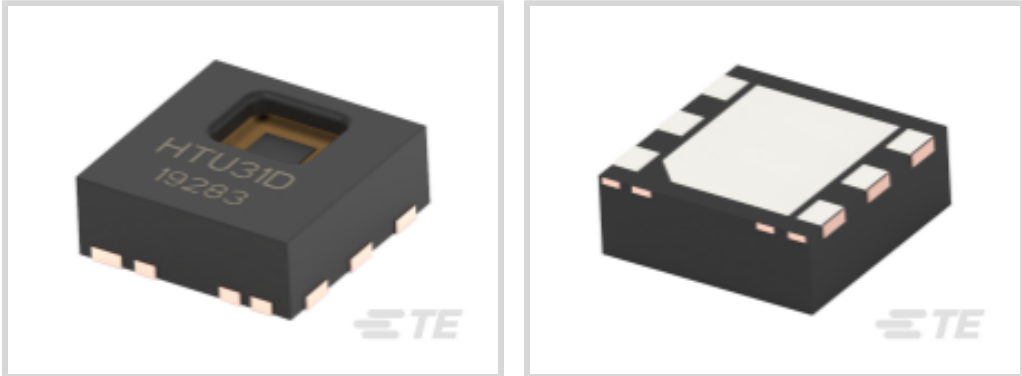




Sensors > Humidity Sensors > Humidity Sensor Components > HTU31 Humidity and Temperature Combination Sensor



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

Humidity Sensor Product Type: RHT

Supply Voltage (Peak): 5.5 V

Current Consumption: 161 mA

Interface Signal Type: Analog

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

Features

Other

Response Time	3 seconds
EU RoHS Compliance	Compliant

Electrical Characteristics

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

Product Type Features

Accuracy	±2 %
Humidity Sensor Product Type	RHT
Interface Signal Type	Analog

Usage Conditions

Humidity Operating Range	0 – 100 %RH
Temperature Accuracy	± .2 °C
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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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>

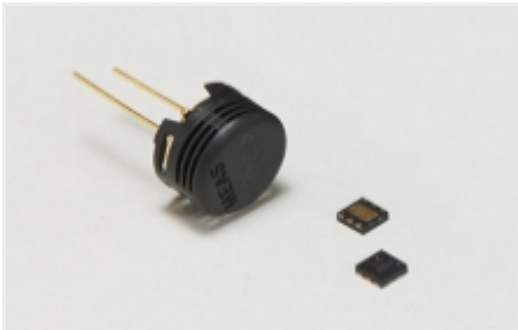
Compatible Parts



Also in the Series | MEAS HTU



Humidity Sensor Assemblies(4)

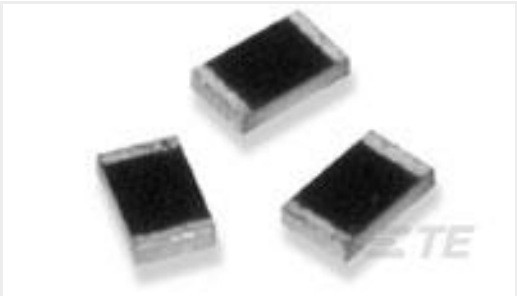


Humidity Sensor Components(20)



Sensor Development Boards and Evaluation Kits(3)

Customers Also Bought



TE Part #4-1879267-9
RP 2B 1M0 0.1% 15PPM CUT LENGT



TE Part #6-1879214-1
CPF 0402 1K54 0.1% 25PPM 1K RL



TE Part #9-1614882-7
CPF 0603 18R 0.1% 25PPM 1K RL



TE Part #2118725-2
STD SHIELD COVER, CRS-44.97X44.97X2.00MM



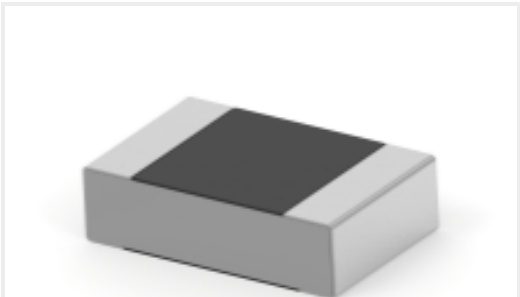
TE Part #CONMMCX012-R178
MMCX Jack 50 Ohm Cable Crimp



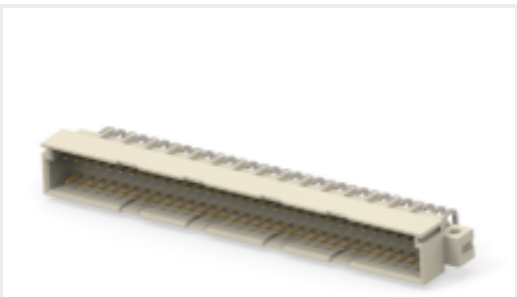
TE Part #5-1623932-8
CFR50 5% 220R



TE Part #1337771-8
50 OHM COAX BNC STR PLUG P99-E



TE Part #1614883-9
CPF0805 200K 0.1% 25PPM 5K RL



TE Part #364914-E
STVC 64 M AC VV 4-00 0606 * * 247 E007 1



TE Part #FG24008
OMNI,FG,2400-2485MHZ 2442.5MHz, 6dBd

Documents

Datasheets & Catalog Pages

HTU31 RHT SENSOR IC Data sheet

English