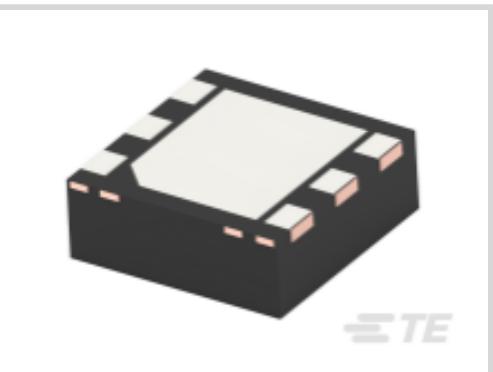


Sensors > Humidity Sensors > Humidity Sensor Components



Humidity Sensor Component Product Type: **RHT**

Supply Voltage (Peak): **5.5 V**

Current Consumption: **1 mA**

Humidity Operating Range: **0 – 100 %RH**

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

Features

Product Type Features

| | |
|--|------------|
| Humidity Accuracy | $\pm 2 \%$ |
| Humidity Sensor Component Product Type | RHT |
| Humidity Sensor Component Sensor Type | Digital |

Electrical Characteristics

| | |
|-----------------------|--------------------|
| ESD Robustness | $\pm 8 \text{ kV}$ |
| Supply Voltage (Peak) | 5.5 V |
| Current Consumption | 1 mA |

Usage Conditions

| | |
|-----------------------------|-----------------------------------|
| Humidity Operating Range | 0 – 100 %RH |
| Operating Temperature Range | -40 – 257 °C [-40 – 257 °F] |
| Temperature Accuracy | $\pm .2 \text{ }^{\circ}\text{C}$ |

Other

| | |
|---------------|-----------|
| Response Time | 3 seconds |
|---------------|-----------|

Product Compliance

[For compliance documentation, visit the product page on TE.com >](#)

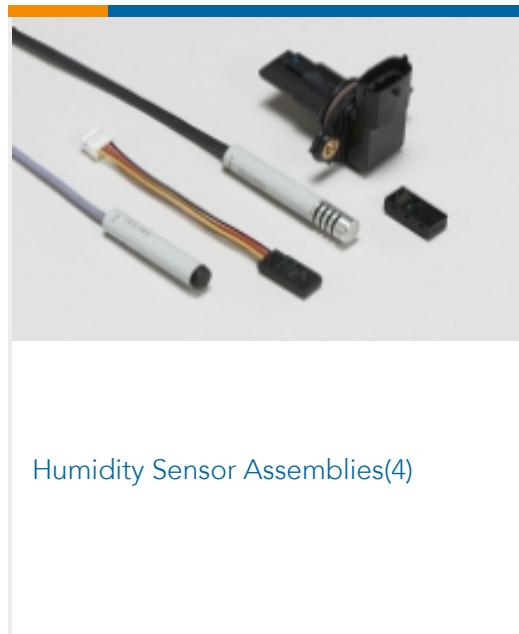
| | |
|------------------------------|--------------|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Out of Scope |

| | |
|---|--|
| 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: JUNE 2023 (235) 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>

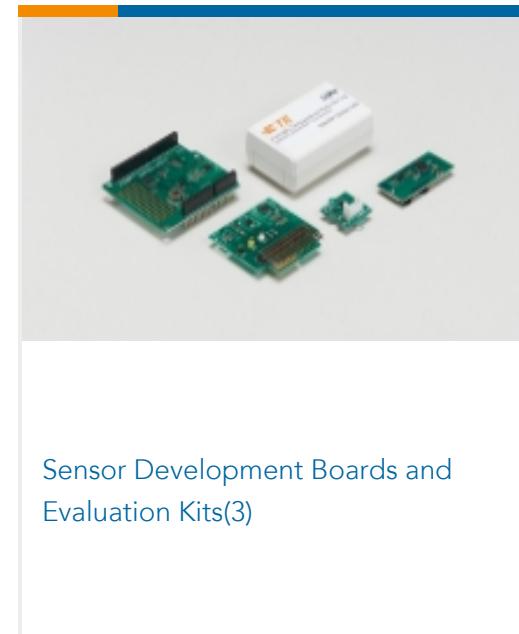
Also in the Series | MEAS HTU



Humidity Sensor Assemblies(4)



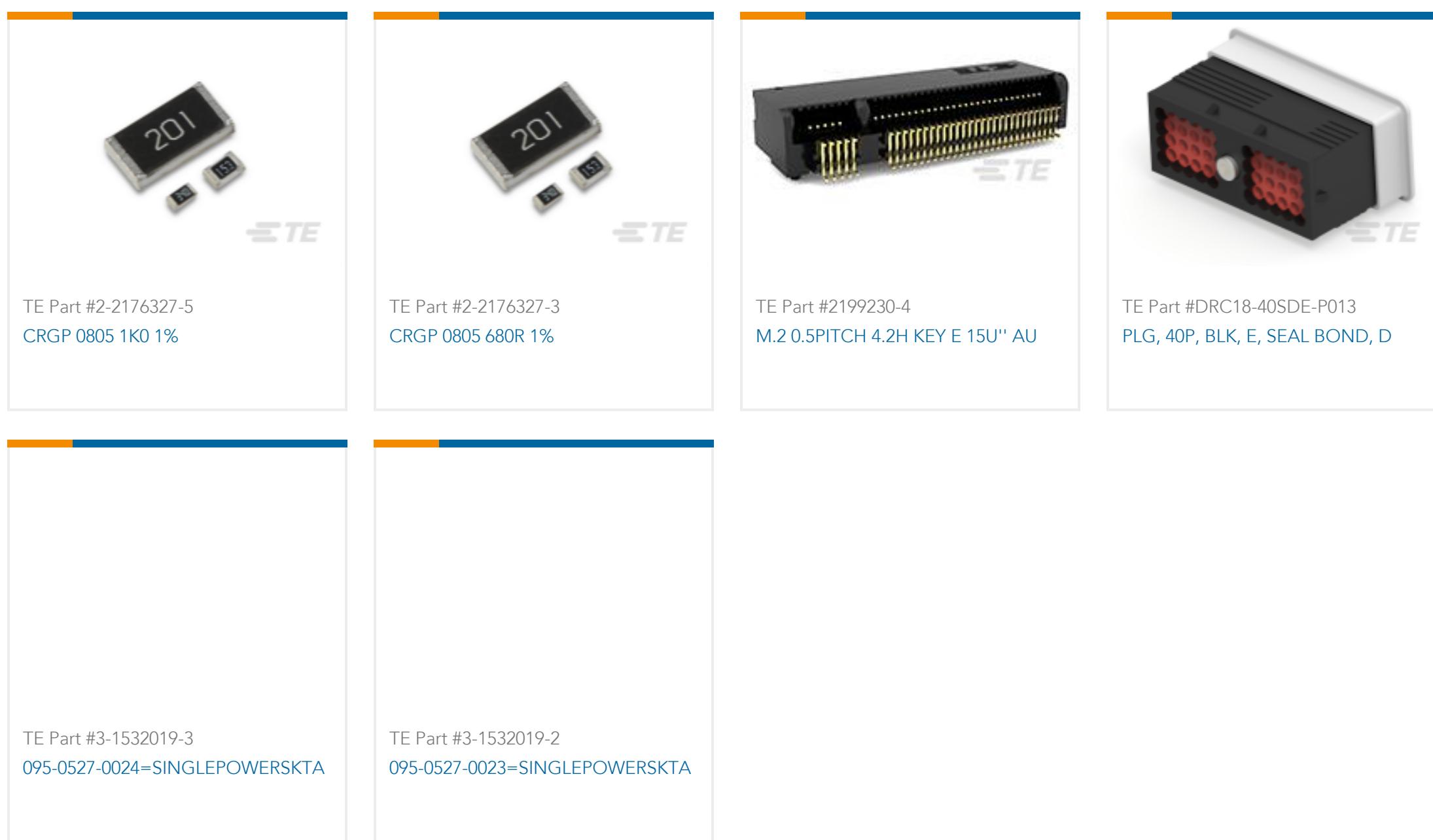
Humidity Sensor Components(22)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought

TE Part #6469169-1
HMZD 2PR RA HDR 40PTE Part #826936-4
4P AMPMODU II STIFT LEITE Part #3-794618-8
08P MICRO MNL ASSY R/A HDR LFTE Part #2-2176341-7
CRGCQ 0805 1K5 1%



Documents

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_10142048-00_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_10142048-00_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_10142048-00_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[HTU31 RHT SENSOR IC Data sheet](#)

English