



HCPV - 20XX - XX Series

HumiChip® humidity sensor with voltage output

Characteristic

- Voltage output relative humidity (HCPV-201 also outputs temperature)
- Humidity calibration within $\pm 3\%RH$
- Linearity is less than $\pm 3\%RH$
- Good reliability — meet the requirements of automotive applications
- 3 types of connectors
- protective coating

Product Overview

The HCPV-20X humidity sensor module, based on HumiChip technology® chip design, delivers precise and reliable measurement capabilities (with temperature measurement capability). Featuring a temperature-compensated humidity output through linear voltage conversion, it enables direct connection to microcomputers with ADC inputs.

Temperature output (only applicable to HCPV-201) directly outputs the resistance value of NTC thermistor, which can be directly connected to the microcomputer through ADC input.

Apply

- smart home
- HCPV control
- industrial process control
- medical treatment
- automobile
- environmental monitoring



HCPV-20XW

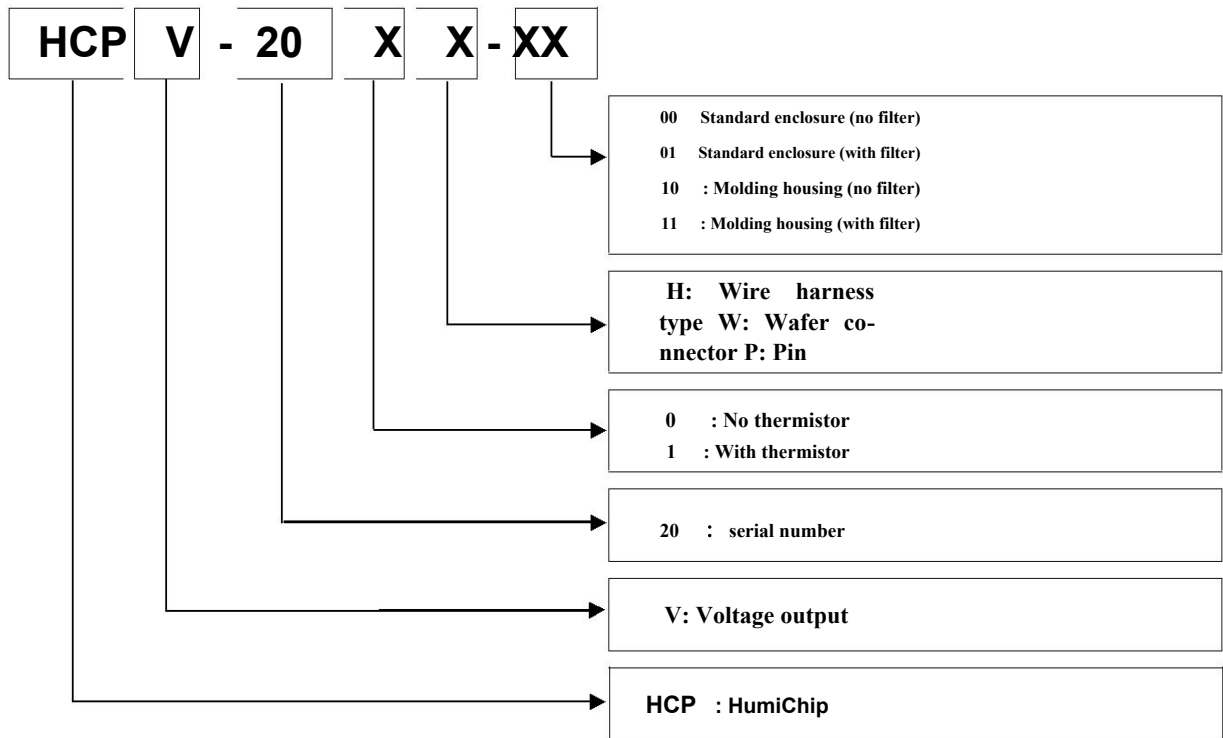


HCPV-20XP



HCPV-20XH

part number :



Electrical parameters

parameter	sign	price	unit
service voltage	V_{cc}	5.0	V
current	I_{cc}	1.5	mA

environment

parameter	sign	price	unit
Storage temperature range	T_{stg}	-55~125	°C
operating temperature range	T_s	-40~85	°C
Working humidity range	RH	0~100	%RH

Sensor performance

Relative humidity (RH%)

humidity characteristic	sign l	least value	representative valu	crest value	unit
supply voltage	V _{CC}	4.75	5	5.25	V
Rated output @50%RH	H_V _{OUT}	2.232	2.350	2.468	V
Humidity range	RH	0		100	%RH
Relative humidity and accuracy		-5	±3	+5	%RH
Humidity lag			±2		%RH
Average humidity sensitivity			26.23		mV/%RH
temperature coefficient	T _{CC}		-0.05	-0.1	%RH/°C
Response time (τ 63%)			7.0		sec

temperature (°C)

humidity characteristic	sign l	least value	representative valu	crest value	unit
Temperature range	T _a	-40		85	°C
Rated resistance @25°C	R	9.9	10.0	10.1	kΩ
B Value: B25/85	B	3401	3435	3469	K
Rated resistance tolerance @°C	T		1		%
B Value tolerance	B		1		%

深圳市杰晟兴电子有限公司 JM Components Limited

地址：深圳市福田区中航路7号鼎诚国际大厦南座2007室

手机：13662266995 马少良 电话：0755-83951311

邮编：518031

传真：0755-83952401