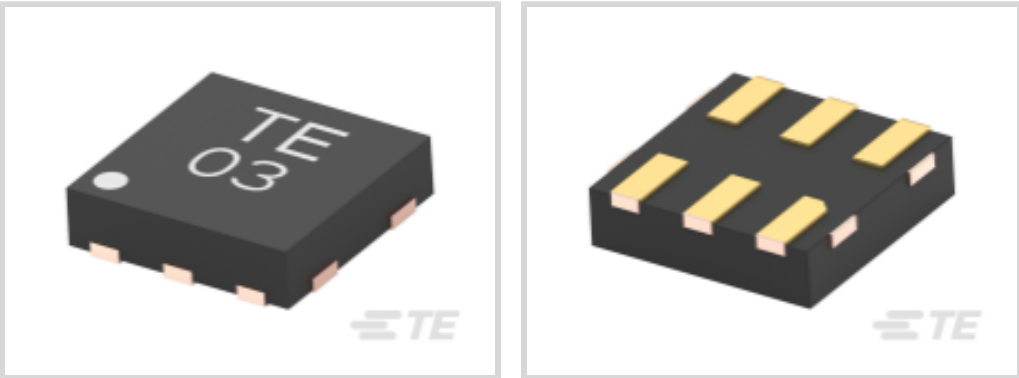




Sensors > Temperature Sensors > Digital Temperature Sensors > TSYS03 DIGITAL TEMPERATURE SENSOR



Sensor Package: TDFN8

Resolution: 16 bit

Accuracy (at T_ref): ± .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 µA

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)	± .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	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: JAN 2024 (240) 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

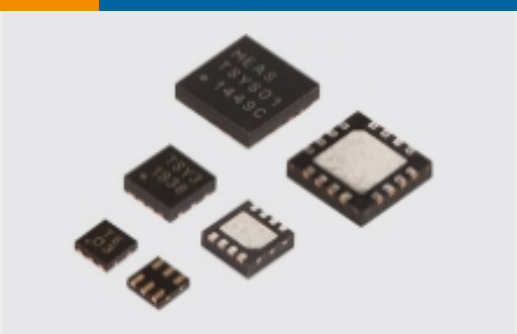
Product Compliance Disclaimer

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)

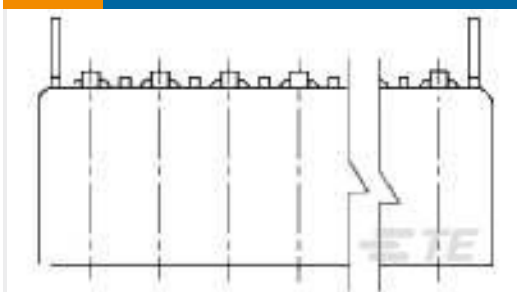
Customers Also Bought



TE Part #173977-4
CT CONN MT REC ASSY 4P



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



TE Part #5-487508-6
TRIOMATE ASY H 7P L=3.175,LDFR



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



TE Part #2007464-2
SFP+ 1x1 Cage Assy, PF,with Heatsink



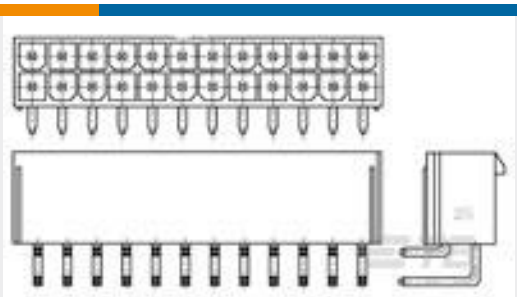
TE Part #7-2176088-7
RP 1J 0.166W 5K62 0.1% 25PPM 1K RL



TE Part #9-2176088-1
RP 1J 0.166W 7K87 0.1% 25PPM 1K RL



TE Part #1744057-5
3.96 EP HDR ASSY 5P W/PEGS



TE Part #1586863-6
6P VAL-U-LOK R/A HDR GW



TE Part #2195889-1
Terminal Ant, 5G, SMA, 600-6000MHz

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