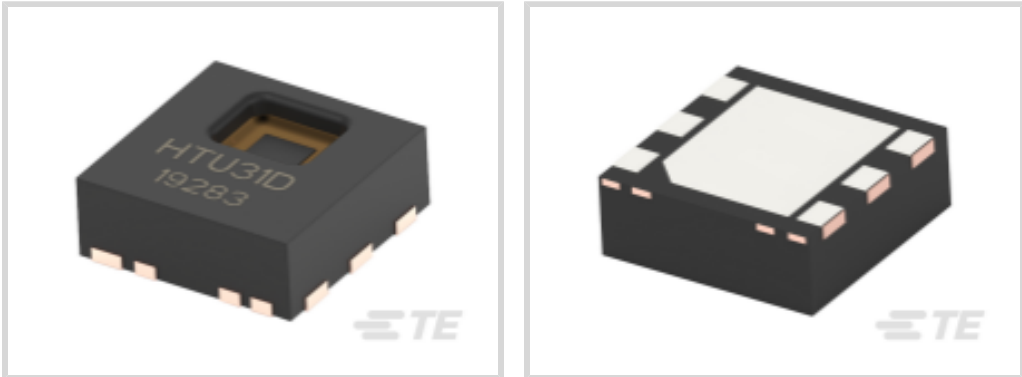




Sensors > Humidity Sensors > Humidity Sensor Components



Humidity Sensor Component Product Type: RHT  
Supply Voltage (Peak): 5.5 V  
Current Consumption: 161 mA  
Humidity Operating Range: 0 – 100 %RH  
Operating Temperature Range: -40 – 257 °C [ -40 – 257 °F ]

Features

Product Type Features

|                                        |        |
|----------------------------------------|--------|
| Humidity Accuracy                      | ± 2 %  |
| Humidity Sensor Component Product Type | RHT    |
| Humidity Sensor Component Sensor Type  | Analog |

Electrical Characteristics

|                       |        |
|-----------------------|--------|
| ESD Robustness        | ± 8 kV |
| Supply Voltage (Peak) | 5.5 V  |
| Current Consumption   | 161 mA |

Usage Conditions

|                             |                             |
|-----------------------------|-----------------------------|
| Humidity Operating Range    | 0 – 100 %RH                 |
| Operating Temperature Range | -40 – 257 °C[ -40 – 257 °F] |
| Temperature Accuracy        | ± .2 °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)<br>Not Yet Reviewed |
| Halogen Content                               | Not Yet Reviewed for halogen content                             |
| Solder Process Capability                     | Not reviewed for solder process capability                       |

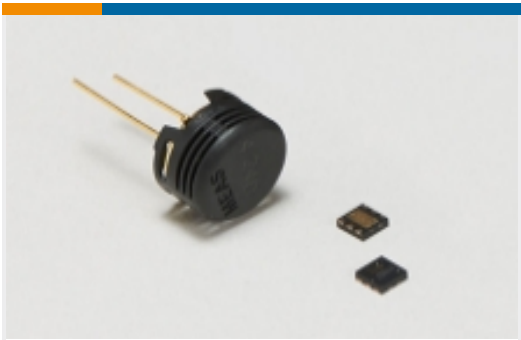
Product Compliance Disclaimer

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)

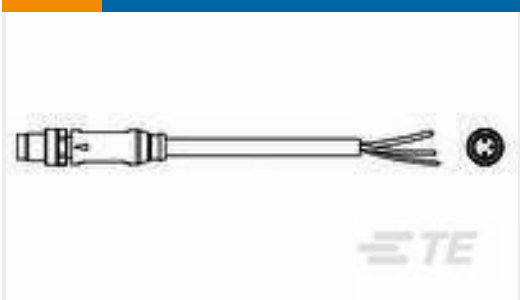


Humidity Sensor Components(18)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought



TE Part #2273004-1  
M8 x 1.0 straight plug Pigtail Shld



TE Part #5179229-4  
0.8FH,R05H.5,100,08/Sn,TU,SC



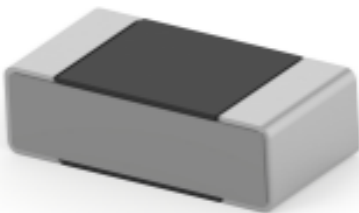
TE Part #3-640432-2  
02P MTA156 CONN ASSY 20AWG YEL



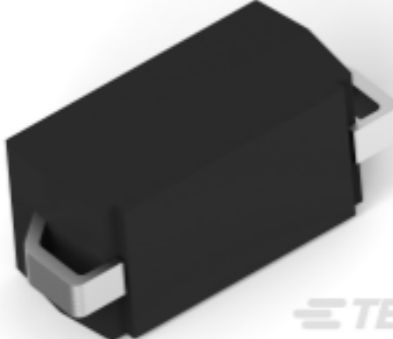
TE Part #2-6609037-4  
7EP1=F8215



TE Part #1-1879352-7  
RR02 5% 1R5 AMMO



TE Part #2176263-6  
RN 0402 27K4 0.1% 10PPM 5K RL



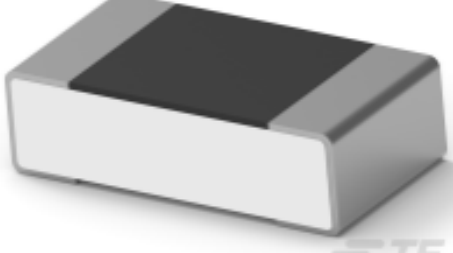
TE Part #2-2176324-1  
SMV 3W 4M7 5%



TE Part #HPP845E134  
HTU20DF RH/T SENSOR W.FILTER



TE Part #2-1734506-9  
RCPT, 2.0MM, 12P,VRT MT, 8 Au", 2.6 ST



TE Part #7-2176366-1  
RQ 0603 2K32 0.1% 10PPM 1K RL

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_10142048-11\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_10142048-11\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_10142048-11\_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