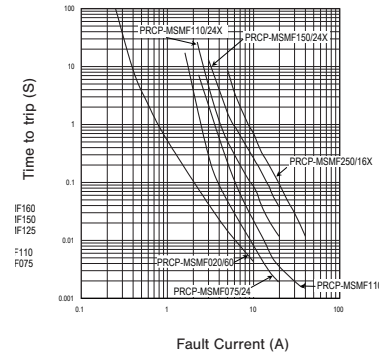
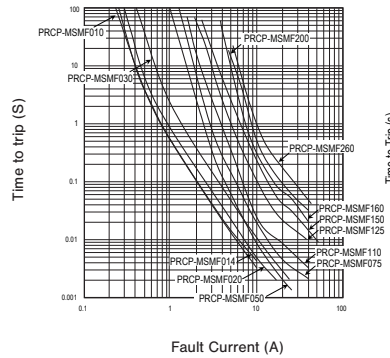
**PRCP-NSMF series**



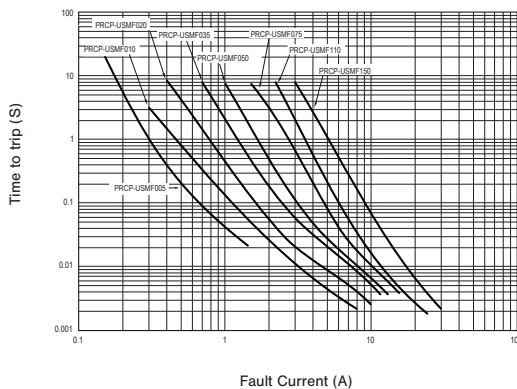
**PRCP-SMDF series**



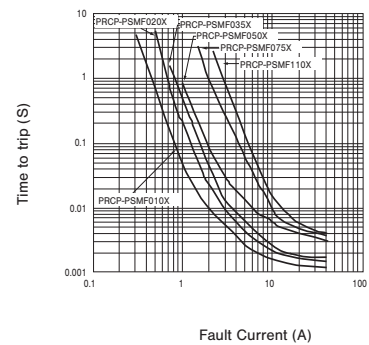
**PRCP-MSMF series**



**PRCP-USMF series**



**PRCP-PSMF series**



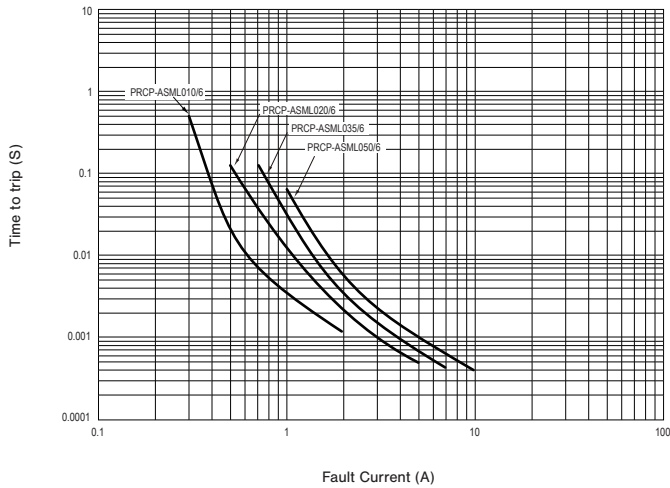


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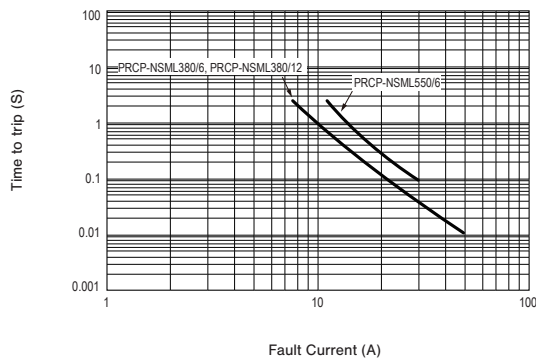
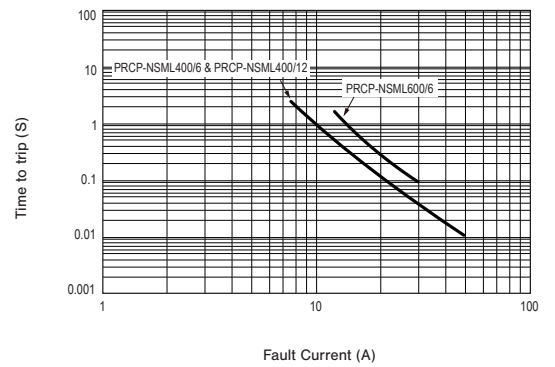
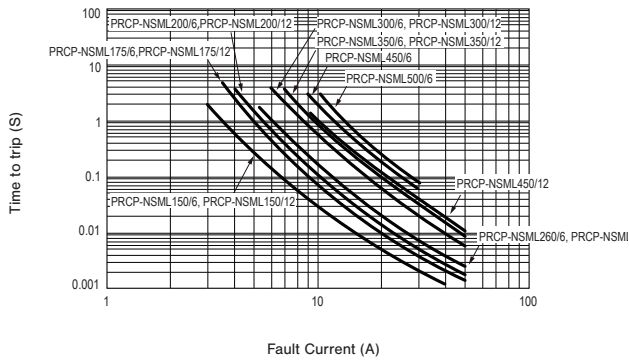
## POLYMER RESETTABLE CIRCUIT PROTECTORS

### TYPICAL TIME TO TRIP AT 23°C

#### PRCP-ASML/X series



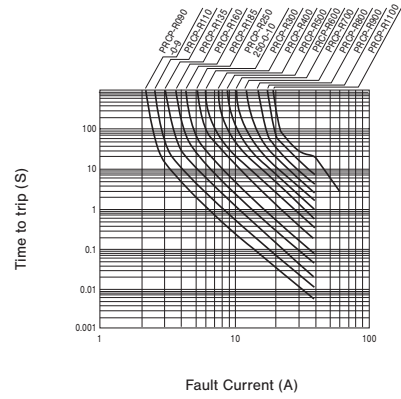
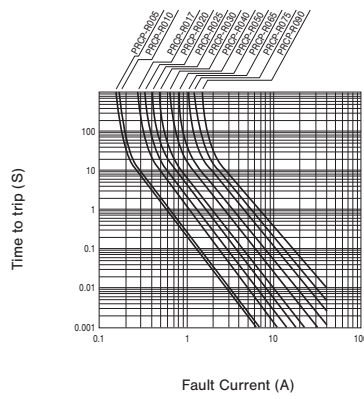
#### PRCP-NSML/X series



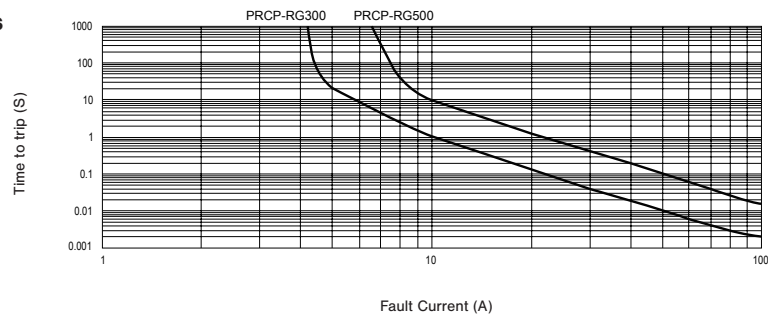
# P.R.C.P. POLYMER RESETTABLE CIRCUIT PROTECTORS

## TYPICAL TIME TO TRIP AT 23°C

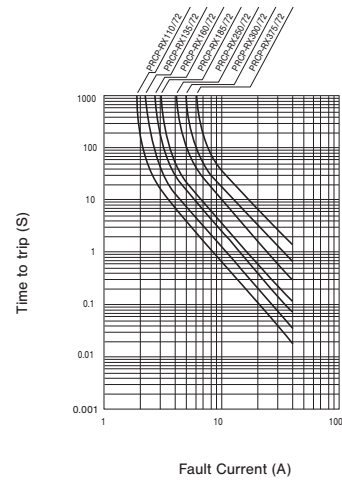
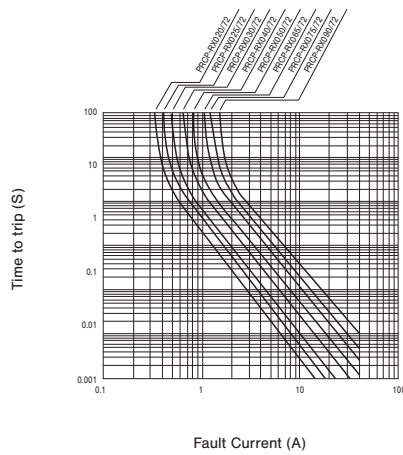
### PRCP-R series



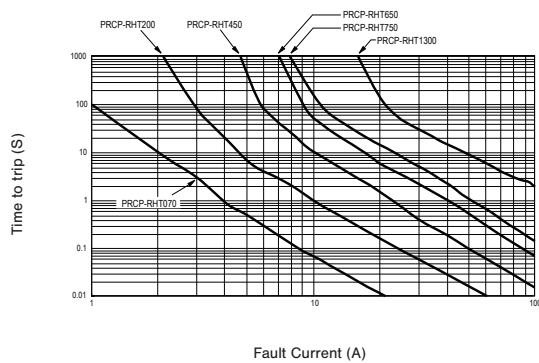
### PRCP-RG series



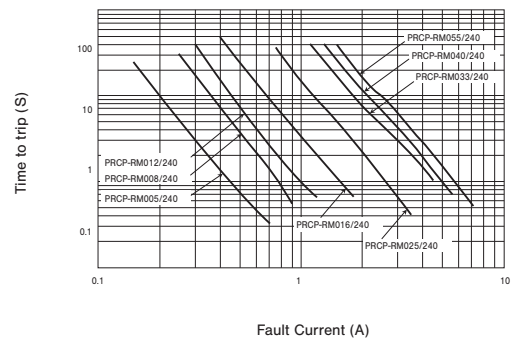
### PRCP-RX/72 series



### PRCP-RHT series



### PRCP-RM series



# P.R.C.P.

## POLYMER RESETTABLE CIRCUIT PROTECTORS

### PACKAGING SPECIFICATIONS

#### Surface Mount Type

| Packaging option       | Tape and Reel |      |      |      |      |      |      |       |
|------------------------|---------------|------|------|------|------|------|------|-------|
|                        | - 2           |      |      |      |      |      |      |       |
| Symbol                 | 1000          | 1500 | 2000 | 3000 | 3500 | 5000 | 6000 | 10000 |
| PRCP-SM030 ~ 125,260   |               |      | ○    |      |      |      |      |       |
| 150 ~ 250              |               | ○    |      |      |      |      |      |       |
| PRCP-MSMF010 ~ 030     |               | ○    |      |      |      |      |      |       |
| 050 ~ 200, 260         |               |      | ○    |      |      |      |      |       |
| 110/24X, 150/24X       |               | ○    |      |      |      |      |      |       |
| 250/16X                |               | ○    |      |      |      |      |      |       |
| PRCP-SMDF series       |               |      |      |      |      |      | ○    |       |
| PRCP-NSMF series       |               |      |      | ○    |      |      |      |       |
| PRCP-USMF series       |               |      |      | ○    |      |      |      |       |
| PRCP-PSMF series       |               |      |      | ○    |      |      |      |       |
| PRCP-ASML/X series     |               |      |      |      |      |      |      | ○     |
| PRCP-NSML150/6 ~ 260/6 |               |      |      |      |      | ○    |      |       |
| 300/6 ~ 600/6          |               |      |      |      | ○    |      |      |       |
| 150/12 ~ 260/12        |               |      |      |      |      | ○    |      |       |
| 300/12 ~ 450/12        |               |      |      |      | ○    |      |      |       |

#### Radial Leaded Type

| Packaging option         | Bulk packaging | Tape and Reel |      |      |      |
|--------------------------|----------------|---------------|------|------|------|
|                          | - 0            | - 2           |      |      |      |
| Symbol                   | 500            | 1000          | 1500 | 2000 | 3000 |
| PRCP-R005 ~ 160          | ○              |               |      |      | ○    |
| PRCP-R185 ~ 400          | ○              |               | ○    |      |      |
| PRCP-R500 ~ 1100         | ○              |               |      |      |      |
| PRCP-RG series           | ○              |               |      |      | ○    |
| PRCP-RX020/72 ~ 090/72   | ○              |               |      |      | ○    |
| PRCP-RX110/72 ~ 160/72   | ○              |               | ○    |      |      |
| PRCP-RX185/72 ~ 375/72   | ○              | ○             |      |      |      |
| PRCP-RHT070 ~ 200        | ○              |               |      |      | ○    |
| PRCP-RHT450 ~ 650        | ○              |               | ○    |      |      |
| PRCP-RHT750 ~ 1300       | ○              | ○             |      |      |      |
| PRCP-RM005/240 ~ 040/240 | ○              |               |      | ○    |      |
| PRCP-RM055/240           | ○              | ○             |      |      |      |

### DEFINITIONS OF SYMBOLS AND TERMS IN DATASHEET

#### V max : Maximum voltage

The maximum voltage a P.R.C.P. device can withstand without damage in its tripped state. The device may be damaged if you apply the voltage bigger than V max.

#### I max : Maximum current

The maximum fault current a P.R.C.P. device can withstand without damage at the rated voltage. The device may be damaged if you apply the current bigger than I max.

#### I hold : Hold current

The maximum current a P.R.C.P. device will not trip under specified conditions at 23°C.

#### I trip : Trip current

The minimum current that will switch a P.R.C.P. from the low resistance to the high resistance state under specified conditions at 23°C.

#### R min : Minimum resistance (Initial)

The minimum device resistance under specified conditions at 23°C.

#### R max : Maximum resistance (Initial)

The maximum device resistance under specified condition at 23°C.

#### R 1max : maximum resistance after past trip of past reflow

The maximum device resistance one hour after at 23°C.

A P.R.C.P. device has been tripped or been reflow-soldered.

#### Time to trip

The time for a P.R.C.P. device to trip. It will be in inverse proportion to the value of the current through the device.

#### Tripped power dissipation

Power dissipated from the device while in the tripped state at 23°C.

Power is calculated by the applied voltage and the current through the device.

### ■ PRECAUTIONS BEFORE USING

- P.R.C.P. devices are intended for the use of protection against the overcurrent fault, and should not be used where repeated or continuous fault conditions for the trip are expected.
- P.R.C.P. devices may be damaged by the abnormal heat generation caused by the application of the voltage greater than the maximum voltage.
- P.R.C.P. devices trip at the temperature of about 125°C. The devices may trip at the lower current than the expected I trip if the heat generating components are in the neighborhood or may not trip even at the I trip value if the surrounding high-temperature condition is super excellent.
- Hand-held soldering  
It is not recommended for the SMD type of P.R.C.P. using hand-held soldering at mounting, except for the PRCP-SM series.
- Parallel connection  
It is not able to recommend for parallel connection of P.R.C.P. because there is the possibility that does not act trip operation simultaneously, from the reason that the each currents differ by the difference of the resistance value of each device.

### ■ SELECTION GUIDE FOR THE OPTIMUM P.R.C.P. DEVICE

To select the optimum P.R.C.P. device, you have to consider the relations between the device parameters and operating conditions

Step for selection

Step 1: Select a suitable P.R.C.P. model which has the maximum voltage greater than the maximum circuit voltage.

Step 2: Select a suitable P.R.C.P. model which has the Ihold current greater than "Normal operating current" at "Operating Temperature" by using the "Thermal Derating chart - Ihold".

Step 3: Check the time to tripped state using the "Typical Time to trip at 23°C" for selected model.

| Operation condition          | Device parameter               |
|------------------------------|--------------------------------|
| Maximum circuit voltage (V)  | Vmax: Maximum voltage(V)       |
| Normal operating current (A) | Ihold: Hold current (A)        |
| Fault current (A)            | Itrip: Trip current (A)        |
| Operating Temperature (°C)   | Thermal derating chart (Ihold) |

# NON-STANDARD VERSIONS

## POLYMER RESETTABLE CIRCUIT PROTECTORS

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Special specification items are possible. From a cost and delivery standpoint, however, it is better to use standard catalog items, so sufficient consideration should be given at the design stage. The following are some examples of special specification items.

- DC motor protection

