

20011957-00 ✓ ACTIVE

MEAS | MEAS TSYS

TE Internal #: 20011957-00

TE Internal Description: TSYS03 TEMP SENSOR TDFN8 2.5X2.5MM

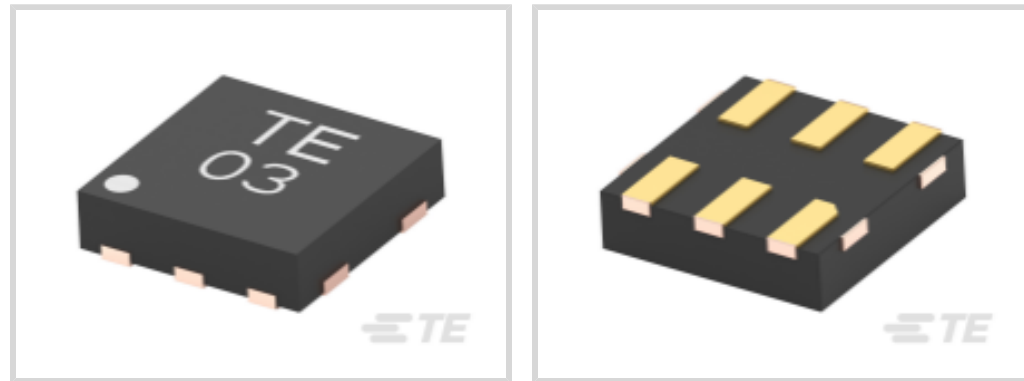
I2C

TSYS03 DIGITAL TEMPERATURE SENSOR

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Sensors > Temperature Sensors > Digital Temperature Sensors > TSYS03 DIGITAL TEMPERATURE SENSOR



Sensor Package: TDFN8

Resolution: 16 bit

Accuracy (at T\_ref):  $\pm .5$  °C

Output Interface: I2C

Supply Voltage: 2.4 – 5.5 V

[All TSYS03 DIGITAL TEMPERATURE SENSOR \(2\)](#)

## Features

### Product Type Features

Sensor Package	TDFN8
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### Configuration Features

Electrical Connection	SMD
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### Electrical Characteristics

Supply Voltage	2.4 – 5.5 V
Supply Current (Max)	400 $\mu$ A

### Dimensions

Product Length	2.5 mm[.098 in]
Product Width	2.5 mm[.098 in]
Product Height	.75 mm[.03 in]

### Usage Conditions

Accuracy T_Range	-5 – 50 °C
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
Accuracy (at T_ref)	$\pm .5$ °C

### Operation/Application

Output Interface	I2C
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### Other

Resolution	16 bit
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Not Yet Reviewed
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Not reviewed for solder process capability
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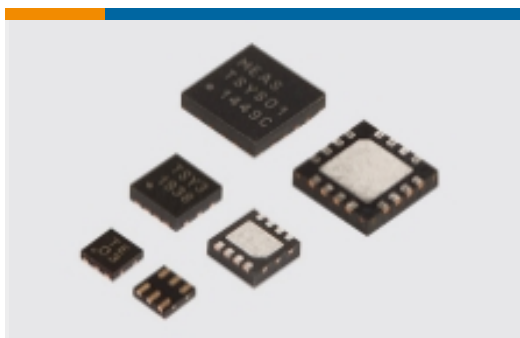
### Product Compliance Disclaimer

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 TSYS**



Digital Temperature Sensors(4)



Sensor Development Boards and Evaluation Kits(4)

### Customers Also Bought



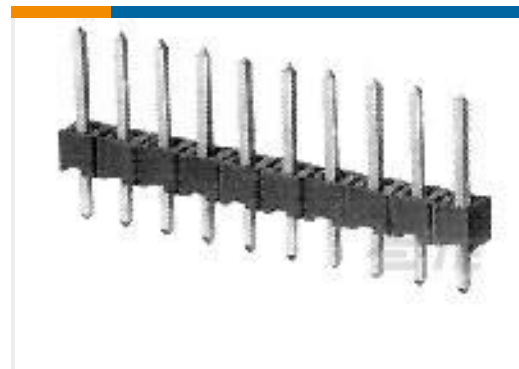
TE Part #2301826-1  
AMPL PLUG HD20, VERT, 9P, B/L,4-40  
INS



TE Part #8-2176459-2  
SMW 7W 240R 5% Taped



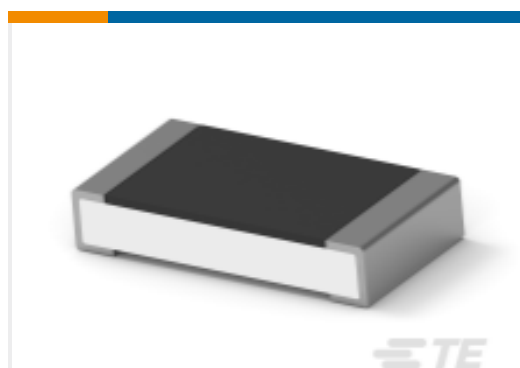
TE Part #5520258-3  
M/JTOP6P/6CPNL STOPSTRAY P



TE Part #826926-3  
3P AMPMODU II PIN HDR.



TE Part #3-2176341-1  
CRGCQ 0805 3K3 1%



TE Part #2176389-1  
RQ 1206 107R 0.1% 10PPM 5K RL



TE Part #2176391-2  
RQ 1206 12K7 0.1% 10PPM 5K RL



TE Part #8-2176554-0  
3430 A2 1% 1K8 100ppm 1k RL



TE Part #5-2176365-0  
RQ 0603 130R 0.1% 10PPM 1K RL

### Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_20011957-00\\_1.2d\\_dxf.zip](#)

[English](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_20011957-00\\_1.3d\\_igs.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_20011957-00\\_1.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

[Datasheet TSYS03](#)

English