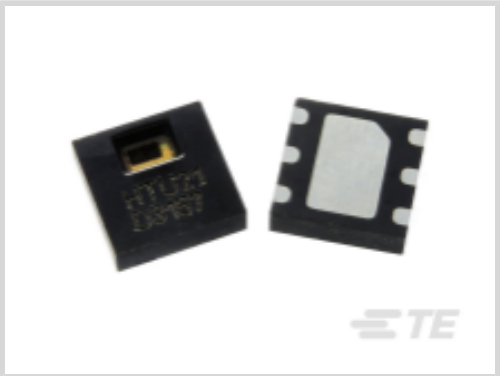




Sensors > Humidity Sensors > HTU21D Digital High Accuracy RH/T Sensor



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

Humidity Sensor Product Type: RH Temperature Module

Supply Voltage (Peak): 3.8 VDC

Current Consumption: .014 mA

Interface Signal Type: Digital

[All HTU21D Digital High Accuracy RH/T Sensor \(6\)](#)

Features

Product Type Features

|                              |                       |
|------------------------------|-----------------------|
| Humidity Sensor Product Type | RH Temperature Module |
| Interface Signal Type        | Digital               |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Supply Voltage (Peak) | 3.8 VDC |
| Current Consumption   | .014 mA |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Humidity Operating Range    | 0 – 100 %RH                |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)            |



Candidate List Declared Against: JAN 2025  
(247)  
SVHC > Threshold:  
DMF (1% in Component Part)

**Article Safe Usage Statements:**  
Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Halogen Content           | Low Bromine/Chlorine - Br and Cl < 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



TE Part # CAT-HSC0004  
HTU21D Digital High Accuracy RH/T Sensor



TE Part # HPP845E132R4  
I.C 21PF RH/T PWM B400

Also in the Series | MEAS HTU



Automotive Humidity Sensors(2)



Humidity Sensors(30)



Relative Humidity (RH) Sensors(30)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought



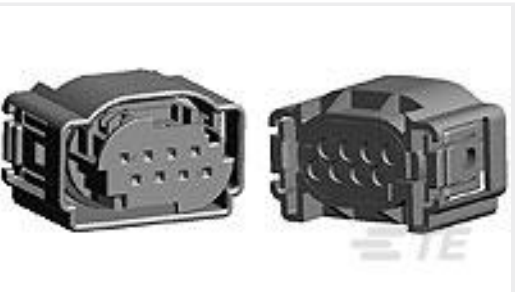
TE Part #ANT-868-CHP-T  
Antenna Chip T&R 868MHz SMT



TE Part #5-534206-3  
06 MODII VRT DR CE 100/115



TE Part #828102-1  
HD-20SCHRAUB-SICHRG



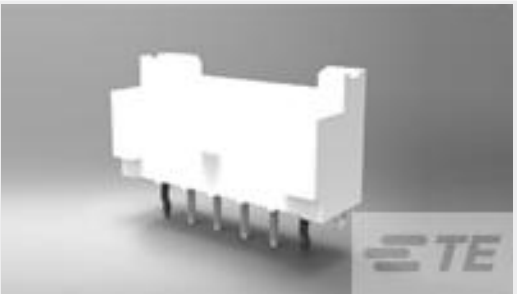
TE Part #1-1534229-1  
8POS MQS REC COD A



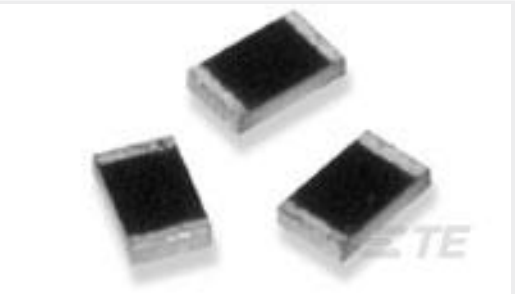
TE Part #1614896-1  
CPF0805 150K 0.1% 25PPM 1K RL



TE Part #5-1676480-6  
CRG0402 1% 390R



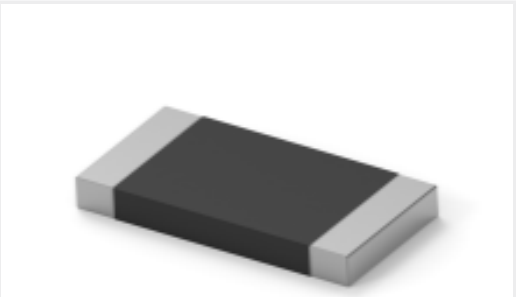
TE Part #2-1744418-0  
20 POS EP 2.5 HDR, GLOW WIRE



TE Part #3-1879256-7  
RP 2B 150R 0.1% 15PPM CUT LENGTH



TE Part #2007492-8  
SFP+assy2x1 Spring Fingers No Lp Sn



TE Part #8-2176421-7  
TLRP 2512 2.0W R050 1% 75PPM 4K RL

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_HPP845E131R4\_C.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_HPP845E131R4\_C.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_HPP845E131R4\_C.3d\_stp.zip

English

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

Datasheets & Catalog Pages

HTU21D

English

HTU21A(F) data sheet

English

