











HYT 271

Digital Humidity and Temperature Module

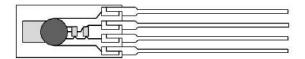
Optimal for all general purpose humidity applications



Benefits & Characteristics

- Fast response time
- High chemical resistance
- Very low drift
- Very stable at high humidity
- Excellent humidity/temperature accuracy and stability
- Wide humidity and temperature range
- I²C protocol (address 0x28 or alternative address)
- Interchangeable without adjustments

Illustration¹⁾





1) For actual size, see mechanical dimensions

Technical Data

Operating temperature range:	-40 °C to +125 °C
Operating humidity range:	0 % RH to 100 % RH
Hysteresis:	< ±1 % RH
Linearity error:	< ±1 % RH
Temperature error:	0.05 % RH/K (0 °C to +60 °C)
Operating voltage:	2.7 V to 5.5 V
Current consumption (nominal):	< 22 μA at 1 Hz measuring rate; 850 μA max.
Current consumption (sleep):	< 1 μΑ
Digital interface:	I ² C, address 0x28 or alternative address
Operating voltage (limits):	-0.3 V to 6 V
Storage conditions:	-20 °C to +50 °C

	Humidity	Temperature
Accuracy :	±1.8 % RH at +23 °C (0 % RH to 90 % RH)	±0.2 K (0 °C to +60 °C)
Reproducibility:	±0.2 % RH	±0.1 K
Resolution:	0.03 % RH	0.015 °C
Response time t ₆₃ :	< 4 s	< 5 s
Long-term drift:	< 0.5 % RH/a	< 0.05 K/a
Measuring principle:	Capacitive polymer humidity sensor	PTAT (integrated)

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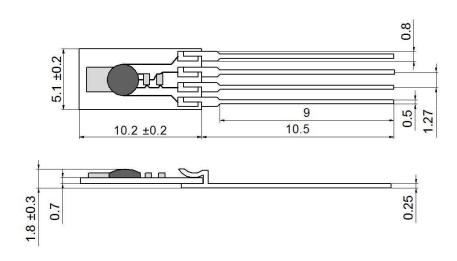
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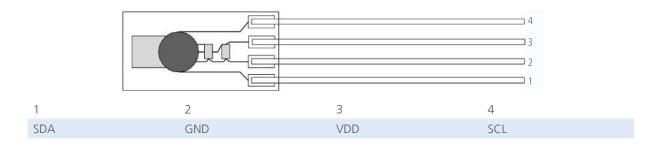
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Mechanical Dimensions



Pin Assignment



Order Information

	HYT 271
Order code	150.00066

Additional Electronics

	Document name:
LabKit:	DHHYTLabKit_E
LCD module:	DHLCD-Modul_E

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HYT 271 Digitales Feuchte- und Temperaturmodul INNOVATIVE SENSOR TECHNOLOGY Optimal für diverse Feuchteapplikationen





Additional Documents

	Document name:
Application Note:	AHHYTM_E







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