



Sensors > Temperature Sensors > Digital Temperature Sensors



Model Number: **TSYS02D**

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

Digital Temperature Sensor Package: **TDFN8**

Output/Span Resolution: **16 bit**

Digital Temperature Sensor Accuracy: **± .2 °C**

Features

Product Type Features

Model Number	TSYS02D
Digital Temperature Sensor Type	Digital IC Temperature Sensor

Electrical Characteristics

Digital Temperature Sensor Supply Voltage	2.2 – 3.6 V
Supply Current (Max)	18 µA

Termination Features

Wire/Cladding/Connection	SMD
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Dimensions

Digital Temperature Sensor Thickness	.098 in
Digital Temperature Sensor Length	2.5 mm[.098 in]
Digital Temperature Sensor Width	2.5 mm
Digital Temperature Sensor Height	.75 mm[.029 in]

Usage Conditions

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

Operation/Application

Output/Span Resolution	16 bit
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Digital Temperature Sensor Accuracy ± .2 °C

Output Interface I2C

Packaging Features

Digital Temperature Sensor Package TDFN8

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: JAN 2021 (211)
 Candidate List Declared Against: JAN 2021 (211)
 Does not contain REACH SVHC

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 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 # G-NIMO-005
0.2 DEG C ACCURACY I2C TEMP SENSOR



TE Part # 10207298-00
0.8 DEG C ACCURACY I2C TEMP SENSOR



TE Part # 10208995-00
0.4 DEG C ACCURACY I2C TEMP SENSOR



TE Part # 10208996-00
1.2 DEG C ACCURACY I2C TEMP SENSOR




TE Part # 10212113-00
0.5 DEG C ACCURACY I2C TEMP SENSOR

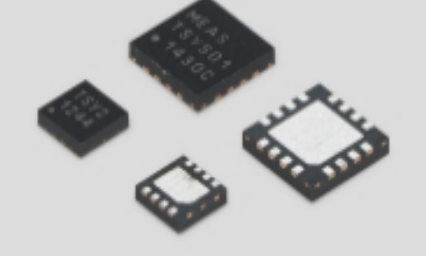


TE Part # G-NIMO-004
0.2 DEG C ACCURACY PWM TEMP SENSOR

Also in the Series | MEAS TSYS



Digital Component Sensors(4)



Digital Temperature Sensors(10)

Customers Also Bought



TE Part #1623781-7
Wirewound Resistor: Vertical Mount



TE Part #1617037-7
HFW5A1201G00 = HFW 5AMP RELAY



TE Part #1658621-2
14 NOVO MIL/CTR 15DP, LEAD FREE



TE Part #9-1879208-1
CPF 0402 56K 0.1% 25PPM 1K RL



TE Part #1-2176093-6
RP 2A 0.25W 13K7 0.1% 25PPM 1K RL



TE Part #1624256-1
SL1 R033 5% TAPED



TE Part #1-770872-1
02P MINI UMNL HDR ASSY AU LF



TE Part #1437653-7
6PCV-07-006=6PCV ASSEMBLY



TE Part #1393481-6
V23529B1225C225=SUB D STIFTL



TE Part #1-1624116-0
BMB-B 0603 420R



Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_G-NIMO-003_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_G-NIMO-003_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_G-NIMO-003_1.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

TSYS02-FAMILY

English