

20011957-01 ✓ ACTIVE

MEAS | MEAS TSYS

TE Internal #: 20011957-01

TE Internal Description: TSYS03 TEMP SENSOR XDFN6 1.5X1.5MM

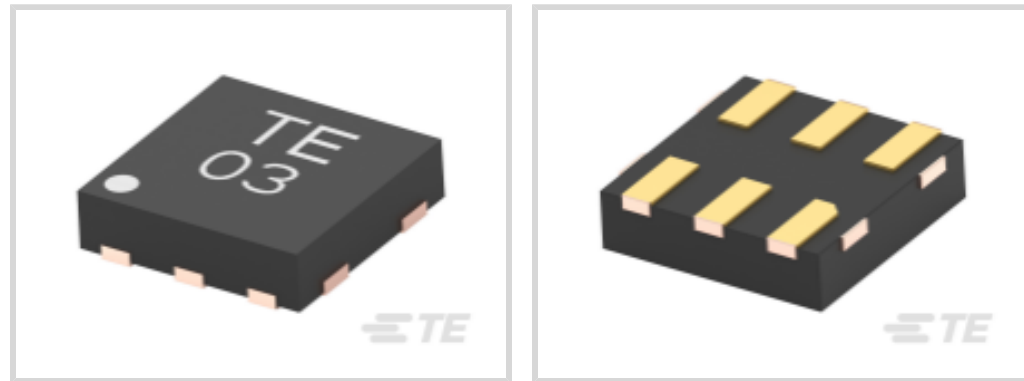
I2C

TSYS03 DIGITAL TEMPERATURE SENSOR

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



Sensor Package: XDFN6

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	XDFN6
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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	1.5 mm[.059 in]
Product Width	1.5 mm[.059 in]
Product Height	.38 mm[.015 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: JUNE 2024 (241) 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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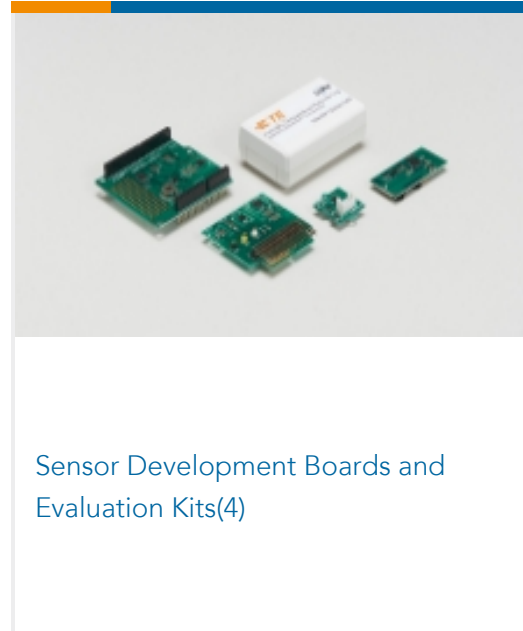
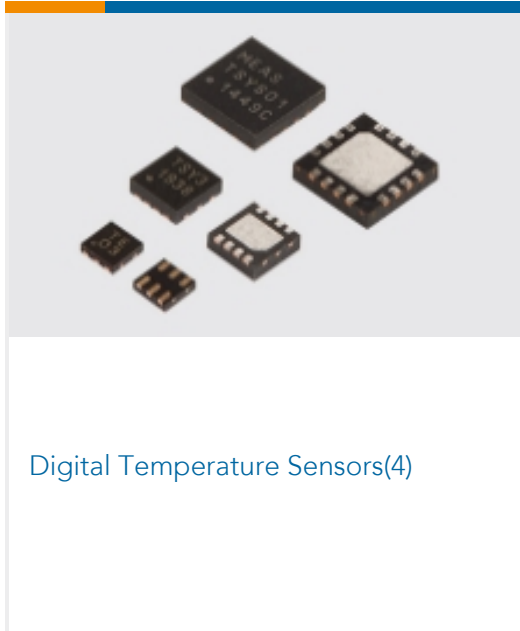
#### Product Compliance Disclaimer

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 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.

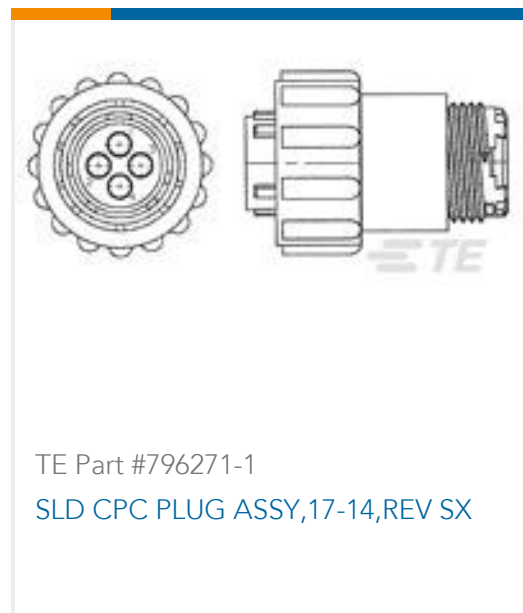
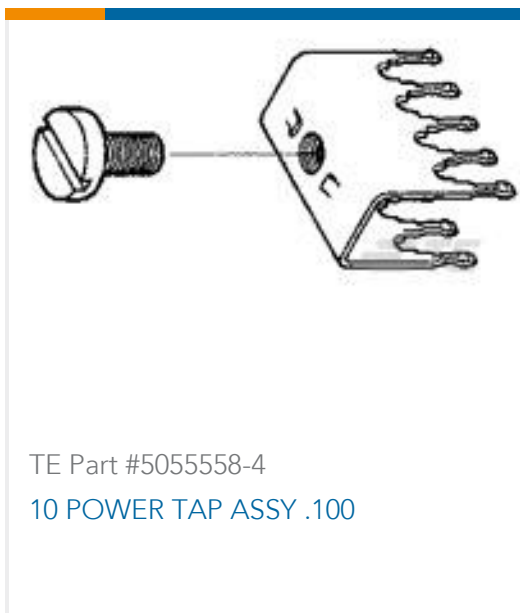
## Compatible Parts



### Also in the Series | MEAS TSYS



### Customers Also Bought





## Documents

### CAD Files

#### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_20011957-01\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_20011957-01\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_20011957-01\\_1.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

#### Datasheet TSYS03

English