NB-PTCO-159 ✔ ACTIVE

MEAS | MEAS PTF

TE Internal #: NB-PTCO-159

TE Internal Description: Pt100, 2.0x2.3, Class C, PTFC101C1A0

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 C / F0.6**

Element Type: **Ceramic**

Element Material: **Platinum**

Lead Wire Style: **Ag**

All Pt100 RTD Thin Film Element (26)

Features

Product Type Features

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

Configuration Features

Electrical Connection	Open Ends

Mechanical Attachment

Wire Length	10 mm[.393 in]

Dimensions

Body Width	2 mm[.078 in]
Wire Diameter	.3 mm[.011 in]
Body Height	1.1 mm[.043 in]
Body Length	2.3 mm[.09 in]

Usage Conditions

T1 and T2 for TCR	0 and +100 °C

TCR at (T1 and T2)	3850 ppm/°C
Accuracy (at T_ref)	± .6 °C
Operating Temperature Range	-50 – 300 °C[-58 – 572 °F]
Operating Temperature (Max)	300 °C[572 °F]

Other

Wire Count	2
Tolerance Class	Class C / F0.6

Product Compliance

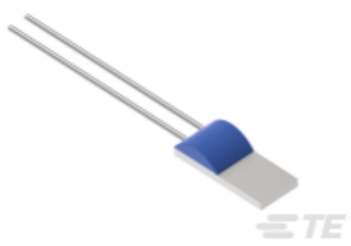
For compliance documentation, visit the product page on TE.com>

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-013
Pt100, 2.0x5.0, Class C, PTFD101C1G0

Also in the Series | MEAS PTF

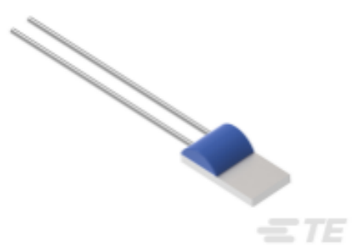


RTD Sensor Elements(53)

Customers Also Bought



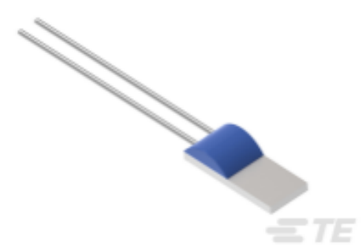
TE Part #89BSD-006BA-A
6 BARA 316L DIGITAL PRESSURE SENSOR



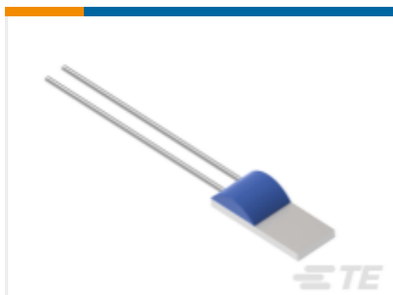
TE Part #NB-PTCO-172
Pt100, 2.0x4.0, Class B, PTFF101B1G0



TE Part #CSC-BNCM-1800-BNCM
BNC to BNC 1800mm RG58



TE Part #NB-PTCO-007
Pt1000, 2.0x5.0, Class C, PTFD102CN05



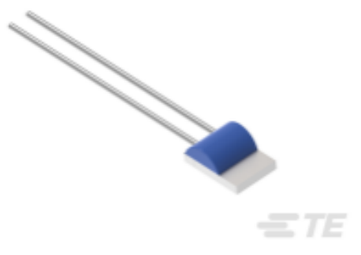
TE Part #NB-PTCO-023
Pt100, 2.0x5.0, Class B, PTFD101BGR0



TE Part #NB-PTCO-124
Pt500, 2.0x5.0, Class B, PTFD501BG00

TE Part #NB-PTCO-207
PTRB102BC01:ASSEMBLY,B

TE Part #NB-PTCO-228
PTRB101BG03:ASSEMBLY,B



TE Part #NB-PTCO-270
Pt100, 2.9x9.7, Class T, PTFA101TG00

TE Part #NB-PTCO-285
Pt1000, 2.0x2.3,inv,Class B, PTFC102BIG3

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_NB-PTCO-159_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_NB-PTCO-159_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_NB-PTCO-159_1.3d_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

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

SBCHE64R7K U5254-000005-030PA CPF0402B37K4E1 1969656-1 2310537-1 2380312-2 3-1393225-0 917696-1 936348-1 3631B101LL 650075-000 SMW73R0JT TE50BR39J 141991-2 175977-2 2377783-2 2834055-1 SBCHE154R7K 1-794222-0 1-962915-1 1903112-2 2005330-1 CRGCQ2010J3K3 1393431-1 2-292161-3 3430B2F51RTDF MPT100C18RF 1743455-2 RH73H2A40MKTN ROX05SJ18R