

20011957-00 ✓ ACTIVE

MEAS | MEAS TSYS

TE Internal #: 20011957-00

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

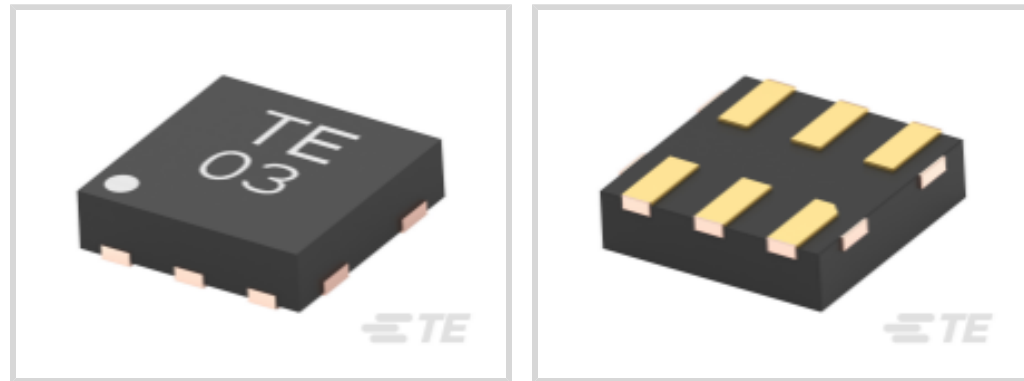
I2C

TSYS03 DIGITAL TEMPERATURE SENSOR

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



Product Width: 2.5 mm [ .098 in ]

Sensor Package: TDFN8

Resolution: 16 bit

Accuracy (at T\_ref):  $\pm .5$  °C

Output Interface: I2C

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

## Features

### Configuration Features

Electrical Connection	SMD
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### Usage Conditions

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

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

Sensor Package	TDFN8
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### Other

Resolution	16 bit
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EU RoHS Compliance	Compliant
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### Operation/Application

Output Interface	I2C
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### Electrical Characteristics

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

### 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

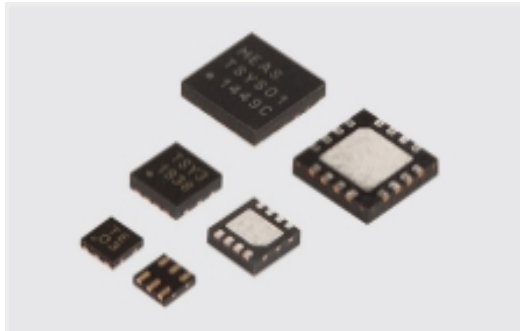
#### Product Compliance Disclaimer

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 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

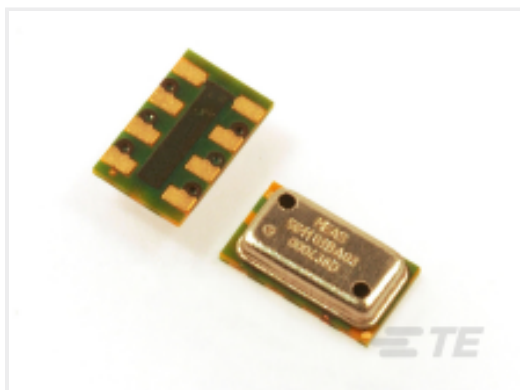


Digital Temperature Sensors(4)



Sensor Development Boards and Evaluation Kits(4)

## Customers Also Bought



TE Part #MS560702BA03-50  
MS5607-02BA SS CAP ALTIMETER T&R



TE Part #1624151-2  
23E 10KB 6.35X50FL B7 CAT



TE Part #1825232-1  
SLIDE SWITCH,SPDT,Right Angle



TE Part #1-1625958-8  
HB01RE 20M 1% 100PPM



TE Part #1676181-2  
RN 0805 13K3 0.1% 10PPM 1KRL



TE Part #1676474-2  
RN 0805 9K53 0.1% 10PPM 1KRL



TE Part #6-2176391-6  
RQ 1206 59K 0.1% 10PPM 5K RL



TE Part #1614960-6  
CPF0805 180K 0.1% 25PPM 5K RL



TE Part #51863-2  
TERMINAL PIDG R IR 22 6



TE Part #2-2176375-7  
RQ 0805 2K15 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