

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: Ag

[All Pt100 RTD Thin Film Element \(27\)](#)

Features

Product Type Features

| | |
|--------------------|--|
| Wire/Cladding Type | Ag |
| Model Number | PTFM101B1A0 |
| RTD Element Type | Platinum Thin Film Temperature Element |
| Element Material | Platinum |
| Lead Wire Style | Ag |

Configuration Features

| | |
|----------------|-----------|
| Connector Type | Open Ends |
|----------------|-----------|

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) | 1.2 mm[.047 in] |

Usage Conditions

| | |
|-----------------------|--------------|
| Resistance (at T_ref) | 100 (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 |
|-----------------|---------|

Other

| | |
|-----------------|----------------|
| Tolerance Class | Class B / F0.3 |
| Wire Count | 2 |

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com/compliance)>

| | |
|---|--|
| 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: JAN 2021 (211) Does not contain REACH SVHC |
| Halogen Content | Not Yet Reviewed for halogen content |
| Solder Process Capability | Not reviewed for solder process capability |

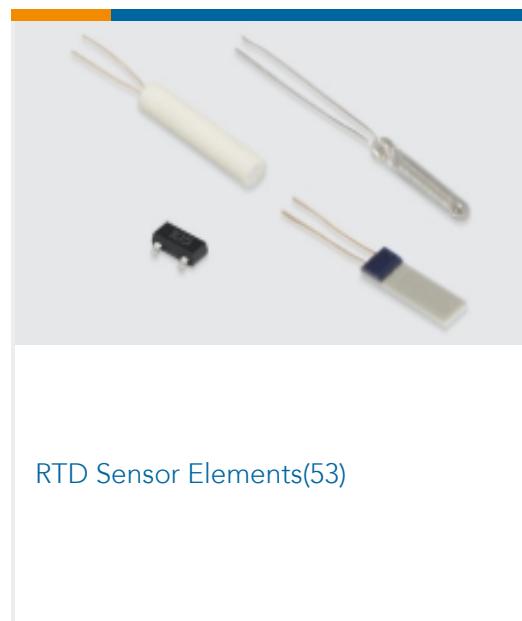
Product Compliance Disclaimer

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 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>

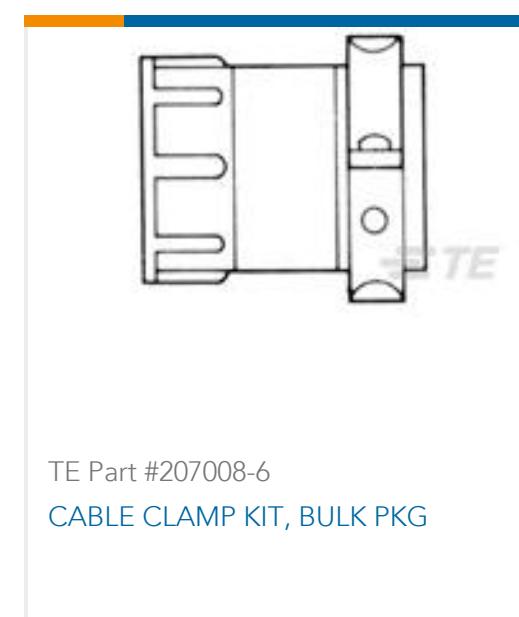
Compatible Parts



Also in the Series | MEAS PTF



Customers Also Bought



Documents

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_NB-PTCO-186_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_NB-PTCO-186_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_NB-PTCO-186_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

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

English