



Sensors > Temperature Sensors > RTD Sensors > RTD Sensor Elements > Pt100 RTD Thin Film Element



RTD Element Type: **Platinum Thin Film Temperature Element**

Tolerance Class: **Class B / F0.3**

Element Package: **Ceramic**

Element Material: **Platinum**

Lead Wire Style: **Ni/Au**

[All Pt100 RTD Thin Film Element \(26\)](#)

## Features

### Product Type Features

Wire/Cladding Type	Ni/Au
Model Number	PTFF101B1G0
RTD Element Type	Platinum Thin Film Temperature Element
Element Material	Platinum
Lead Wire Style	Ni/Au

### Configuration Features

Connector Type	Open Ends
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### Dimensions

Height (Body)	1.1 mm[.043 in]
Wire Length	10 mm[.393 in]
Wire Diameter	.25 mm[.009 in]
Length (Body)	4 mm[.157 in]
Width (Body)	2 mm[.078 in]

### Usage Conditions

Resistance (at T_ref)	100 (0 °C) Ω
T_ref for Accuracy	0 °C

Ambient Temperature Range	-50 – 600 °C[-58 – 1112 °F]
T1 and T2 for TCR	0 and +100 °C
TCR at (T1 and T2)	3850 ppm/°C
Accuracy (at T <sub>ref</sub> )	± .3 °C
T <sub>ref</sub> for Resistance	0 °C
Maximum Temperature	600 °C[1112 °F]

### Packaging Features

Element Package	Ceramic
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### Other

Tolerance Class	Class B / F0.3
Wire Count	2

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the

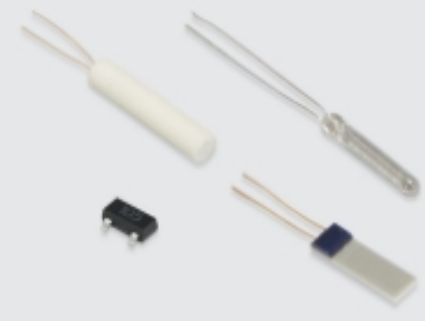
product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



TE Part # NB-PTCO-176  
Pt100, 2.0x4.0, Class B, PTF101B1A0

## Also in the Series | MEAS PTF



RTD Sensor Elements(53)

## Customers Also Bought



TE Part #1625966-6  
HSA10 120R 5%



TE Part #6609036-8  
6VSK7M=F7241 S0



TE Part #54774-1  
PG R 22-16COM22-18MIL 6-8-10



TE Part #1744057-6  
3.96 EP HDR ASSY 6P W/PEGS



TE Part #1554901-1  
SHIELD FINGER 2011 EMBOSS  
PACKING



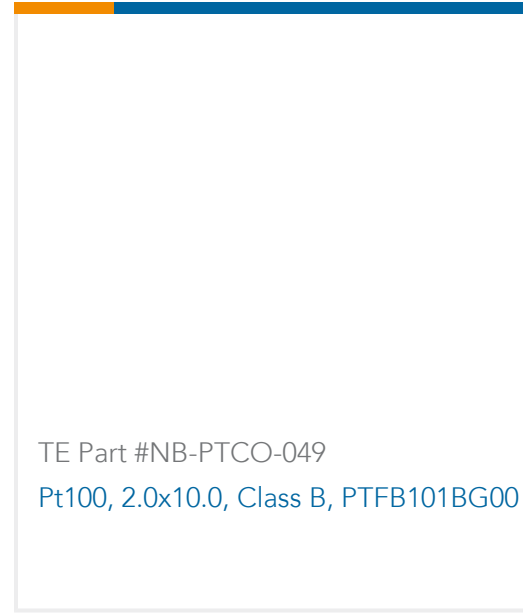
TE Part #1-172165-9  
2CIR MINI U-M-N-L PLUG BLCK



TE Part #104128-9  
050 LOPRO HDR SP 30DP LATCH



TE Part #NB-PTCO-190  
Pt1000, 1.2x4.0, Class C, PTFM102C1A0



## Documents

### CAD Files

[3D PDF](#)

[3D](#)

**Customer View Model**

[ENG\\_CVM\\_CVM\\_NB-PTCO-172\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_NB-PTCO-172\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_NB-PTCO-172\\_A.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[Datasheet PTF-Family PTFC,PTFD,PTFF,PTFM](#)

English