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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!



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www.vishay.com

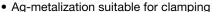
## Vishay BCcomponents

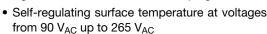
## **PTC Thermistors for Heating Application**



QUICK REFERENCE DATA				
PARAMETER	VALUE	UNIT		
Resistance value at 25 °C	1200	Ω		
Tolerance on R <sub>25</sub>	± 35	%		
Maximum voltage (RMS or DC)	265	V		
Maximum inrush current	1	Α		
Switching temperature	50 to 150			
Operating temperature range	-40 to 85	°C		
Storage temperature	-40 to 155			

#### **FEATURES**







 Self-protecting against over-heating due to PTC effect

ROHS

 Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

#### **DESCRIPTION**

These directly heated thermistors are made from doped BaTiO3 ceramic material with a large positive temperature coefficient in a defined temperature range. The silver metalized surfaces will stabilize at a specific temperature less dependent on applied voltage or thermal loading.

#### **MOUNTING**

Can be mounted by force clamping, single side loaded or dual sided. Soldering on the surfaces is not recommended.

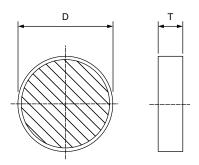
#### **APPLICATIONS**

- · Thermal actuators and valves
- Warming plates
- Vaporizers
- Heaters

ELECTRICAL DATA AND ORDERING INFORMATION				
R <sub>25</sub> (Ω)	T <sub>switch</sub> (°C)	T <sub>surf</sub> <sup>(1)</sup> at 230 V <sub>AC</sub> (°C)	ORDERING PART NUMBERS	
1200	50	100	PTCHP12S050HYE	
1200	90	125	PTCHP12S090HYE	
1200	110	140	PTCHP12S110HYE	
1200	130	160	PTCHP12S130HYE	
1200	150	180	PTCHP12S150HYE	

#### Note

#### **DIMENSIONS** in millimeters



D	Т
11.8 ± 0.2	2.0 ± 0.2

<sup>(1)</sup> Measured in a low thermal load set-up with the ceramic clamped between a 4 mm diameter stainless steel surface temperature probe on one side in the center of the metallized surface and 4 mm spring loaded round contact at the other side



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