

1.2 DEG C ACCURACY I2C TEMP SENSOR

✓ ACTIVE

MEAS | MEAS TSYS

TE Part # 10208996-00

TE Internal #: G-NIMO-015

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Sensors > Temperature Sensors > Digital Temperature Sensors



Width: 2.5 mm [ .098 in ]

Model Number: TSYS02-12D

Sensor Type: Digital IC Temperature Sensor

Package: TDFN8

Output/Span Resolution: 16 bit

Features

Product Type Features

Model Number	TSYS02-12D
Sensor Type	Digital IC Temperature Sensor

Electrical Characteristics

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

Termination Features

Wire/Cladding/Connection	SMD
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Dimensions

Width	2.5 mm[.098 in]
Length	2.5 mm[.098 in]
Height	.75 mm[.029 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
Accuracy	± 1.3 °C
Output Interface	I2C



Packaging Features

Package	TDFN8
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Product Compliance

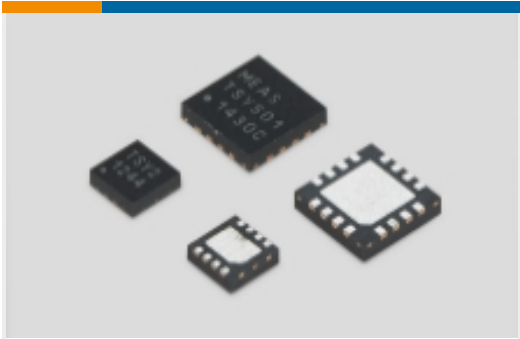
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
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 2019 (197) Candidate List Declared Against: JUL 2017 (174)
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.

Also in the Series | MEAS TSYS



Digital Temperature Sensors(9)

Customers Also Bought

1.2 DEG C ACCURACY I2C TEMP SENSOR

TE Part # 10208996-00  
TE Internal #: G-NIMO-015



TE Part #2-1470108-6  
2.0MM PITCH HEADER,  
DIP 26P

TE Part #2-1879623-0  
H4 680R 0.1% 15PPM

TE Part #1589057-3  
QCM019PC2DC003 =  
CIRCULAR

TE Part #103165-3  
14 MODII HDR DRRA 3  
/4SHRD .100

TE Part #146510-3  
06 MODII HDR DRST  
UNSHRD STKG

TE Part #2170707-1  
CAGE ASSY, 1X6, QSFP28,  
SPRING, HS

TE Part #3-647295-4  
04P MTA100 HI-TEMP  
HDR SN TL

TE Part #  
ZPF000000000008142  
983-6K 18-31 PN

TE Part #6-1879681-9  
H4 681K 0.1% 50PPM

Documents

Datasheets & Catalog Pages  
TSYS02-12D  
English