

# P.R.C.P.

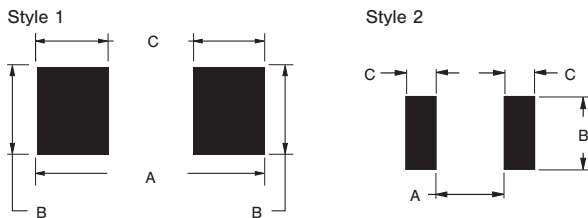
## POLYMER RESETTABLE CIRCUIT PROTECTORS

### 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°C, 85 % RH, 100 h	-	-	-	± 15 %	-	-	-	-	
	85°C, 85 % RH, 24 h	-	-	± 30 %	-	-	-	-	-	
Solvent resistance	MIL-STD-202 Method 215	85 ~ -40°C, 20 cycles	± 10 % (SMDF only ± 20 %)	-20 %	± 30 %	± 30 %	-	-	-	-
		85 ~ -40°C, 10 cycles	-	-	-	-	± 10 %	± 15 %	± 10 %	± 10 %
Vibration	MIL-STD-883C Method 2007.1, Condition A	85 ~ -55°C, 10 cycles	-	-	-	-	-	-	-	-
		125 ~ -40°C, 10 cycles	-	-	-	-	-	-	-	-
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