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Humidity Sensor Assembly Product Type: RHT

Supply Voltage (Peak): 20 VDC

Operating Temperature Range: -40 – 110 °C [-40 – 230 °F]

Humidity Measuring Range: 0 – 100 %RH

Humidity Sensor Assembly Accuracy: ±3 %RH

[All Humidity and NTC Temperature Sensor \(3\)](#)

Features

Product Type Features

Humidity Sensor Assembly Product Type	RHT
Humidity Sensor Assembly Sensor Type	Analog

Electrical Characteristics

Nominal Resistance Tolerance @25°C	1 %
Nominal Resistance @25°C	10 kΩ
Supply Voltage (Peak)	20 VDC
Nominal Output @55%RH (at 5 VDC)	2.48 V
Current Consumption	1.2 mA
Output Impedance	50 Ω

Usage Conditions

Operating Temperature Range	-40 – 110 °C [-40 – 230 °F]
Humidity Measuring Range	0 – 100 %RH
Humidity Sensor Assembly Accuracy	±3 %RH
Temperature Coefficient	-.05 %RH/°C
Sensitivity	26 mV/%RH

Other

β -Value B25/50	3380 K
Response Time	10 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	Compliant
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 2022 (224) Candidate List Declared Against: JUL 2021 (219) 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>

Compatible Parts



Also in the Series | [MEAS HTG3500](#)



Humidity Sensor Assemblies(3)

Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_HPP815F535_D3.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_HPP815F535_D3.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_HPP815F535_D3.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

Data sheet HTG3500

English