



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Self-Regulating Heaters

Positive Temperature Coefficient thermistors are truly remarkable for their ability to function as self-regulating heating elements. They can operate at a nearly constant temperature over a broad range of voltage and dissipation conditions. PTC heaters can be manufactured in many different configurations. These include discs, rectangles, squares, cylinders, and various shapes with holes to increase surface area. Multiple PTCs can be used in parallel to provide constant heating over a larger area.

## Features:

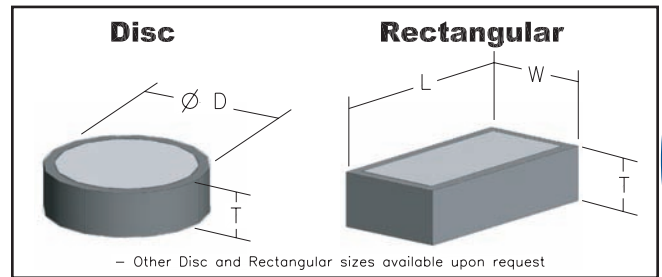
- No thermostat needed
- Virtually unlimited life
- No moving parts to wear
- Efficient
- Very low cost
- No electrical noise

## Typical Applications:

- IC heater
- Curling iron
- Hair dryer
- Hot melt glue gun
- Food warmer
- Diesel fuel heater
- Instrumentation heater
- Plug-in aroma heater
- Wax motor
- TCXO heater
- Liquid Crystal display
- Bimetal heater



Self-Regulating Heaters



PTC Thermistors

Standard Rectangular PTC Heaters						
Switch Temp. $T_s$ (°C)	$V_{max}^*$ (volts)	L (inches)	W (inches)	T (inches)	$R_{25}^{**}$ (Ω)	SS&C Part #
50	50	0.472	0.236	0.050	10	PR425C050S101H
90	50	0.472	0.236	0.050	10	PR425C090S101H
135	50	0.472	0.236	0.050	10	PR425C135S101H
50	120	0.472	0.236	0.100	70	PR421D050S701H
90	120	0.472	0.236	0.100	70	PR421D090S701H
135	120	0.472	0.236	0.100	70	PR421D135S701H

Other Available Rectangular Sizes	
L (INCHES)	W (INCHES)
0.400	0.200
0.472	0.236
0.750	0.350
0.985	0.315
2.000	0.350

Standard Disc PTC Heaters					
Switch Temp. $T_s$ (°C)	$V_{max}^*$ (volts)	D (inches)	T (inches)	$R_{25}^{**}$ (Ω)	SS&C Part #
50	50	0.500	0.050	5	P5005C050S500H
90	50	0.500	0.050	5	P5005C090S500H
135	50	0.500	0.050	5	P5005C135S500H
50	120	0.500	0.100	40	P5010D050S401H
90	120	0.500	0.100	40	P5010D090S401H
135	120	0.500	0.100	40	P5010D135S401H

Other Available Disc Diameters
DIAMETER (INCHES)
0.100
0.160
0.200
0.250
0.300
0.350
0.400
0.500
0.550
0.600
0.750

\*  $V_{MAX}$  = Maximum Voltage    \*\*  $R_{25}$  = Resistance at 25°C

Other Available Switch Temperatures
Switch Temperature $T_s$ (°C)
40°C - 150°C