Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Humidity Sensor Module
HSM 100

The humidity sensor module HSM 100 extends the functionality of STM 33x / STM 330C / STM 33xU / STM 431J temperature sensor modules.
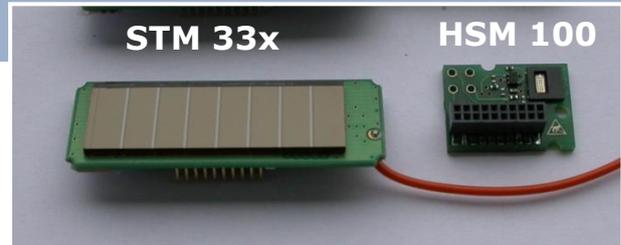
Functional Principle

HSM 100 contains an internal calibrated humidity sensor. It can be plugged onto members of the STM 33x / STM 431J module family via a 20 pin connector. The sensor signal is read via the ADIO3 input of STM 33x / STM 431J.

In order to be able to read the sensor signal, STM 33x / STM 431J has to be configured to an EEP supporting humidity. This can be done via Dolphin Studio.

STM 33x   HSM 100

Type	Ordering Code
HSM 100	**S3095-D100**

Features Overview

Humidity sensor	measurement range 0%-100% r.h.
	resolution 0.4% r.h.
	accuracy typ. ±5% r.h. between 30%-70% r.h. and 0-40°C
Power supply	via SWPWR pin from STM 33x / STM 330C / STM 33xU / STM 431J
Module dimensions	18 x 13 mm
Operating temperature	-20 up to +60 °C

⚠ Please ensure sufficient ventilation of air inside the housing. Otherwise the measurement will not represent ambient humidity.

⚠ Please avoid any material within 2mm distance from the 7mm x 7mm area depicted in the figure below (in plane as well as above and below the PCB). The measurement might be influenced by detuning the capacitive sensor.

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1) Leiterplatten Gesamtdicke mit Leiterbahnen und Lötstoplack
PC board total thickness with conductor paths and solder resist

2) Toleranz für Fräskante: 13 ± 0.2
tolerance for milled edge: 13 ± 0.2

3) Toleranz für Bohrungsabstand (Ø2±0.05): 13 ± 0.1
tolerance for hole pitch (Ø2±0.05):   13 ± 0.1

4) restliche Bauteilehöhe max. 0.8 mm
remaining component height max. 0.8 mm

max. 1.2
max. 1.09
max. 2.5
1±0.1 1)

Fräskante / milled edge
10.41 ±0.2
9.52 ±0.4
max. 5.1
14.35 ±0.4
13
5.5
3.43 ±0.4
Fräskante / milled edge
18
16.5
15
9.91 ±0.2
Ø2 ±0.05 (2x)
6.5
6.86 ±0.4
max. 1.35
max. 2.25
18±0.2
13.1 ±0.3
Ø2 ±0.1
3
13 2) 3)
Fräskante / milled edge
Fräskante / milled edges

Versatz / displacement	Toleranz / tolerance
Fräskante zu Bohrungen milled edge to holes	±0.2
Fräskante zu Leiterbild milled edge to conductive pattern	± 0.3
Ritzkante zu Bohrungen score edge to holes	± 0.3
Bohrungen holes	± 0.1
Bohrungen zu Leiterbild holes to conductive pattern	± 0.15

Massstab 5:1

Modul HSM100
module HSM100

A55-C01

EnOcean GmbH

Datum 18.01.11
Bearb. Gressl

Orig - Original Zeichnung nicht von Hand ändern