



**10.4" PCAP Solution  
12018445**

Date: 2/11/2019

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## 1 Scope

DATA MODUL's PCAP solution 12018445 consists of a 10.4" 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	10.4 inch /26.4 cm
Format	4:3
Composite	Film / Film
Outline dimensions	229.9 x 177.4 x 0.63 mm (WxHxT)
Active area	213.2 x 160.4 mm (WxH)
Bending radius of tail	R = 5 mm recommended
Transmissivity	85% (min.)
Haze	3% (max.)
Operating temperature and humidity	-20°C+70°C ,20 % RH- 25 % RH
Storage temperature and humidity	-40°C+80°C, 10 % RH- 90 % RH
Tail connector	OMRON XF2M-5515-1A

\* Note 1: When the ambient temperature is above 65°C, the humidity has to be below 50%RH

## 2.2 Reliability Tests

Low Temperature Storage Test	-30°C for 72h
High Temperature Storage Test	70°C for 72h
High Temperature / High Humidity Test	60°C, 85% RH for 250h
Cycle test	-20°C / 60°C, 2 h / cycle, 36 cycles

## 3 Recommended Touch Controller

The recommendation for this PCAP solution is a controller based on mXT640T. 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.

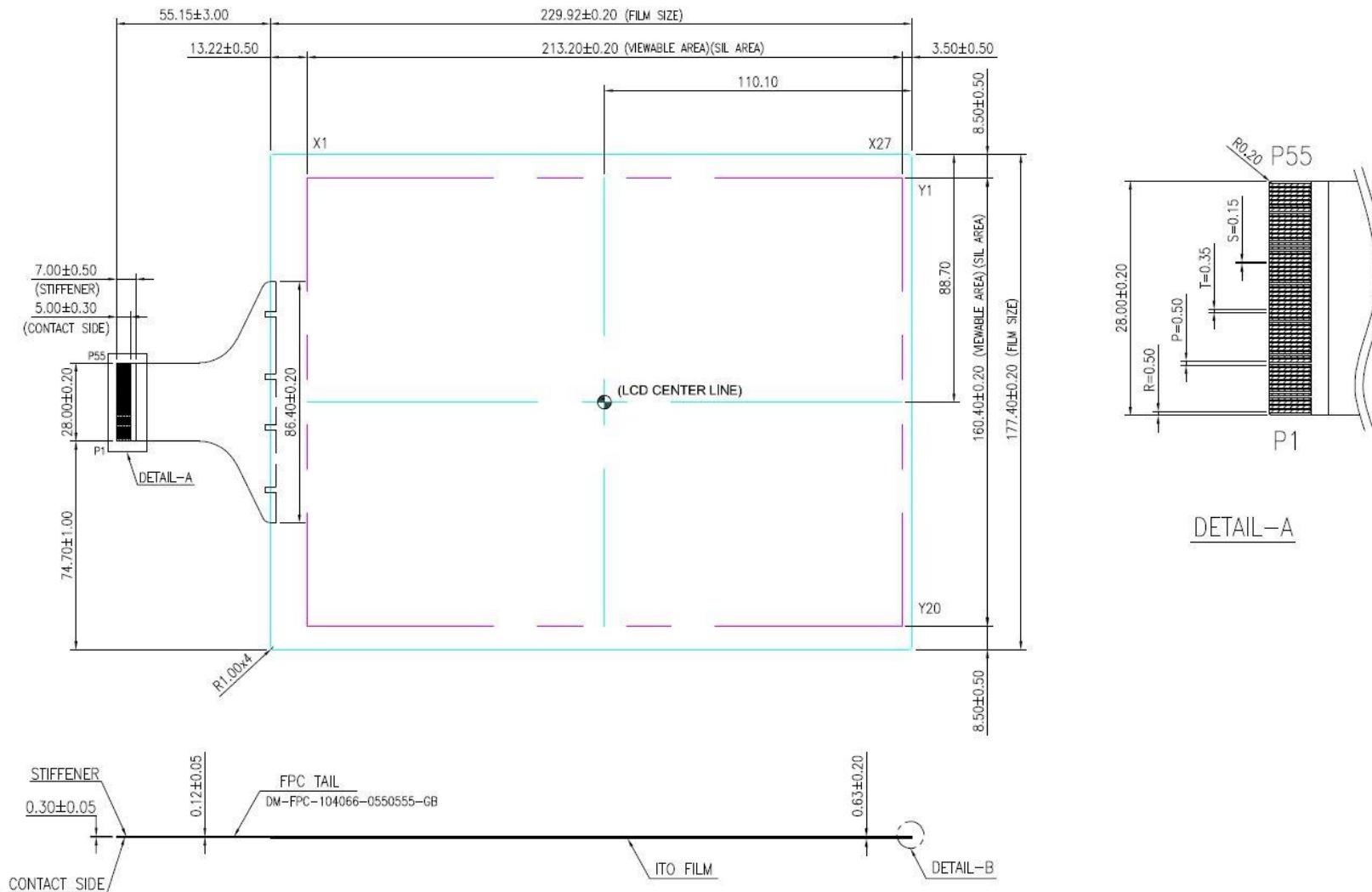
Precautions for mounting

- 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
2/11/2019	T. Golling	initial version

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