

20011957-01 ✓ ACTIVE

MEAS | MEAS TSYS

TE Internal #: 20011957-01

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

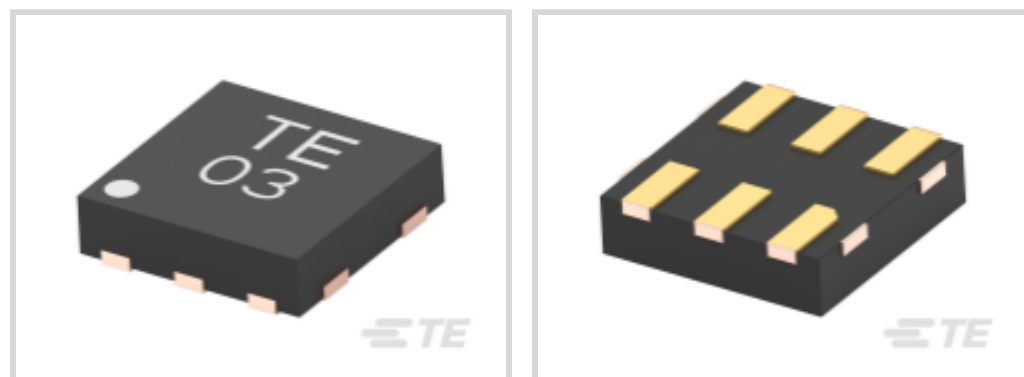
I2C

TSYS03 DIGITAL TEMPERATURE SENSOR

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Model Number: **TSYS03-1**

Digital Temperature Sensor Type: **Digital IC Temperature Sensor**

Digital Temperature Sensor Package: **XDFN6**

Output/Span Resolution: **16 bit**

Temperature Sensor Accuracy: **± .5 °C**

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

Features

Product Type Features

Model Number	TSYS03-1
Digital Temperature Sensor Type	Digital IC Temperature Sensor

Electrical Characteristics

Digital Temperature Sensor Supply Voltage	2.4 – 5.5 V
Supply Current (Max)	400 μ A

Termination Features

Wire/Cladding/Connection	SMD
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Dimensions

Digital Temperature Sensor Length	.059 in
Digital Temperature Sensor Length	1.5 mm[.059 in]
Digital Temperature Sensor Width	1.5 mm
Digital Temperature Sensor Height	.38 mm[.015 in]

Usage Conditions

Accuracy T_Range	-5 – 50 °C
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]



Operation/Application

Output/Span Resolution	16 bit
Temperature Sensor Accuracy	± .5 °C
Output Interface	I2C

Packaging Features

Digital Temperature Sensor Package	XDFN6
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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 2023 (235) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

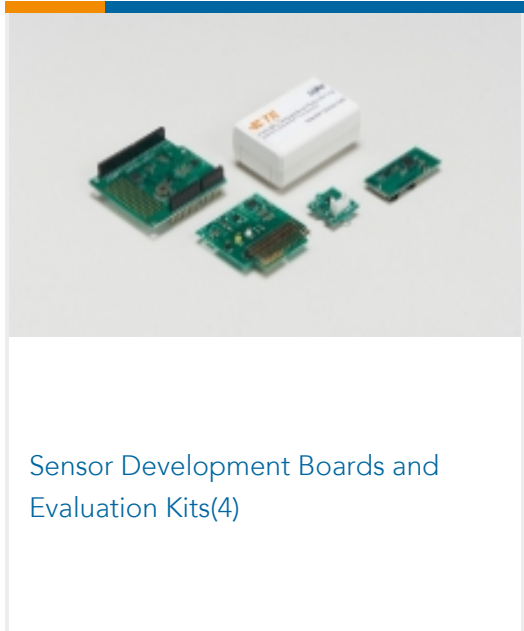
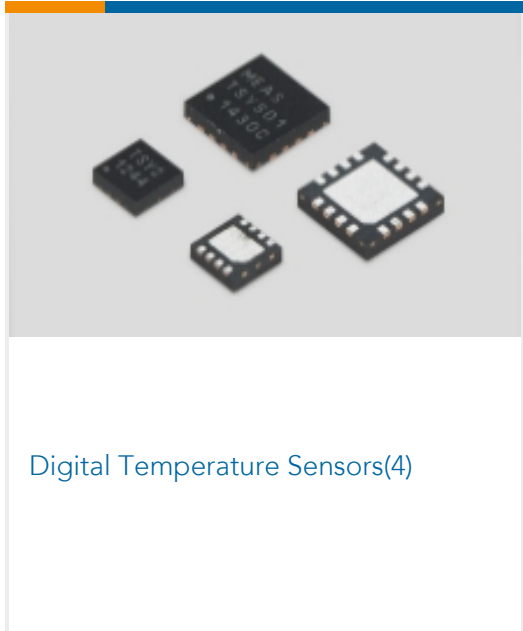
Product Compliance Disclaimer

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.

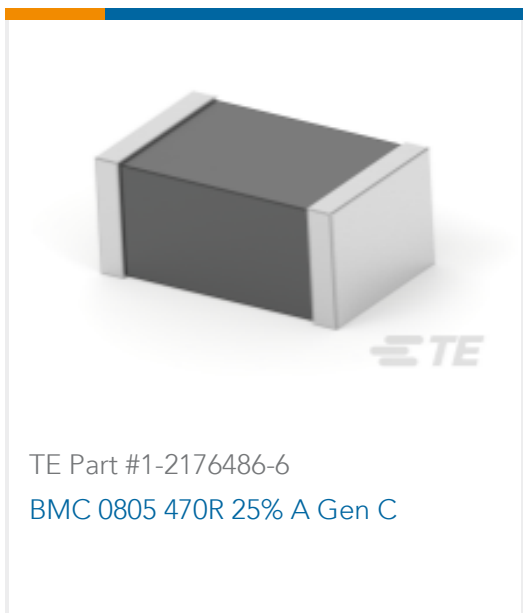
Compatible Parts



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