



**9.0" PCAP Solution
12023342
eTP090W2101-PS**

Revision: 002

Date: 2020-07-16

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1 Scope

DATA MODUL’s PCAP solution 12023342 consists of a 9.0” 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.

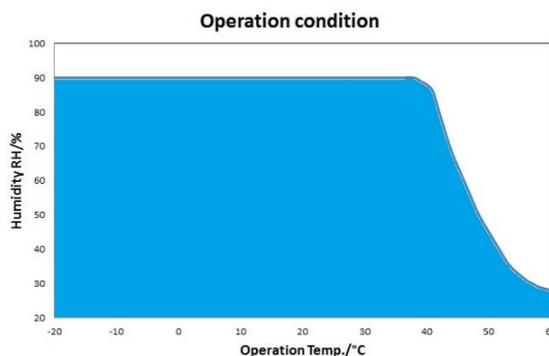
2 Touch Sensor and Cover Glass

2.1 Technical Parameters

Screen size	9.0 inch / 22.9 cm
Format	wide
Composite	Glass / Film / Film
Outline dimensions	212.00 x 135.00 x 1.15 mm (WxHxT)
Active area	197.00 x 119.00 mm (WxH)
Carrier glass	0.7 mm
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	70°C for 240h
High Temperature / High Humidity Test	60°C, 90% RH for 240h
Cycle test	-30°C / 70°C, 0.5 h / cycle, 100 cycles



3 Recommended Touch Controller

The recommendation for this PCAP solution is a controller based on 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
- Do not use any organic solvent acid or alkali solution.

Precautions for mounting

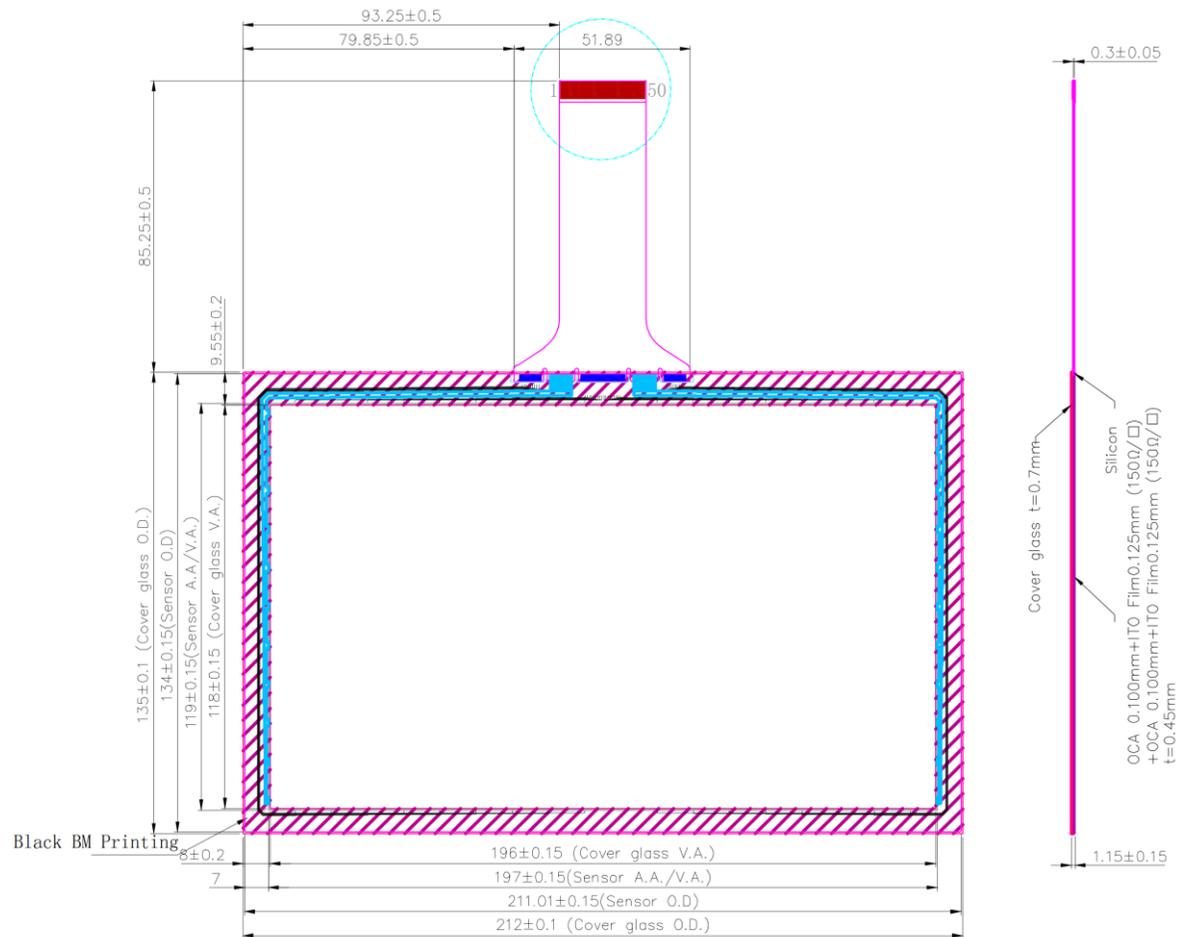
- The panel should be mounted using a configuration that either holds the panel by all four corners or by all four sides
- The bezel edge must be positioned outside the active area. The bezel may cause false activation if the edge overlaps the active area
- Any mounting configuration should ensure that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

Precautions for tail

- 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

Front view



6 Revision History

Revision	Date	Author	Changes
000	2017-11-21	Graf	initial version
001	2018-02-14	Lübke	structure: drawing and appendix
002	2020-07-16	T. Gollling	drawing (page 5)

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