

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 : 60 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 _{hold} | | I _{trip} | | 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 _{hold} | I _{trip} | 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 _{hold} | I _{trip} | 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 Led Type

● PRCP-R series

| Model | V max (V) | I max (A) | I _{hold} | I _{trip} | 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 _{hold} | I _{trip} | 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 _{hold} | I _{trip} | 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 (Ihold (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 (Ihold (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 |

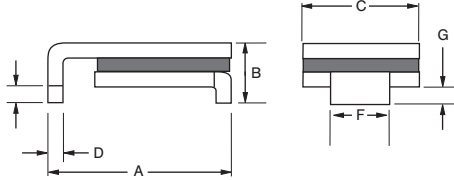
● PRCP-RM series (I hold(A))

| 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

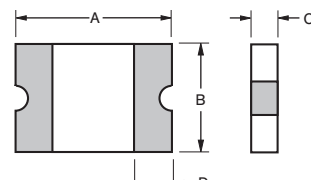
Style 1



Side view

End view

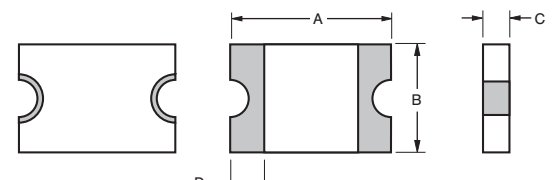
Style 2



Top and bottom view

Side view

Style 3



Top View

Bottom View

Side view

● 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 (0.265) | 7.98 (0.314) | 3.18 (0.125) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM050 | 6.73 (0.265) | 7.98 (0.314) | 3.18 (0.125) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM075 | 6.73 (0.265) | 7.98 (0.314) | 3.18 (0.125) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM100 | 6.73 (0.265) | 7.98 (0.314) | 3.00 (0.118) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM100/33 | 6.73 (0.265) | 7.98 (0.314) | 3.00 (0.118) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM125 | 6.73 (0.265) | 7.98 (0.314) | 3.00 (0.118) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM150 | 8.00 (0.315) | 9.50 (0.374) | 3.00 (0.118) | 6.71 (0.264) | 0.56 (0.022) | 0.71 (0.028) | 3.68 (0.145) | 3.94 (0.155) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM150/33 | 8.00 (0.315) | 9.50 (0.374) | 3.00 (0.118) | 6.71 (0.264) | 0.56 (0.022) | 0.71 (0.028) | 3.68 (0.145) | 3.94 (0.155) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM185/33 | 8.00 (0.315) | 9.50 (0.374) | 3.00 (0.118) | 6.71 (0.264) | 0.56 (0.022) | 0.71 (0.028) | 3.68 (0.145) | 3.94 (0.155) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM200 | 8.00 (0.315) | 9.50 (0.374) | 3.00 (0.118) | 6.71 (0.264) | 0.56 (0.022) | 0.71 (0.028) | 3.68 (0.145) | 3.94 (0.155) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM250 | 8.00 (0.315) | 9.50 (0.374) | 3.00 (0.118) | 6.71 (0.264) | 0.56 (0.022) | 0.71 (0.028) | 3.68 (0.145) | 3.94 (0.155) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (0.017) | 1 |
| PRCP-SM260 | 6.73 (0.265) | 7.98 (0.314) | 3.00 (0.118) | 5.44 (0.214) | 0.56 (0.022) | 0.71 (0.028) | 2.16 (0.085) | 2.41 (0.095) | 0.66 (0.026) | 1.37 (0.054) | 0.43 (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 (0.186) | 5.44 (0.214) | 4.22 (0.166) | 4.93 (0.194) | 0.79 (0.031) | 1.09 (0.043) | 0.30 (0.012) | 2 |

● PRCP-USMF series (mm/inch)

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

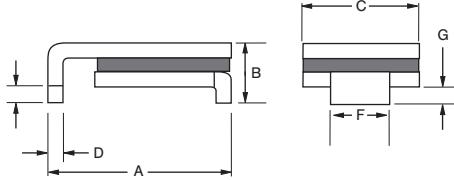
P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

OUTLINE DIMENSIONS

Surface Mount Type

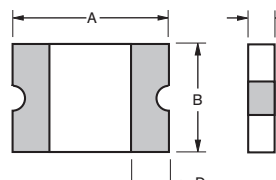
Style 1



Side view

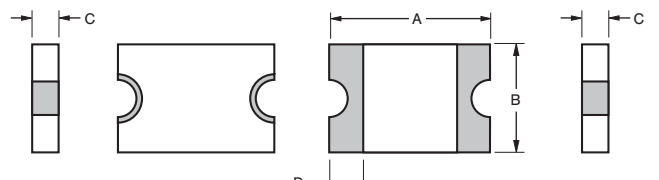
End view

Style 2



Top and bottom view

Style 3



Side view

Top View

Bottom View

Side view

● PRCP-MSMF series (mm (inch))

| Model | A | | B | | C | | D | Style |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | |
| PRCP-MSMF010 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.10 (0.043) | 0.30 (0.012) | 2 |
| PRCP-MSMF014 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.10 (0.043) | 0.30 (0.012) | 2 |
| PRCP-MSMF020 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.10 (0.043) | 0.30 (0.012) | 2 |
| PRCP-MSMF020/60 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.10 (0.043) | 0.30 (0.012) | 2 |
| PRCP-MSMF030 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.10 (0.043) | 0.30 (0.012) | 2 |
| PRCP-MSMF050 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF075 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF075/24 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF110 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF110/16 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF110/24X | 4.37 (0.172) | 4.83 (0.190) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.60 (0.063) | 0.30 (0.012) | 3 |
| PRCP-MSMF125 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF150 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF150/24X | 4.37 (0.172) | 4.83 (0.190) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.60 (0.063) | 0.30 (0.012) | 3 |
| PRCP-MSMF160 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.55 (0.022) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF200 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.45 (0.018) | 0.85 (0.033) | 0.30 (0.012) | 2 |
| PRCP-MSMF250/16X | 4.37 (0.172) | 4.83 (0.190) | 3.07 (0.121) | 3.41 (0.134) | 0.70 (0.028) | 1.60 (0.063) | 0.30 (0.012) | 3 |
| PRCP-MSMF260 | 4.37 (0.172) | 4.73 (0.186) | 3.07 (0.121) | 3.41 (0.134) | 0.45 (0.018) | 0.85 (0.033) | 0.30 (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 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.70 (0.028) | 1.10 (0.043) | 0.25 (0.010) | 2 |
| PRCP-NSMF020 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.48 (0.019) | 0.85 (0.033) | 0.25 (0.010) | 2 |
| PRCP-NSMF020/30X | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.40 (0.016) | 0.85 (0.033) | 0.25 (0.010) | 3 |
| PRCP-NSMF035 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.48 (0.019) | 0.85 (0.033) | 0.25 (0.010) | 2 |
| PRCP-NSMF035/16X | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.40 (0.016) | 0.85 (0.033) | 0.25 (0.010) | 3 |
| PRCP-NSMF050 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.48 (0.019) | 0.85 (0.033) | 0.25 (0.010) | 2 |
| PRCP-NSMF075 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.40 (0.016) | 0.70 (0.028) | 0.25 (0.010) | 2 |
| PRCP-NSMF110 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.40 (0.016) | 0.70 (0.028) | 0.25 (0.010) | 2 |
| PRCP-NSMF150 | 3.00 (0.118) | 3.40 (0.134) | 1.40 (0.055) | 1.80 (0.071) | 0.40 (0.016) | 0.70 (0.028) | 0.25 (0.010) | 2 |
| PRCP-NSMF200 | 3.00 (0.118) | 3.50 (0.138) | 1.40 (0.055) | 1.80 (0.071) | 0.70 (0.028) | 1.60 (0.063) | 0.25 (0.010) | 2 |

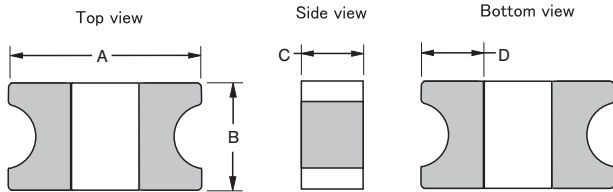
● PRCP-PSMF series (mm (inch))

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

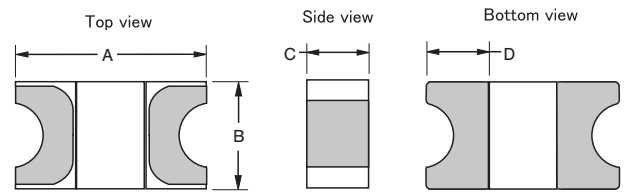
OUTLINE DIMENSIONS

Surface Mount Type

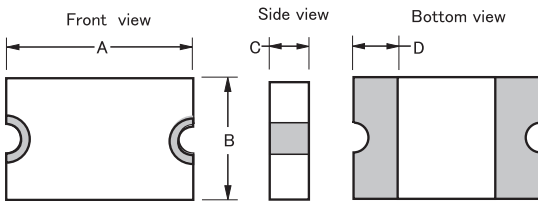
Style 4



Style 5



Style 6



● PRCP-ASML/X series (mm/inch)

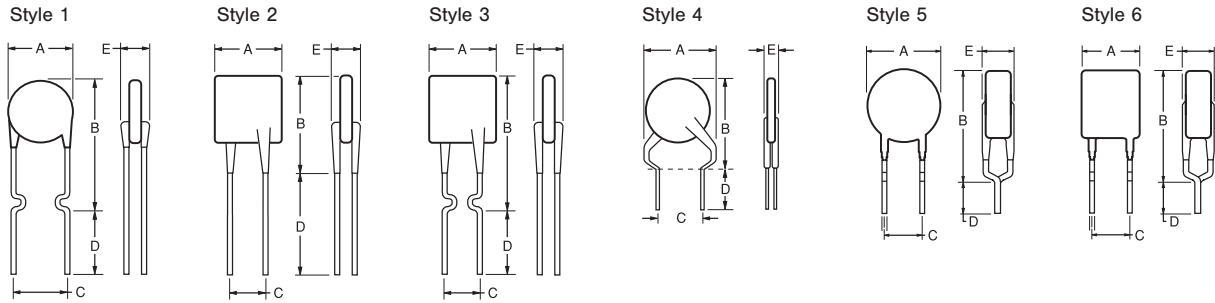
| Model | A | | B | | C | | D | Style |
|----------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | |
| PRCP-ASML010/6 | | | | | | | | 4 |
| PRCP-ASML020/6 | 0.85 | 1.15 | 0.35 | 0.65 | 0.20 | 0.60 | 0.10 | 5 |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

● PRCP-NSML/X series (mm/inch)

| 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 | 3.5 | 1.4 | 1.8 | 0.4 | 0.7 | | |
| PRCP-NSML200/6 | (0.118) | (0.138) | (0.055) | (0.071) | (0.016) | (0.028) | | |
| PRCP-NSML200/12 | | | | | | | | |
| PRCP-NSML260/6 | | | | | | | | |
| PRCP-NSML260/12 | 3.0 | 3.5 | 1.4 | 1.8 | 0.4 | 0.7 | | |
| PRCP-NSML300/6 | (0.118) | (0.138) | (0.055) | (0.071) | (0.016) | (0.028) | | |
| PRCP-NSML300/12 | | | | | | | | |
| PRCP-NSML350/6 | | | | | | | | |
| PRCP-NSML350/12 | | | | | | | 0.25 | |
| PRCP-NSML380/6 | | | | | | | (0.010) | |
| PRCP-NSML380/12 | | | | | | | | |
| PRCP-NSML400/6 | | | | | | | | |
| PRCP-NSML400/12 | 3.0 | 3.5 | 1.4 | 1.8 | 0.6 | 1.2 | | |
| PRCP-NSML450/12 | (0.118) | (0.138) | (0.055) | (0.071) | (0.024) | (0.047) | | |
| PRCP-NSML450/6 | | | | | | | | |
| PRCP-NSML500/6 | | | | | | | | |
| PRCP-NSML550/6 | 3.0 | 3.5 | 1.4 | 1.8 | 0.6 | 0.95 | | |
| PRCP-NSML600/6 | (0.118) | (0.138) | (0.055) | (0.071) | (0.024) | (0.037) | | |

OUTLINE DIMENSIONS

Radial Leaded Type



● PRCP-R series (mm (inch))

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

● PRCP-RG series (mm (inch))

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

● PRCP-RX/72 series (mm (inch))

| Model | A | | C | | D | | E | Style |
|---------------|------------------|------------------|-----------------|----------------|----------------|----------------|---|-------|
| | Max. | Max. | Nom.* | Tol.** ± | Min. | Max. | | |
| PRCP-RX020/72 | 7.4 (0.291) | 12.7 (0.5) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX025/72 | 7.4 (0.291) | 12.7 (0.5) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX030/72 | 7.4 (0.291) | 13.4 (0.528) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX040/72 | 7.40 (0.291) | 13.7 (0.539) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX050/72 | 7.9 (0.311) | 13.7 (0.539) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX065/72 | 9.7 (0.382) | 15.2 (0.598) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX075/72 | 10.4 (0.409) | 16.0 (0.630) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX090/72 | 11.7 (0.461) | 16.7 (0.657) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 1 | |
| PRCP-RX110/72 | 10.84 (0.427) | 16.84 (0.662) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX135/72 | 12.26 (0.483) | 18.26 (0.718) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX160/72 | 13.94 (0.549) | 19.94 (0.785) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX185/72 | 15.18 (0.598) | 21.18 (0.833) | 5.1 (0.201) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX250/72 | 17.84 (0.702) | 23.84 (0.938) | 10.2 (0.402) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX300/72 | 20.67 (0.814) | 26.67 (1.050) | 10.2 (0.402) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |
| PRCP-RX375/72 | 23.51 (0.926) | 29.51 (1.161) | 10.2 (0.402) | 0.7 (0.028) | 7.6 (0.299) | 3.1 (0.122) | 2 | |

● PRCP-RHT series (mm (inch))

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

● PRCP-RM series (mm (inch))

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

P.R.C.P.

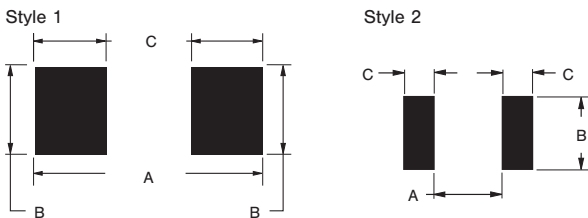
POLYMER RESETTABLE CIRCUIT PROTECTORS

ENVIRONMENTAL CHARACTERISTICS

| Item | Test conditions | Specifications | | | | | | | | |
|-------------------------------------|---|-------------------------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------|
| | | SMDF, MSMF, USMF, NSMF, PSMF series | SM series | ASML/X series | NSML/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 ~ 85°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 % | - | - | - | - | - | - |
| Thermal shock | 85 ~ -40°C, 20 cycles 85 ~ -40°C, 10 cycles 85 ~ -55°C, 10 cycles 125 ~ -40°C, 10 cycles | 85°C, 85 % RH, 100 h | - | - | ± 30 % | - | - | - | - | - |
| | | 85°C, 85 % RH, 24 h | - | - | - | - | - | - | - | - |
| | | ± 10 % (SMDF only ± 20 %) | - 20 % | ± 30 % | ± 30 % | - | - | - | - | - |
| 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

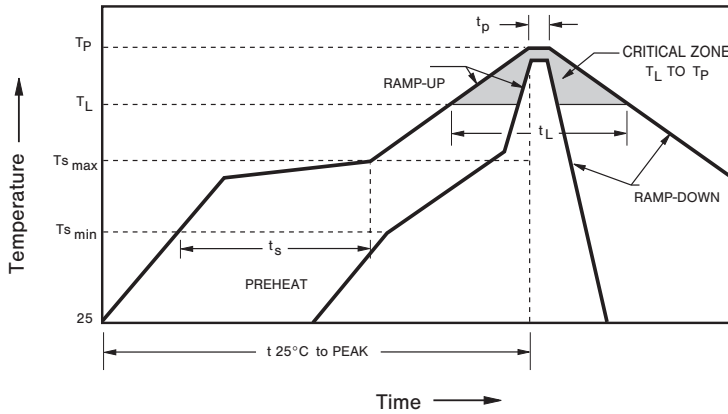


| Model | A mm / (inch) | B mm / (inch) | C mm / (inch) | Style |
|---|-------------------------------|-------------------------------|--------------------------------|-------|
| PRCP-SM030, 050, 075, 100, 100/33, 125, 260 | 9.7 ± 0.1 (0.38 ± 0.004) | 3.1 ± 0.1 (0.12 ± 0.004) | 2.3 ± 0.1 (0.09 ± 0.004)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

P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

SOLDER REFLOW RECOMMENDATIONS



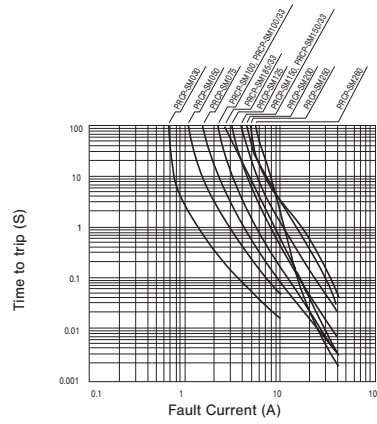
Notes:

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 exceed 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.

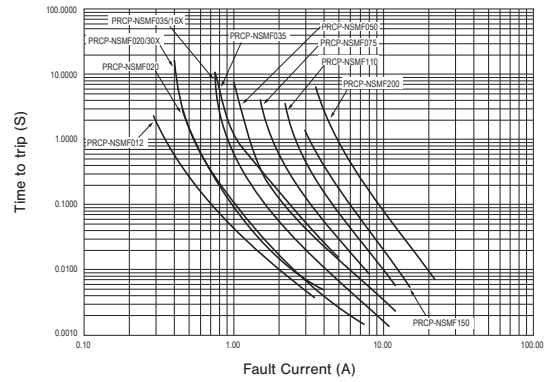
| Profile Feature | Pb-Free Assembly |
|--|------------------|
| Average Ramp-Up Rate ($T_{s\max}$ to T_p) | 3°C /second max. |
| PREHEAT | |
| Temperature Min ($T_{s\min}$) | 150°C |
| Temperature Max ($T_{s\max}$) | 200°C |
| Time ($T_{s\min}$ to $T_{s\max}$) (t_s) | 60 ~ 180 seconds |
| TIME MAINTAINED ABOVE: | |
| Temperature (T_L) | 217°C |
| Time (t_L) | 60 ~ 150 seconds |
| Peak Temperature (T_p) | 260°C |
| Time within 5°C of Actual Peak Temperature (t_p) | 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

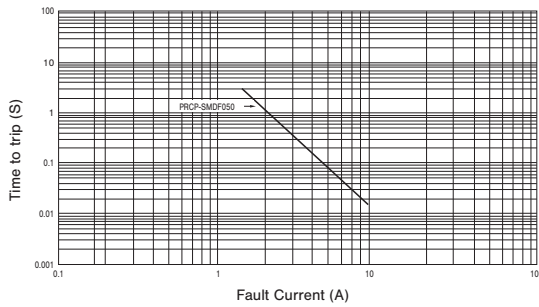
PRCP-SM series



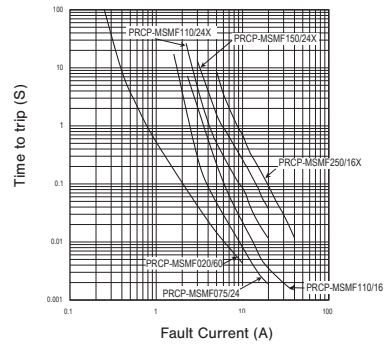
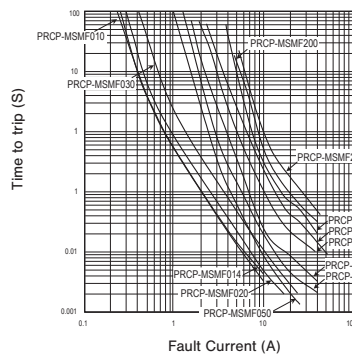
PRCP-NSMF series



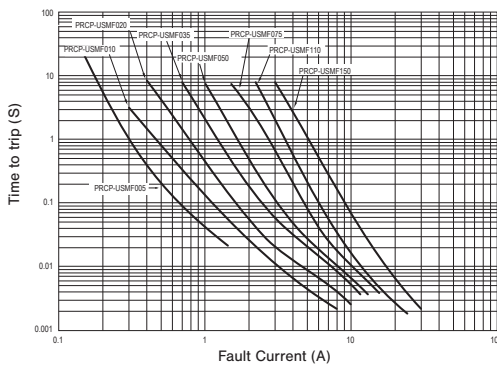
PRCP-SMDF series



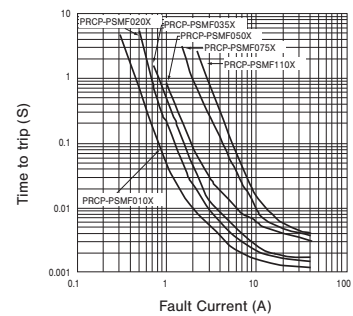
PRCP-MSMF series



PRCP-USMF series



PRCP-PSMF series

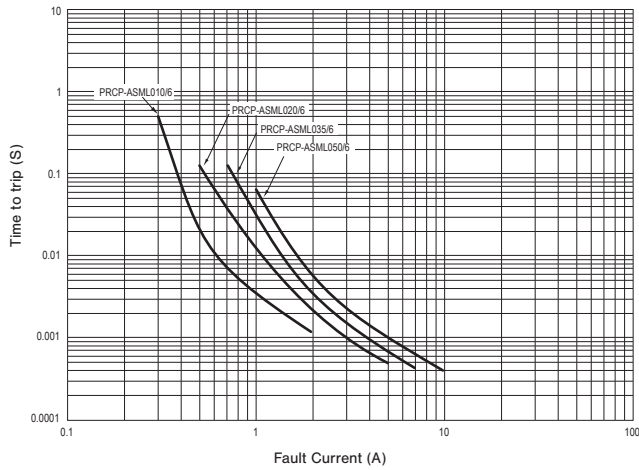


P.R.C.P.

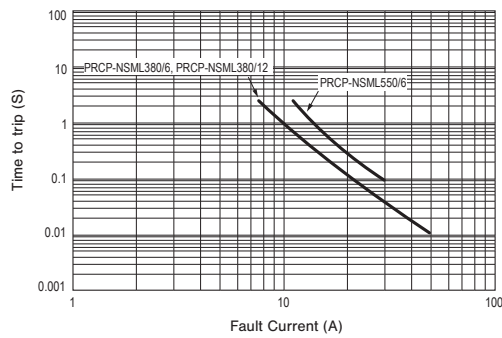
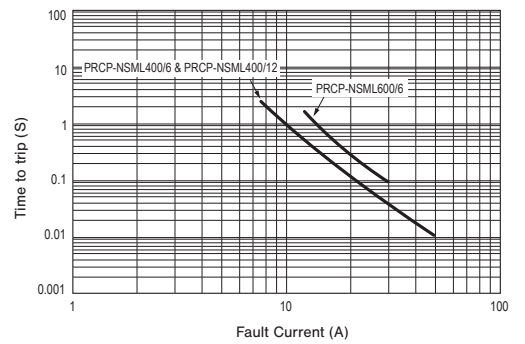
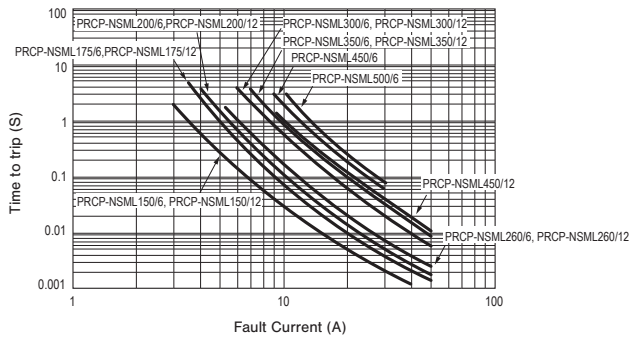
POLYMER RESETTABLE CIRCUIT PROTECTORS

TYPICAL TIME TO TRIP AT 23°C

PRCP-ASML/X series



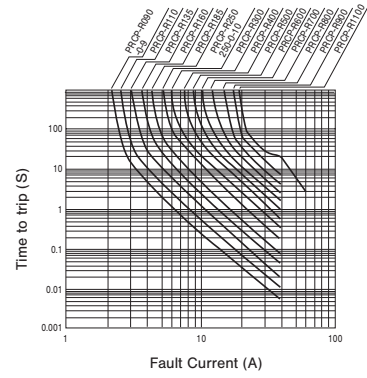
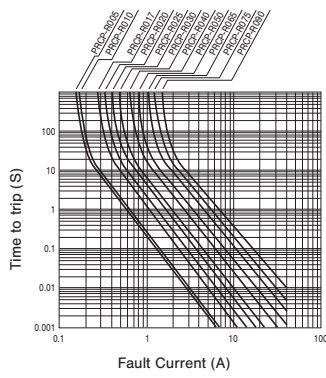
PRCP-NSML/X series



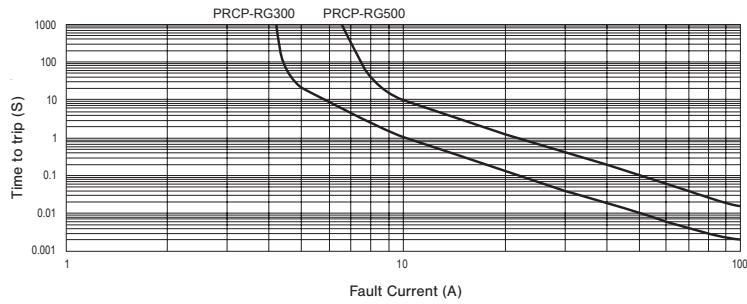
P.R.C.P. POLYMER RESETTABLE CIRCUIT PROTECTORS

TYPICAL TIME TO TRIP AT 23°C

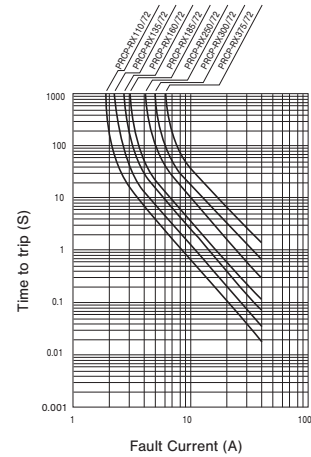
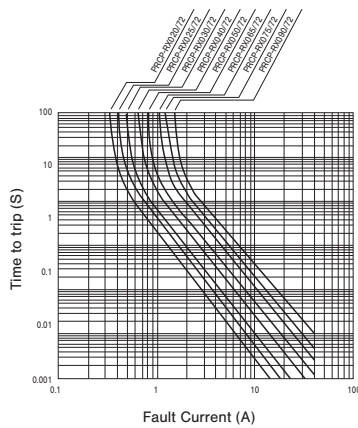
PRCP-R series



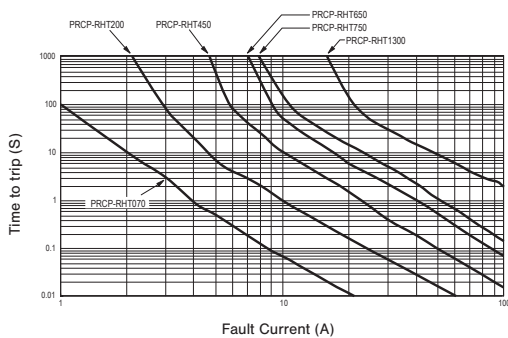
PRCP-RG series



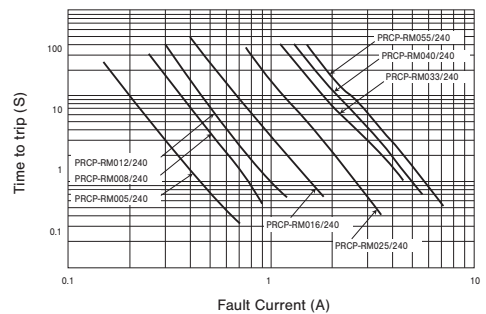
PRCP-RX/72 series



PRCP-RHT series



PRCP-RM series



P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

■ PACKAGING SPECIFICATIONS

Surface Mount Type

| Packaging option Symbol | Tape and Reel | | | | | | | |
|----------------------------|---------------|------|------|------|------|------|------|-------|
| | - 2 | | | | | | | |
| Quantity (pcs/reel) | 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 Symbol | Bulk packaging - 0 | Tape and Reel | | | |
|----------------------------|-----------------------|---------------|------|------|------|
| | | - 2 | | | |
| Quantity (pcs/reel) | 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

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

