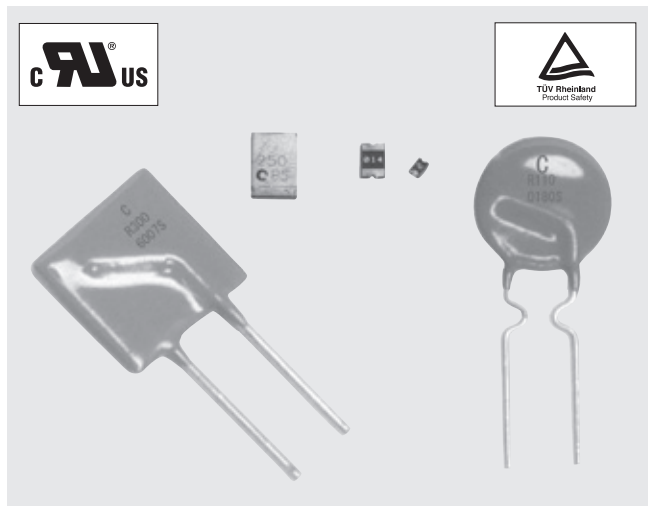




P.R.C.P. series are resettable overcurrent protective devices made of Polymer PTC (Positive Temperature coefficient) thermistor.

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 _{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
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● 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

P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

ELECTRICAL CHARACTERISTICS

Radial Ledged 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	R1 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 Leded 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)
				(A) at 23 °C	(A) at 23 °C	(Ω) at 23 °C	(Ω) at 23 °C
	Operating	Interrupt	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
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● 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

P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

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

THERMAL DERATING CHART

Radial Ledged 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

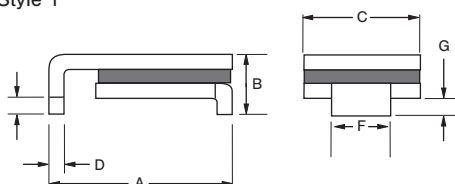
P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

OUTLINE DIMENSIONS

Surface Mount Type

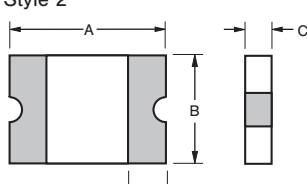
Style 1



Side view

End view

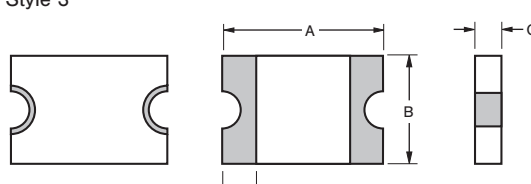
Style 2



Top and bottom view

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

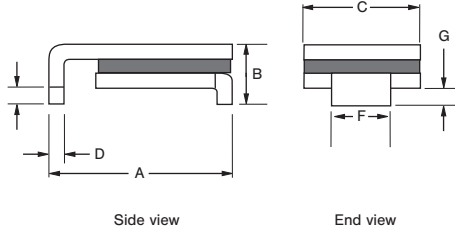
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POLYMER RESETTABLE CIRCUIT PROTECTORS

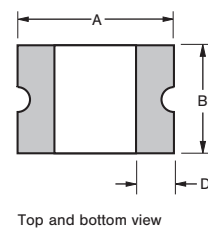
OUTLINE DIMENSIONS

Surface Mount Type

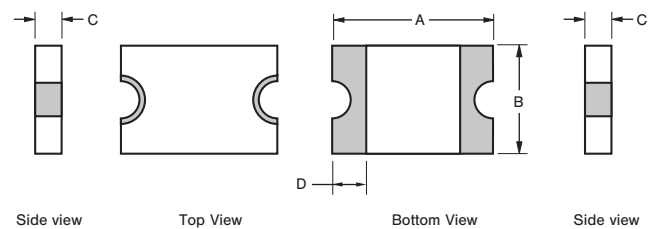
Style 1



Style 2



Style 3



● 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

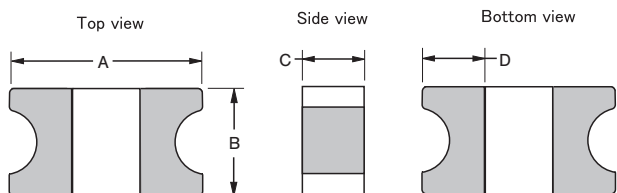
● PRCP-PSMFseries (mm (inch))

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

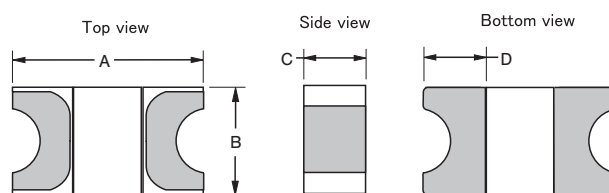
■ OUTLINE DIMENSIONS

Surface Mount Type

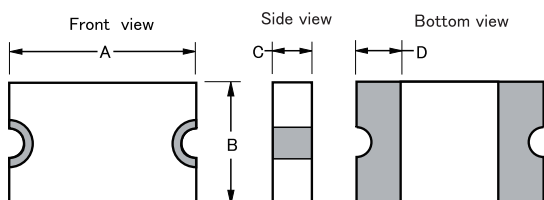
Style 4



Style 5



Style 6



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

Model	A		B		C		D	Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
PRCP-ASML010/6								4
PRCP-ASML020/6	0.85	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 $\left(\frac{\text{mm}}{\text{(inch)}}$

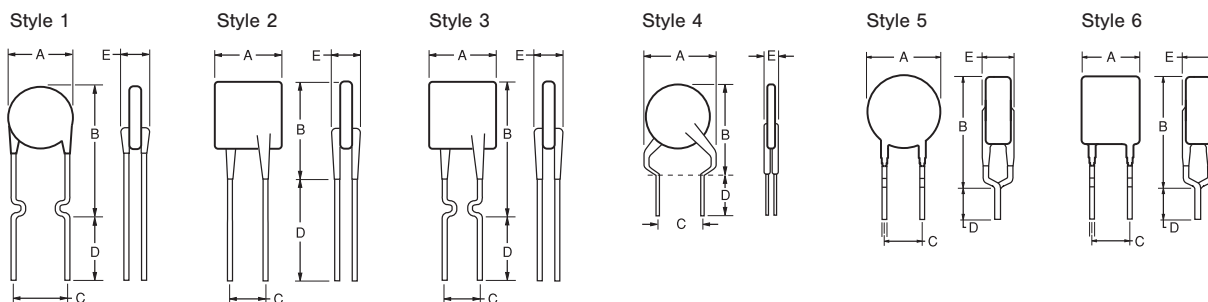
Model	A		B		C		D	Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
PRCP-NSML150/6	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.4}{(0.016)}$	$\frac{0.7}{(0.028)}$	$\frac{0.25}{(0.010)}$	6
PRCP-NSML150/12								
PRCP-NSML175/6								
PRCP-NSML175/12								
PRCP-NSML200/6								
PRCP-NSML200/12								
PRCP-NSML260/6	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.4}{(0.016)}$	$\frac{0.7}{(0.028)}$		
PRCP-NSML260/12	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.4}{(0.016)}$	$\frac{0.7}{(0.028)}$		
PRCP-NSML300/6	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.6}{(0.024)}$	$\frac{1.2}{(0.047)}$		
PRCP-NSML300/12								
PRCP-NSML350/6								
PRCP-NSML350/12	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.6}{(0.024)}$	$\frac{1.2}{(0.047)}$		
PRCP-NSML380/6								
PRCP-NSML380/12								
PRCP-NSML400/6								
PRCP-NSML400/12								
PRCP-NSML450/12	$\frac{3.0}{(0.118)}$	$\frac{3.5}{(0.138)}$	$\frac{1.4}{(0.055)}$	$\frac{1.8}{(0.071)}$	$\frac{0.6}{(0.024)}$	$\frac{0.95}{(0.037)}$		
PRCP-NSML450/6								
PRCP-NSML500/6								
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.	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)	12.2 (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*-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)					3
PRCP-R300	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-R400	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-R500	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-R600	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-R700	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-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-R1100	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		B		C		D		E		Style
	Max.	Max.	Nom.*	Tol.**	Min.	Max.	Min.	Max.	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	7.4 (0.291)	13.7 (0.538)	5.1 (0.201)	0.7 (0.028)	7.6 (0.299)	3.1 (0.122)					1
PRCP-RX050/72	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-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		B		C		D		E		Style
	Max.	Max.	Nom.*	Tol.**	Min.	Max.	Min.	Max.	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

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

P.R.C.P.

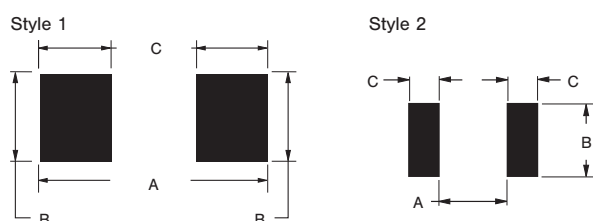
POLYMER RESETTABLE CIRCUIT PROTECTORS

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 ~ 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 %	—	—	—	—
		85 °C, 85 % RH, 24 h	—	—	± 30 %	—	—	—	—	—
	Thermal shock	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		—	—	—	—	—	—	—	—	
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

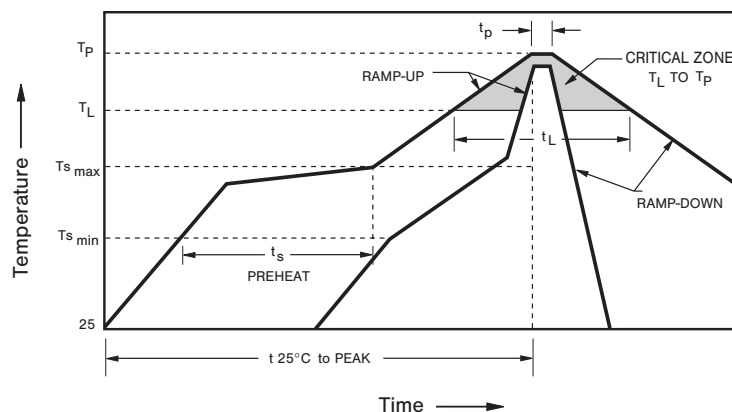


Model	A mm / (inch)	B mm / (inch)	C mm / (inch)	Style
PRCP-SM030, 050, 075, 100, 100/33, 125, 260	9.7 ± 0.1 (0.38 ± 0.004)	3.1 ± 0.1 (0.12 ± 0.004)	2.3 ± 0.1 (0.09 ± 0.004)	1
PRCP-SM150, 150/33, 185/33, 200, 250	10.7 ± 0.1 (0.42 ± 0.004)	4.6 ± 0.1 (0.18 ± 0.004)	2.3 ± 0.1 (0.09 ± 0.004)	1
PRCP-SMDF series	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.

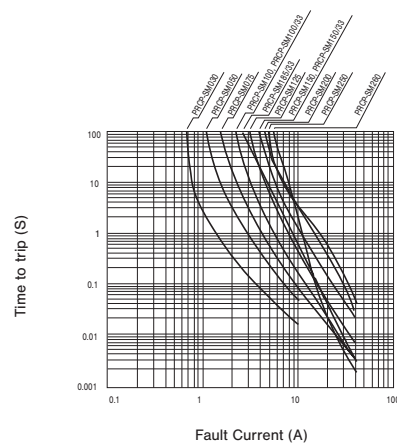
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	3 °C /second max.
PREHEAT	
Temperature Min ($T_{s_{min}}$)	150 °C
Temperature Max ($T_{s_{max}}$)	200 °C
Time ($T_{s_{min}}$ to $T_{s_{max}}$) (t_s)	60 ~ 180 seconds
TIME MAINTAINED ABOVE:	
Temperature (T_L)	217 °C
Time (t_L)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

P.R.C.P.

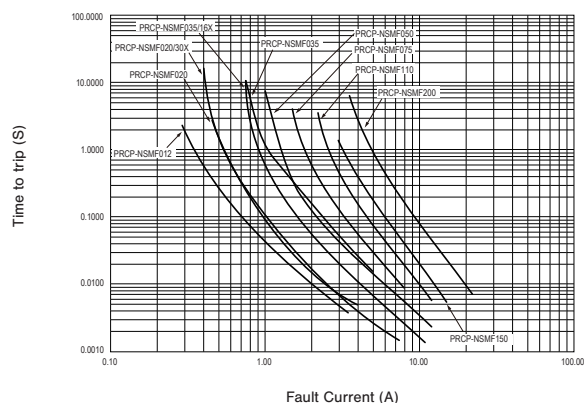
POLYMER RESETTABLE CIRCUIT PROTECTORS

TYPICAL TIME TO TRIP AT 23°C

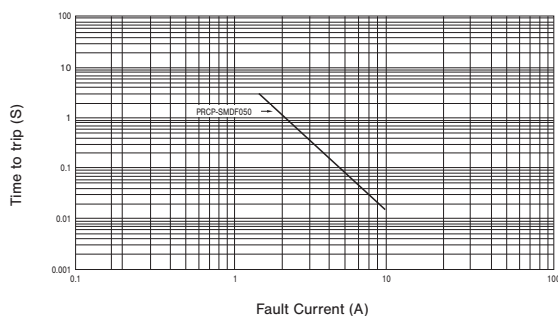
PRCP-SM series



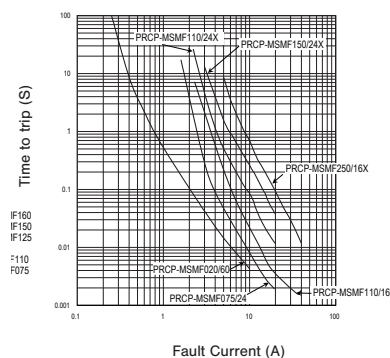
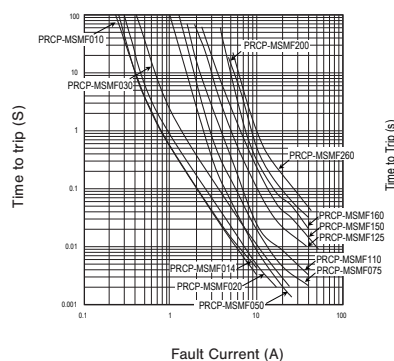
PRCP-NSMF series



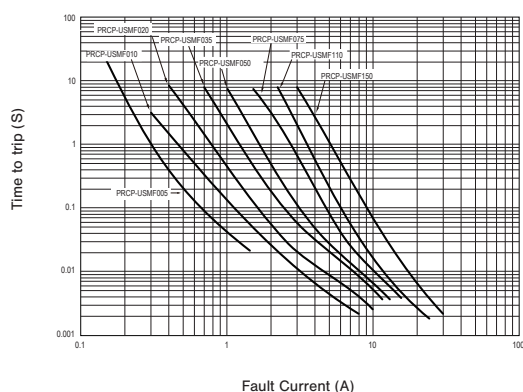
PRCP-SMDF series



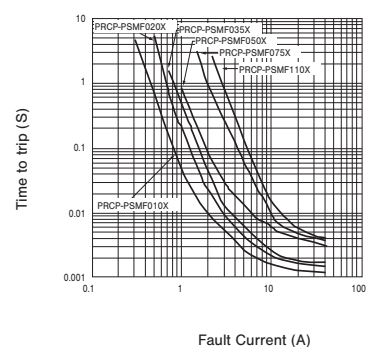
PRCP-MSMF series



PRCP-USMF series



PRCP-PSMF series

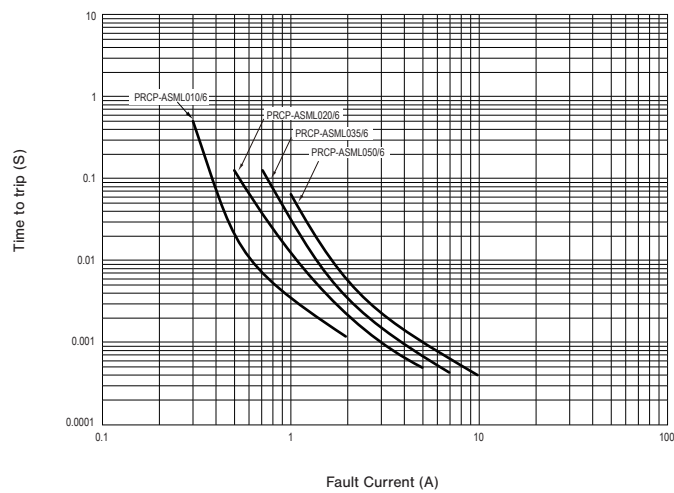


P.R.C.P.

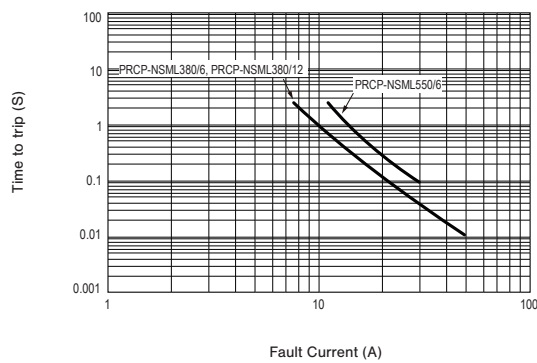
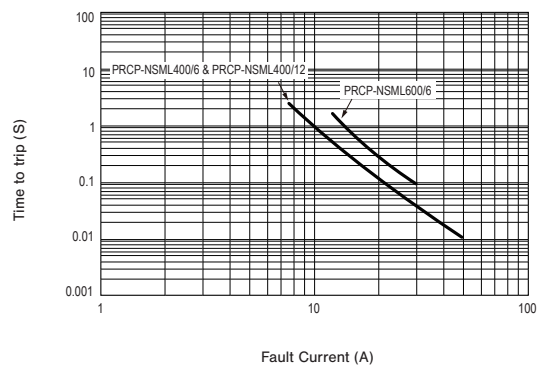
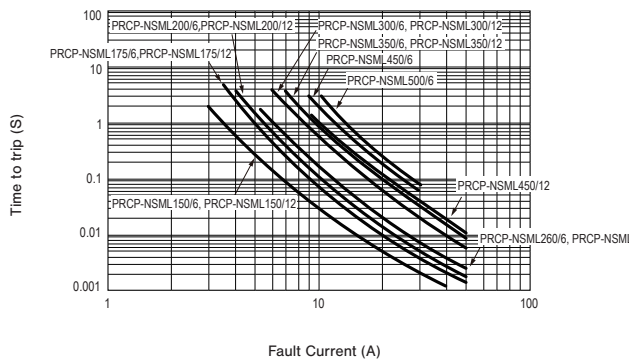
POLYMER RESETTABLE CIRCUIT PROTECTORS

TYPICAL TIME TO TRIP AT 23°C

PRCP-ASML/X series



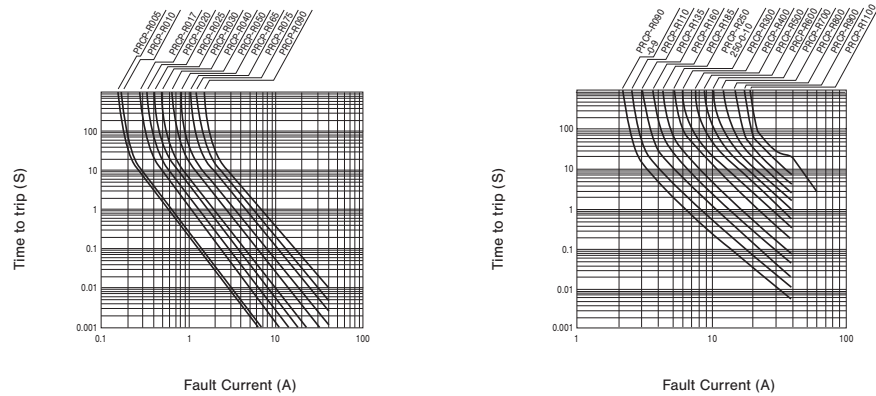
PRCP-NSML/X series



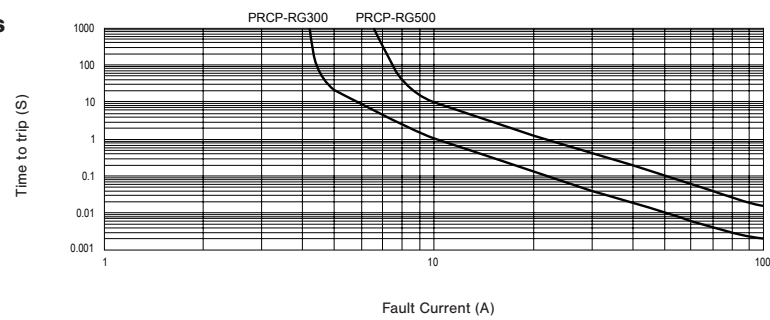
P.R.C.P. POLYMER RESETTABLE CIRCUIT PROTECTORS

TYPICAL TIME TO TRIP AT 23°C

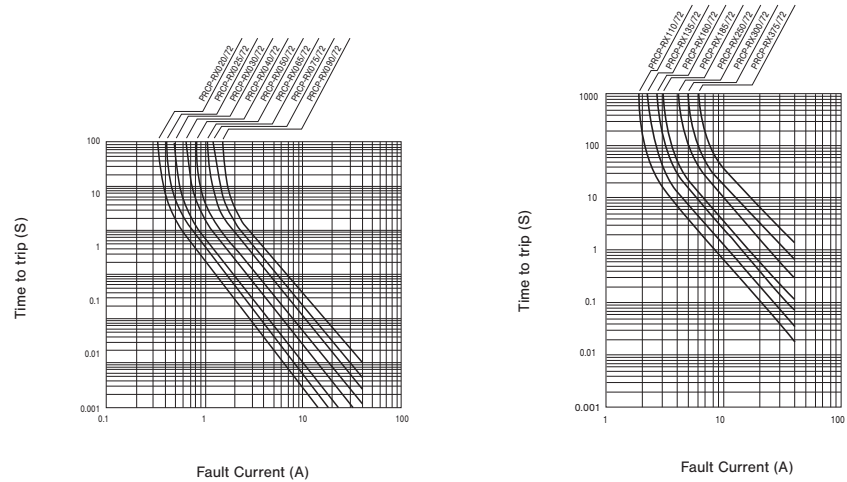
PRCP-R series



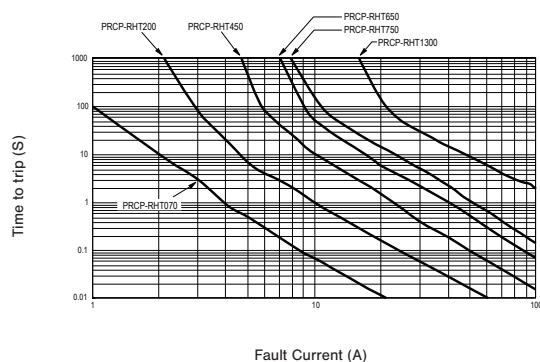
PRCP-RG series



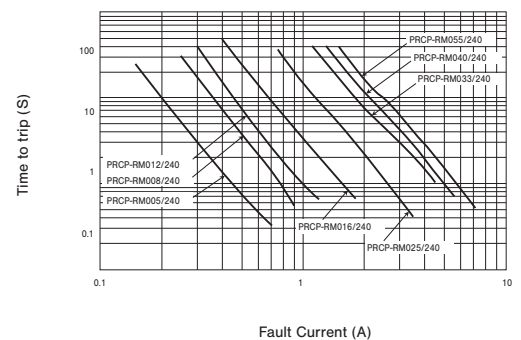
PRCP-RX/72 series



PRCP-RHT series



PRCP-RM series



P.R.C.P.

POLYMER RESETTABLE CIRCUIT PROTECTORS

PACKAGING SPECIFICATIONS

Surface Mount Type

Packaging option	Tape and Reel							
Symbol	- 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	Bulk packaging	Tape and Reel			
Symbol	- 0	- 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

