NB-PTCO-172 ✔ ACTIVE

MEAS | MEAS PTF

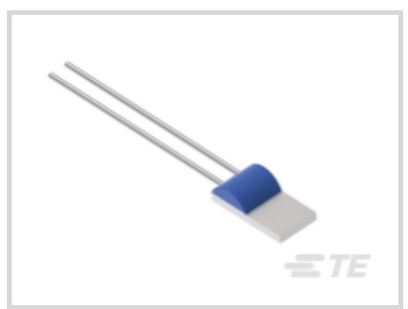
TE Internal #: NB-PTCO-172

TE Internal Description: Pt100, 2.0x4.0, Class B, PTFF101B1G0

Pt100 RTD Thin Film Element

View on TE.com >

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 Type: **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
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

Mechanical Attachment

Wire Length	10 mm[.393 in]

Dimensions

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

Usage Conditions

T1 and T2 for TCR	0 and +100 °C

TCR at (T1 and T2)	3850 ppm/°C
Accuracy (at T_ref)	± .3 °C
Operating Temperature Range	-50 – 600 °C[-58 – 1112 °F]
Operating Temperature (Max)	600 °C[1112 °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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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, PTFF101B1A0

Also in the Series | MEAS PTF



RTD Sensor Elements(53)

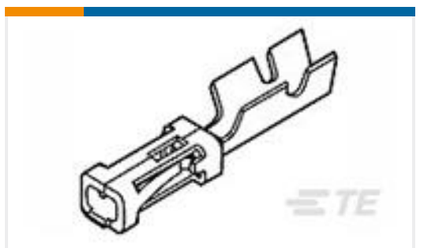
Customers Also Bought



TE Part #1625966-6
HSA10 120R 5%



TE Part #87631-1
06 MODIV HSG COMP DR .100 POL



TE Part #87667-3
MOD IV RECP LP



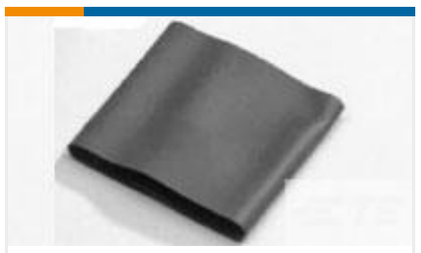
TE Part #1-1879417-4
CPF 0603 620K 0.1% 25PPM 1K RL



TE Part #1-1625886-4
1W SM M/OX 5% 3R3



TE Part #3-1625886-9
1W SM M/OX 5% 6R8



TE Part #665915J001
V2-5.0-0-SP-SM



TE Part #3-215297-6
36P HV100 REC CON. TE, 7.0MM

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