

PTC Thermistor for Heating Applications



KEY BENEFITS

- Silver metallization suitable for clamping
- Self-regulating temperature with no oscillation
- Fast heat-up due to high dissipation at low temperatures
- Dissipates up to 20 W depending on mounting conditions
- Self-limiting power protects from overheating
- Maintains stable temperature regardless of supply voltage or ambient temperature
- Compliant with RoHS 2011/65/EU and WEEE 2002/96/EC

APPLICATIONS

- Consumer electronics
- Domestic appliances
- Industrial equipment

RESOURCES

- Datasheet: PTCHP - <http://www.vishay.com/doc?29093>
- For technical questions contact nlr@vishay.com



PTC Thermistor for Heating Applications



FEATURES

- Ag-metallization suitable for clamping
- Self-regulating surface temperature at voltages from 90 V_{AC} up to 265 V_{AC}
- Self-protecting against over-heating due to PTC effect
- Compliant to RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC


RoHS
COMPLIANT

QUICK REFERENCE DATA	
PARAMETER	VALUE
Resistance value at 25 °C	1200 Ω
Tolerance on R ₂₅	± 35 %
Rated voltage	230 V _{AC}
Maximum voltage	265 V _{AC}
Operating temperature range	- 40 °C to 85 °C
Climatic category	40/155/56

DESCRIPTION

These directly heated thermistors have a positive temperature coefficient and are primarily intended as heating element.

APPLICATIONS

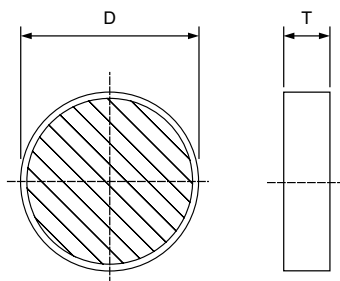
Home appliances (thermal actuators, warming plates, evaporators, insecticide and perfume vaporizers, fan-heaters).

ELECTRICAL DATA AND ORDERING INFORMATION				
R ₂₅ (Ω)	T _{switch} (°C)	T _{surf} ⁽¹⁾ at 230 V _{AC} (°C)	12NC	SAP CODING
1200	50	100	2381 662 95051	PTCHP12S050HYE
1200	90	125	2381 662 95091	PTCHP12S090HYE
1200	110	140	2381 662 95111	PTCHP12S110HYE
1200	130	160	2381 662 95131	PTCHP12S130HYE
1200	150	180	2381 662 95151	PTCHP12S150HYE

Note

⁽¹⁾ 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.

DIMENSIONS in millimeters



D	T
11.8 ± 0.2	2.0 ± 0.2