



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 Type: **Ceramic**

Element Material: **Platinum**

Lead Wire Style: **Ni/Au**

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

Features

Product Type Features

Wire/Cladding Type	Ni/Au
RTD Element Type	Platinum Thin Film Temperature Element
Element Type	Ceramic
Element Material	Platinum
Lead Wire Style	Ni/Au

Configuration Features

Electrical Connection	Open Ends
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Mechanical Attachment

Wire Length	10 mm[.393 in]
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Dimensions

Body Width	2 mm[.078 in]
Body Length	2.3 mm[.09 in]
Body Height	1.1 mm[.043 in]
Wire Diameter	.25 mm[.009 in]

Usage Conditions

T1 and T2 for TCR	0 and +100 °C
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Operating Temperature Range	-200 – 200 °C[-328 – 392 °F]
Accuracy (at T_ref)	± .3 °C
TCR at (T1 and T2)	3850 ppm/°C
Operating Temperature (Max)	200 °C[392 °F]

Other

Wire Count	2
Tolerance Class	Class B / F0.3

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts





TE Part # NB-PTCO-160
Pt100, 2.0x2.3, Class B, PTFC101B1A0



TE Part # NB-PTCO-165
Pt1000, 2.0x2.3, Class T, PTFC102T1A0

Also in the Series | MEAS PTF



RTD Sensor Elements(53)

Customers Also Bought



TE Part #2176117-7
TLR 1206 1.0W R006 1% 50PPM 2K RL



TE Part #7-1625867-6
RP 1J 0.166W 38R3 0.1% 25PPM 1K RL



TE Part #2176250-6
TJT 500W 6R8 5%



TE Part #1-1625885-4
1W SM M/OX 5% 10R



TE Part #1622371-1
LR1 1% 1R0



TE Part #1622512-1
LR1 1% 51R1



TE Part #9-1879746-7
RP 1J 59K 0.1% 15PPM CUT LENGTH



TE Part #7-2176526-5
3503G 2B 301R 1% 5K RL



TE Part #2-1879224-9
CPF 0603 5K9 0.1% 25PPM 1K RL



TE Part #3-1879216-1
CPF0402 130K 0.1% 25PPM 1K RL



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_NB-PTCO-295_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_NB-PTCO-295_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_NB-PTCO-295_A.3d_stp.zip

English

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Datasheets & Catalog Pages

PTFC102BC1G0

English

Pt1000, 2.0x2.3, Class B, PTFC102BC1G0

English