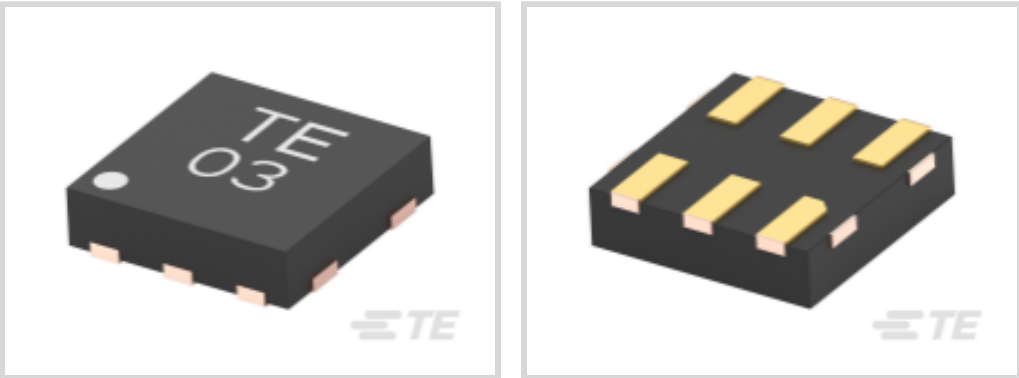




Sensors > Temperature Sensors > Digital Temperature Sensors > TSYS03 DIGITAL TEMPERATURE SENSOR



Product Width: 2.5 mm [.098 in]

Sensor Package: TDFN8

Resolution: 16 bit

Accuracy (at T_ref): ± .5 °C

Output Interface: I2C

[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 µA

Dimensions

Product Width	2.5 mm[.098 in]
Product Length	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)	± .5 °C

Operation/Application

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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
EU ELV Directive 2000/53/EC	Out of Scope
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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

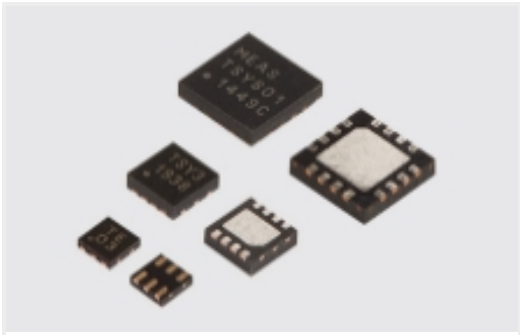


TE Part # 20011957-01

TSYS03 TEMP SENSOR XDFN6 1.5X1.5MM I2C



Also in the Series | MEAS TSYS



Digital Temperature Sensors(4)

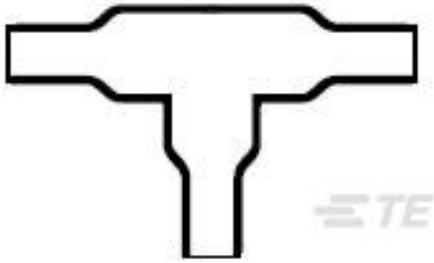


Sensor Development Boards and Evaluation Kits(2)

Customers Also Bought



TE Part #316052-000
55A1121-20-9/96-9



TE Part #820059-000
301A022-25-0



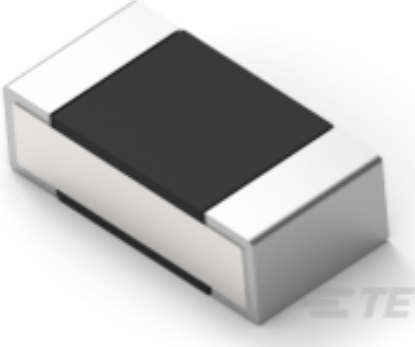
TE Part #8-1419128-1
OJ-SH-105LMH,000



TE Part #6-1879215-3
CPF 0402 20K5 0.1% 25PPM 1K RL



TE Part #1-2176088-4
RP 1J 0.166W 1K02 0.1% 25PPM 1K RL



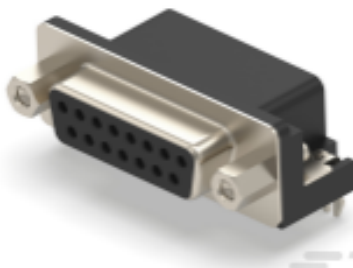
TE Part #2-2176308-6
RP 1E 0.1W 243K 0.1% 25PPM 5K RL



TE Part #1-2176331-1
CRGP 2512 68R 1%



TE Part #4-2176455-3
CPF 0402 301K 0.1% 25ppm 1K RL



TE Part #2301845-2
AMPL REC HD20, R/A, 15P, B/L,4-40 A /LOCK



TE Part #1-1904045-1
V23333Z0001A007-EV-100

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

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Datasheet TSYS03](#)

English