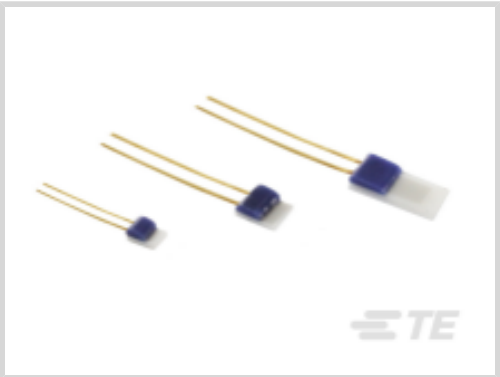




Sensors > Temperature Sensors > RTD Sensors & Probes > RTD Sensors



Sensor Type: **Platinum Thin Film Temperature Sensor**

Sensor Package: **Ceramic**

Element Material: **Platinum**

Lead Wire Style: **Ag**

Maximum Temperature: **300 °C [ 572 °F ]**

Features

Product Type Features

|                    |                                       |
|--------------------|---------------------------------------|
| Wire/Cladding Type | Ag                                    |
| Model Number       | PTFC102A1A0                           |
| Sensor Type        | Platinum Thin Film Temperature Sensor |
| 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 | .3 mm[.011 in]  |
| Length (Body) | 2.3 mm[.09 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 | -30 – 300 °C[-22 – 572 °F] |
| TCR at (T1 and T2)        | 3850 ppm/°C                |



|                      |                |
|----------------------|----------------|
| T1 and T2 for TCR    | 0 and +100 °C  |
| T_ref for Resistance | 0 °C           |
| Accuracy (at T_ref)  | ± .15 °C       |
| Maximum Temperature  | 300 °C[572 °F] |

Packaging Features

|                |         |
|----------------|---------|
| Sensor Package | Ceramic |
|----------------|---------|

Other

|                 |                 |
|-----------------|-----------------|
| Wire Count      | 2               |
| Tolerance Class | Class A / F0.15 |

Product Compliance

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

|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Not Yet Reviewed  |
| EU ELV Directive 2000/53/EC                   | Not Yet Reviewed  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                            |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2019 (197)<br>Not Yet Reviewed |
| 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.

Customers Also Bought



TE Part #2118711-2  
1 PC STD SHIELD, CRS-36.83X33.68X5.08MM

TE Part #2118726-2  
STD SHIELD FRAME, CRS-44.37X44.37X9.75MM

TE Part #8-2176088-5  
RP 1J 0.166W 6K81 0.1% 25PPM 1K RL

TE Part #2213774-1  
AV16 SPM 0.4VA FIX RING LED WHITE 12V

TE Part #1546018-4  
4 POS TERMI-BLOK PLUG 90 &180

TE Part #1735783-2  
Assembly, Slimlite SATA Plug, 15+7P, SMT

TE Part #1622682-1  
LR2 1% 12K

TE Part #NB-PTCO-321  
PTOD102BR00:PT1000,1.6 X3.2,B

TE Part #1461247-1  
OJ-SH-106LMH,000

TE Part #4-1879355-6  
RR03 5% 330K AMMO

Documents

Datasheets & Catalog Pages  
PTF-Family

English

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