



Sensors > Temperature Sensors > RTD Sensors > RTD Sensor Elements > Pt1000 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: **Ag**

[All Pt1000 RTD Thin Film Element \(27\)](#)

## Features

### Product Type Features

Wire/Cladding Type	Ag
Model Number	PTFF102B1A0
RTD Element Type	Platinum Thin Film Temperature Element
Element Material	Platinum
Lead Wire Style	Ag

### 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	.3 mm[.011 in]
Length (Body)	4 mm[.157 in]
Width (Body)	2 mm[.078 in]

### Usage Conditions

Resistance (at T_ref)	1000 (0 °C) Ω
T_ref for Accuracy	0 °C

Ambient Temperature Range	-50 – 300 °C[-58 – 572 °F]
T1 and T2 for TCR	0 and +100 °C
TCR at (T1 and T2)	3850 ppm/°C
Accuracy (at T_ref)	± .3 °C
T_ref for Resistance	0 °C
Maximum Temperature	300 °C[572 °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
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No 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	Not Yet Reviewed for halogen content
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-101  
Pt1000, 2.0x4.0, Class B, PTF102B1G0

## Also in the Series | MEAS PTF



RTD Sensor Elements(53)

## Customers Also Bought



TE Part #1676264-2  
RN 0805 249R 0.1% 10PPM 1KRL



TE Part #1-826658-0  
2X10 POS AMPMODU II PIN HEADER



TE Part #6-1676481-4  
CPF 0603 2K7 0.1% 25PPM 1K RL



TE Part #6-1879028-7  
RN 0805 249K 0.1% 10PPM 1K RL



TE Part #2176430-2  
MPT35 R15 5%



TE Part #9236-BCE-T-600-002  
600PA DIFF. DIGITAL PRESSURE  
SENSOR



TE Part #173795-E  
IDCCS SMC 1,27 50 \* AU AUI 300 PVC

## Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)



[ENG\\_CVM\\_CVM\\_NB-PTCO-182\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_NB-PTCO-182\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_NB-PTCO-182\\_A.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

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

English