

haiNo. :

Date: 2018/08/21

# 制品规格书

# SPECIFICATIONS

VOC<sub>s</sub> sensor

Model Name: A1DU5P2CP005B

CUSTOMER	
APPEOVED	DATA

VENDOR			
APPROVAL	CHECK	PREPARED	DATA



**1. 适用范围和概要 /Scope and general description**

敝社制品型号:A1DU5P2CP005B

本规格书适用于挥发性有机物检出用的 TVOCs sensor 模组。

This document is applicable for the air quality sensor module named: A1DU5P2CP005B

**2. 额定值和特性 /Rating and property**

性能规格 /Performance Specification 参考别纸-1 /Refer to Appendix 1

**3. 信赖性 /Reliability**

实验项目(条件·判定) /Test items(Conditions & Judgement)

参考别纸-2 /Refer to Appendix 2

**4. 连接图 /Output connector pin assign**

4-1 端子情报 /Connector information 参考别纸-3 /Refer to Appendix 3

4-2 标签规格/ Label Specifications

**5. 外观·构造 /Appearance and structure**

外形图 /Appearance figure 参考别纸-4 /Refer to Appendix 4

**6. 出荷检查 /Shipment inspection**

7-1 检查实施内容 /Test content

· 外形尺寸 /Dimensions

测定全宽/全长/全厚 The length, width and thickness will be checked.

· 外观 /Apperance

确认脏污/划伤/欠品、捺印等的外观异常。

The abnormal appearance such as dirt, scratches, shortage of parts will be checked.

7-2 检查基准 /Inspection criteria

检查项目/Inspection Items	检查基准 /Level
电气的特性/Electrical performance	5PCS/LOT
外形尺寸/ Dimensions	
外观/Apperance	

测定回路 : / Measurement circuit

T B D

## 8. 使用和保管上的注意事项 /Important Notices for Use / Storage

8-1 由于规格书规定范围外的使用不能保证，绝对禁止。

Any usage not conforming to this document is not allowed, as we take no responsibility for any usage exceeding this specifications.

8-2 由于该制品是**高密度集成回路(ESD 耐性:2kV 人体模型)**搭载的电子**部品**，组装时，请注意**静电气对策**。

The ESD tolerance is 2kV(HBM), Please manage ESD when assembling.

请不要放置在灰尘多的场合。该**制品**请不要直接暴露在**尘埃·盐分·气体(SO<sub>2</sub>, H<sub>2</sub>S, Cl<sub>2</sub>, NH<sub>3</sub>)·酸·强碱**等中。

The units must not be used in the environment with heavy dust. This product is not allowed to exposure directly to dust, salinities, and the gas such as SO<sub>2</sub>, H<sub>2</sub>S, Cl<sub>2</sub> and NH<sub>3</sub>,acid,alkali etc.

8-3 该**制品**作为**屋内設置**使用设计，设置在受潮气影响的场合(**盐害地域**)时，请采取**装配側不直接接受湿气和盐分影响**的对策。

This product is designed for the indoor installation. Please use it after considering measures that moisture and a direct salt do not influence on the set side when setting it up in the place (salt damage region) where the influence of the sea breeze is received.

8-4 不可接触**水滴、溶剂、油脂**等。

The units must not be applied with any dew, solvent or oil.

8-5 该**制品**，请不要放入**纸屑、金属片、虫**等。

Preventive actions for dusts and metal pieces and insects needed.

8-6 该**制品**作为**一般民生用**设计，请不要在**医疗、工业、车载等特殊用途**下使用。

This unit is designed for the consumer use only. Never use for those for medical application, for industrial application, for automobile application.

8-7 组装时，如果有该**制品起因**的问题，生产开始前，请反馈。

When the trouble according to the unit is occurred at the main system, please tell us before our mass product start.

8-8 **保障期限** /Period of gurantee

纳入后 1 年 /After delivery date : one year

## 9. 纳入形态/Package Specifications

9-1 托盘中**制品**收纳 Products stored in tray

① **制品**收纳在**出荷托盘**。(10PCS\*5=50PCS)

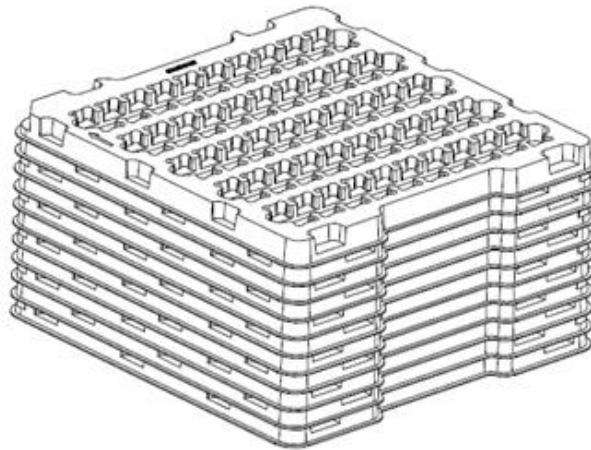
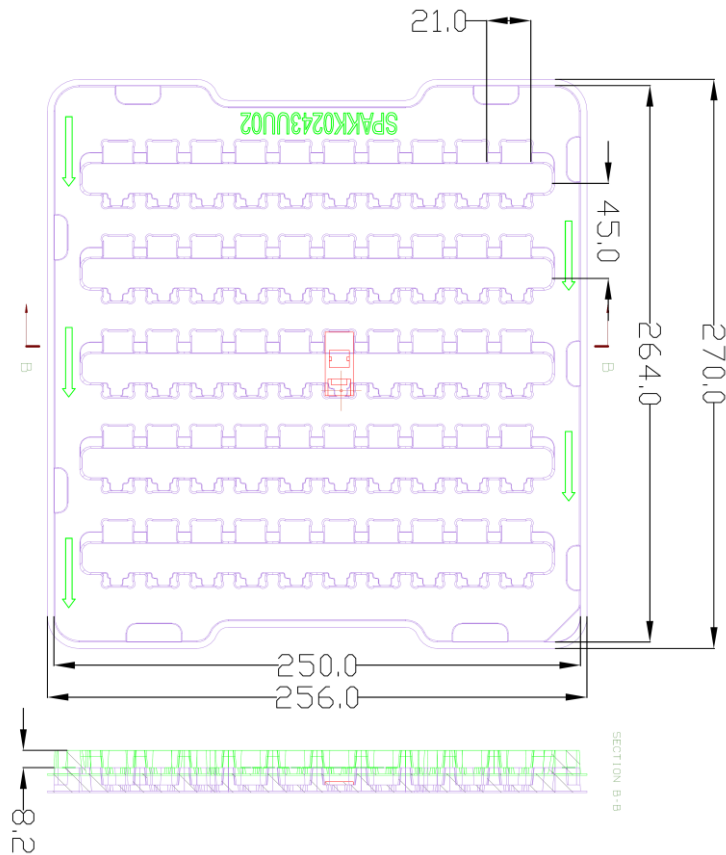
The products are stored in the shipment tray. (10PCS\*5=50PCS)

② **制品**收纳后的**托盘最大重叠 10 层**，**最上层放置空托盘**，总计 11 层。

The tray that stored the products is piled up by 10 pieces. An empty tray should be piled up to the highest rung.

③ 11层重叠后，中央部用拉伸胶带固定。

After 11 steps are piled up, the center is fixed with stretch film.



9-2 外装箱收纳/Storage in outer carton

- 制品最大收纳数：500PCS \* 1 = 500PCS

One packing storage in one carton: the maximum No. of storage products is 500PCS \* 1 = 500PCS

- 有缝隙时，纸板材料等缓冲材料插入缝隙内，防止产品移动。

The buffer material of the cardboard material etc. is stuffs into the gap, and the products is prevented from moving.

- ③ 不足**最大数量**时，装入缓冲材料。

buffer material is packed when not coming up to maximum quantities.

- ④ **外装箱**上记入**敝社名 (SHARP)、制品型号、数量**。

The factory name (SHARP), parts No., and storage No. should be marked on the carton.

- ⑤ **注意保管环境/Storage Enviroment**

请在适合的**温度·湿度 (-25~70°C、5~95%RH)**下保管。另外，请避免接触氯和腐蚀性的气体。保管在不合适的环境下，会影响**制品特性**。

Products should be stored at an appropriate temperature and humidity (-25~70°C、5~95%RH). Keep products away from chlorine and corrosive gas. The sensor might be damaged when stored in improper condition or excluding this guarantee condition.

## 10. 文书的优位顺序

该**规格书**和其它**契约文书**等的记载事项由矛盾时，该**规格书**优先。

This specifications must be treated with the highest priority in the event of any contradictions, conflicts with the content of other documents.

## 11. 其它/Others

- (1) 对**规格书**有疑义时，双方本着解决问题的诚意，双方协议进行该**规格书**的**改定**。

If any doubt has been seen in this specifications, both parties will make the best efforts to resolve the problem in good faith, and the revisions should be made through the mutual discussion by both parties.

- (2) 为了**制品改良**等，该**制品**的**规格·材料·制造工程**以及**管理系统**发生**变更**时，需要**事前**添付品质信赖性确认数据，向客户进行文书申请。

We do not change any part of the specification without a previous notice.

- (3) 该**制品**或**组品·部品**以及**制造工程**上，不含有任何臭氧破坏物质

[规定对象物质：**CFC's·HCFC class 1·Halon·四氯化碳·1.1.1-三氯乙烷**]。

Any ozone depleting substances (CFC's, HCFC class 1, Halon, Carbon tetrachloride, 1.1.1-trichloroethane) have not been used in the Units.

- (4) 该**制品**不包含含有四氯化物的**电解电容器**。

The unit does not contain the electrolytic capacitor which contains tetrachloride compound.

- (5) 该**制品**不含有**特定溴化难燃剂**。

Bromine unflammability have not been used in the Units.

- (6) **生产场所(工场) / Manufacturing sites** ·

无锡夏普电子元器件有限公司 (WUXI SHARP ELECTRONIC COMPONENTS CO.,LTD)

中国江苏省无锡市高新技术产业开发区岷山路 60 号 C 地块 .

## (7) 工业产权/Industrial property

该制品相关的工业产权问题发生时，双方负责任的方式进行解决问题。

In case that there might happen any troubles about industrial property of the units, both parties will solve the troubles with responsibility.

## (8) 出口贸易管制(该非判定)

Exportation trade control(corresponding uncorresponding determination)

別表第1、1~15项: 非该当/Appended table 1,section1~15: uncorresponding

该当项2-36 该非判定結果: 非该当)(corresponding section 2-36 judgment uncorresponding)

別表第1、16项 :该当(HS85)Appended table 1, section 16: corresponding (DC power supply unit)

## (9) 该制品 RoHS 对应品 /This product is a RoHS correspondence article

## (10) 无卤素对应 /About the halogen free correspondence

对应 Correspondence

## (11) 该规格书的英·中文的解释不同时，中文(汉语)优先

We shall give priority to the Chinese sentence, when any difference sharpened to the interpretation of English/Chinese sentence.





### 3. 信頼性 /Reliability

#### 3-1 高温保管/ High temperature storage

周围温度 70 °C、500小时放置后、常温下2小时放置后，外观以及电气特性无异常。

The appearance and an electrical characteristic not having abnormality after leaving at normal temperature for 2 hours after leaving in the ambient temperature 70 °C, 500 hours.

#### 3-2 低温保管/ Low temperature storage

周围温度 -25 °C、500小时放置后、常温下2小时放置后，外观以及电气特性无异常。

The appearance and an electrical characteristic not having abnormality after leaving at normal temperature for 2 hours after leaving in the ambient temperature -25 °C, 500 hours.

#### 3-3 高温高湿保管/ High temperature high humidity storage

周围温度60°C、湿度90%Rh 500小时放置后、高温槽中取出，充分干燥后（无結露）进行测定，满足外观以及电气特性。

After leaving the unit in temperature 60 °C humidity 90%Rh for 500 hours. The unit must be no abnormal status must be observed about its appearance and electrical characteristic.

#### 3-4 热冲击试验/ Thermal shock test

-40 °C（0.5小时）、85 °C（0.5小时）、上下降时间（30分）、计2小时，作为一个1周期，进行100回重复，满足外观以及电气特性。

After leaving the unit under the following ambient temperature sequence, -40 °C (0.5hour) 85 °C (0.5hour) slope (30minutes) as one cycle, for 100 cycles. The unit must qualify no abnormal status must be observed about its appearance and electrical property.

#### 3-5 落下试验/ Shock test

从30cm的高度落到木板上，3回落下。

Falling from 30cm height on a wooden board for 3 times.

#### 判定基准/ Criterion

(※) 3-1,3-3,3-4,以及3-5 试验后的测定，由于长时间暴露在高湿度环境下，因为一时的sensor输出变化量太大，在下記条件下复查实施后，进行测定。

After the test 3-1,3-3,3-4,3-5, the samples should be placed in the reconditioning condition below to recover the shift caused by high humidity.

复查条件/Reconditioning: 烘培 140 °C / 24h ⇒ 27 °C, 75%RH / 24h

25 °C/40%RH以及25 °C/60%RH条件下，输出值的变化量相对初期值±5%RH以内，作为在规格内。

The amount of change of output value at 25 °C/40%RH and 25 °C/60%RH must be ±5%RH or less against an initial value and be in Spec.

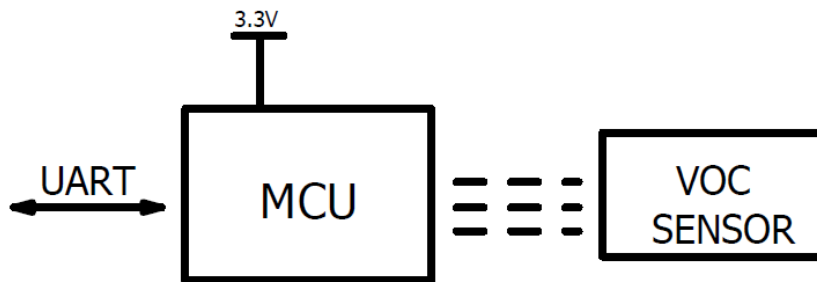
## 4. 连接图/ Output connector pin assign

别纸-3

### 4-1 端子情报 /Connector information

端子编号	标识	机能
Pin No.	Ref.	Function
P1	VDD	电源电压
P2	SCL	时钟信号线
P3	SDA	数据信号线
P4	RX	接收数据线
P5	TX	发送数据线
P6	GND	接地

### 4-2 模块图/ Block Diagram



### 4-3 标签规格/ Label Specifications

#### 【基板印字规格/ Mark Specifications】

LOT生产日管理

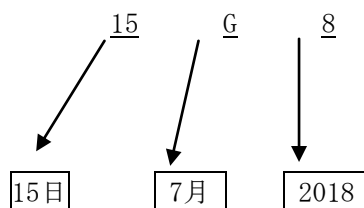
dd M Y

dd=日期, M=月, Y=西历, 年的末位

(A、B、C、D、E、F、G、H、J、K、L、M)

1、2、3、4、5、6、7、8、9、10、11、12 月

例)



## 5. 外观·构造/Appearance and structure

外形图 /Drawing

别纸-4

单位: mm

Pitch: 1.25mm

定位孔:  $\phi 2.0\text{mm}$

无尺寸公差: 0.5mm

