

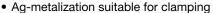
Vishay BCcomponents

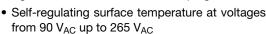
# **PTC Thermistors for Heating Application**



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.

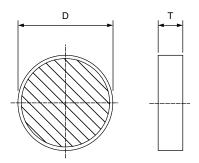
#### **APPLICATIONS**

- · 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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