



**5.7" PCAP Solution  
12017613**

Date: 14.02.2018

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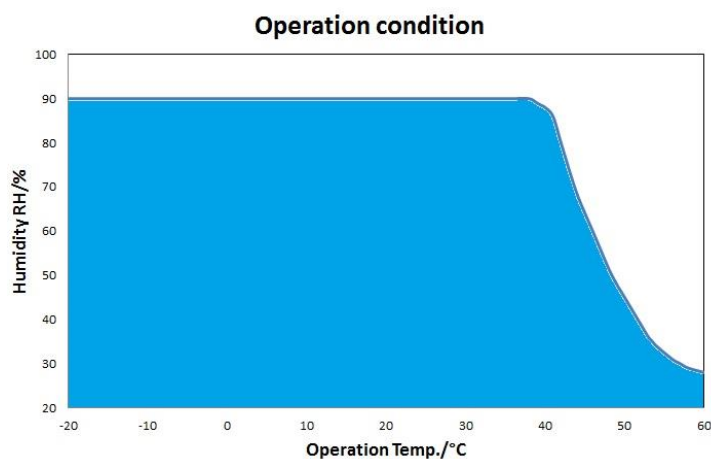
## 1 Scope

DATA MODUL's PCAP solution 12017613 consists of a 5.7" capacitive touch screen . Please note that this is only a sub-assembly of the final product. The specification of the final end product might differ from this specification.

## 2 Touch Sensor and Cover Glass

### 2.1 Technical Parameters

Screen size	5.7 inch /14.5 cm
Format	4:3
Composite	Glass / Film / Film
Outline dimensions	127.9 x 98.8 x 1.2 mm (WxHxT)
Active area	117.1 x 88.4 mm (WxH)
Bending radius of tail	R = 1 mm recommended
Transmissivity	86% (min.)
Haze	1% (max.)
Operating temperature and humidity	-20 to +70°C, 20 to 90% RH
Storage temperature and humidity	-20 to +70°C, 10 to 90 % RH
Tail connector	OMRON XF2M-5015-1A



## 2.2 Reliability Tests

Low Temperature Storage Test	-30°C for 240h
High Temperature Storage Test	80°C for 240h
High Temperature / High Humidity Test	60°C, 90% RH for 240h
Cycle test	-30°C / 80°C, 0.5 h /cycle, 100 cycles

## 3 Recommended Touch Controller

The recommendation for this PCAP solution is a controller based on Microchip mXT224S . Please ask your local DATA MODUL sales representative for further details.

## 4 Optical Inspection Criteria and Handling Recommendations

### 4.1 Optical Inspection Criteria

For details on the optical inspection criteria, please refer to DATA MODULs Outgoing Spec or ask your local DATA MODUL sales representative.

### 4.2 Handling Recommendations

Precautions for operation

- Do not put a heavy, hard or sharp object on the product
- Do not bend the product in order to assure the reliability
- Do not put one product on the other. Otherwise, it may cause the product to be scratched
- Don't use any organic solvent acid or alkali solution.

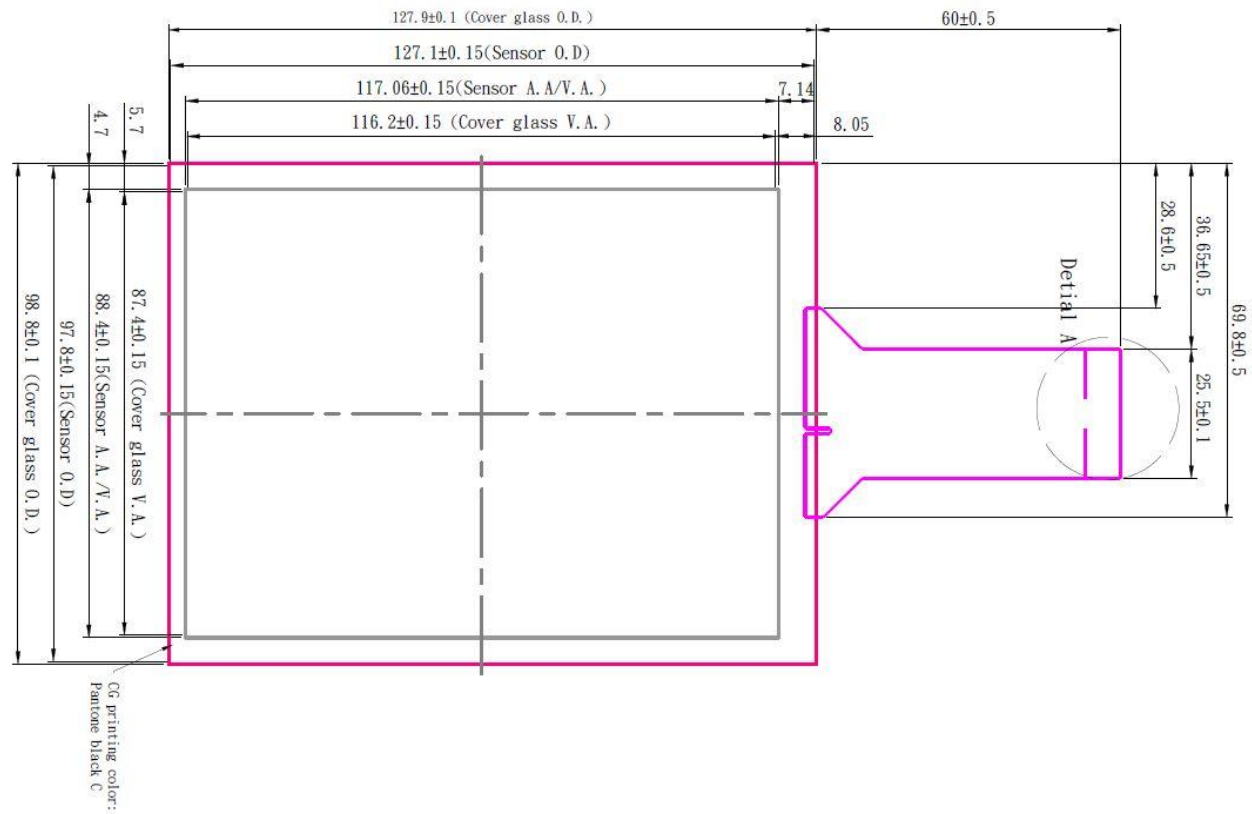
Precautions for mounting

- The panel should be mounted using a configuration that either holds the panel by all four corners or by all four sides
- The bezel edge must be positioned outside the active area. The bezel may cause false activation if the edge overlaps the active area
- Any mounting configuration should ensure that there is no twisting force applied to the panel
- 1mm distance between TFT screen and touch panel is recommended

Precautions for tail

- The flex tail in general can be bent with a min. radius of about 1mm
- In order to avoid damaging and malfunction of the sensor, please don't bend the FPC area next to the panel
- Excess or repeated bending of the FPC connector should also be avoided

## 5 Appendix A: Technical Drawing



## 6 Revision History

Date	Author	Changes
21.11.2017	Graf	initial version
14.02.2018	Lübke	structure: drawing and appendix

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