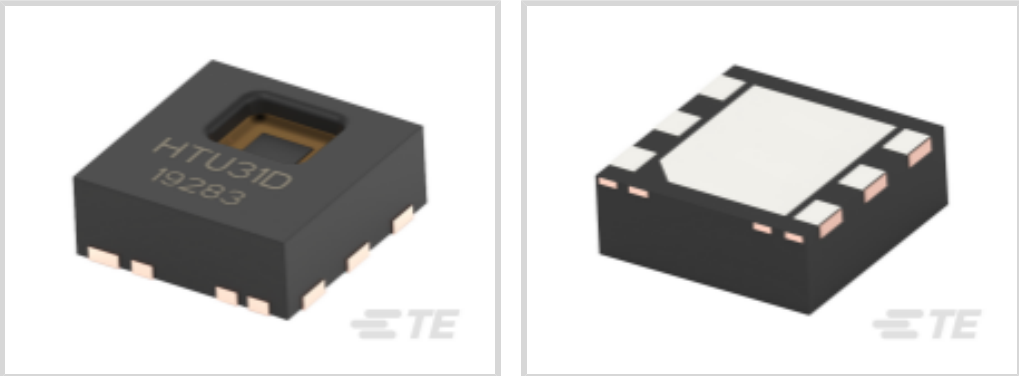




Sensors > Humidity Sensors > HTU31 Humidity and Temperature Combination Sensor



Operating Temperature Range: -40 – 125 °C [-40 – 257 °F]

Humidity Sensor Product Type: RHT

Supply Voltage (Peak): 5.5 VDC

Accuracy: ±2 %RH

Current Consumption: 1 mA

[All HTU31 Humidity and Temperature Combination Sensor \(9\)](#)

Features

Product Type Features

Humidity Sensor Product Type	RHT
Interface Signal Type	Digital

Electrical Characteristics

ESD Robustness	± 8 kV
Supply Voltage (Peak)	5.5 VDC
Current Consumption	1 mA

Usage Conditions

Humidity Operating Range	0 – 100 %RH
Temperature Accuracy	± .2 °C
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
Accuracy	±2 %RH

Other

Response Time	3 seconds
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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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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

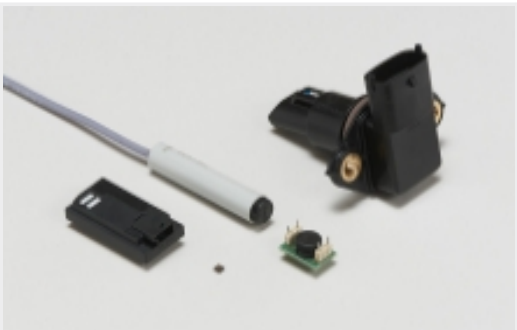
Product Compliance Disclaimer

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 HTU



Humidity Sensors(30)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought



TE Part #NB16092001
RT-375-3/64-X-STK



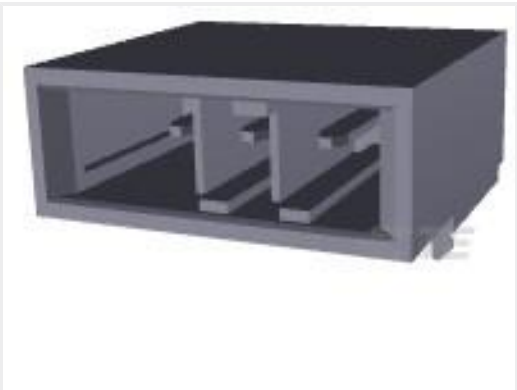
TE Part #10205441-04
U7132-050PG-QW0000



TE Part #20026498-00
NTC,10K ,SS HEX HSG,TEMP,SENSOR



TE Part #1-178137-3
DYNAMIC D3100 HDR H 6P ASSY



TE Part #1-178138-3
DYNAMIC 3200 HDR H 3P ASSY



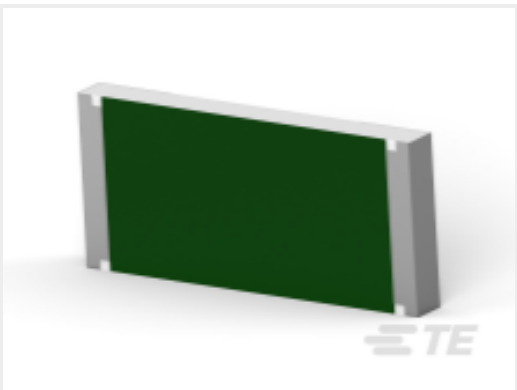
TE Part #726387-2
250 FASTON TAB TPBR



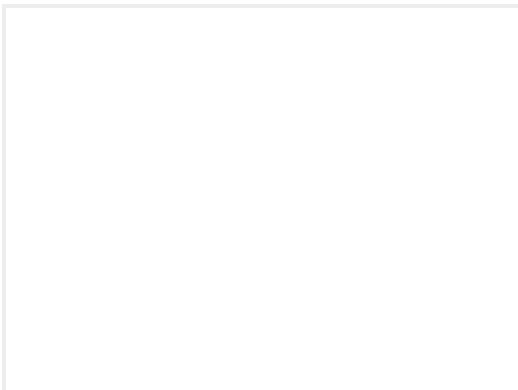
TE Part #1-2176070-0
3521 24R 1% 2W



TE Part #1-2176230-1
3522 5R6 5% 3W



TE Part #8-2176404-3
3550 10R 5%



TE Part #10103120-00
NTC TEMPERATURE SENSOR

Documents

3D PDF

3D

Customer View Model

ENG_CVM_CVM_10142048-20_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_10142048-20_A.3d_igs.zip

English



Customer View Model

[ENG_CVM_CVM_10142048-20_A.3d_stp.zip](#)

English

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

HTU31 RHT SENSOR IC Data sheet

English