

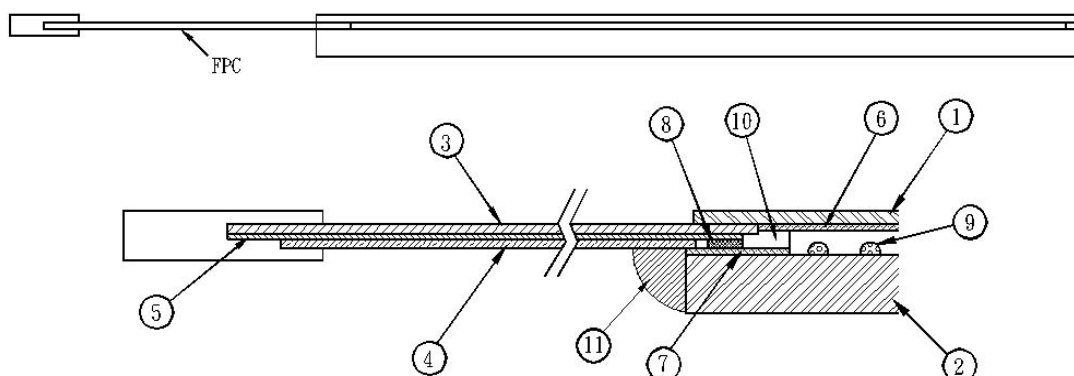
## Analog 5-wire PET-On-Glass Touch Screen Specification

### 1. Mechanical Dimensions and Construction

- 1.1 General: Analog Resistive touch screen is laminated by ITO PET to ITO glass.
- 1.2 Construction :

Item	Description	Material	Remarks
1	ITO PET (Top layer)	0.188mm ITO PET Film	Antiglare coating Surface hardness: 3H Resistance:300~600Ω/□
2	ITO Patterned Glass (Bottom layer)	2.36 mm ITO Glass	Resistance:300~900Ω/□
3	Tail Base	Kapton	Separated Tail
4	Tail cover lay	Kapton	
5	Connector	AMP compatible	2,54mm
6	Top layer circuit	Silver ink	
7	Bottom layer circuit	Silver ink	
8	Layer to layer contacted	Silver ink	
9	Dot spacer	UV Cure ink	
10	Isolation Layer	Isolation Adhesive	
11	Glue	UV Glue	

Touch screen side view:



*Changes that contribute to technical improvement are subject to alternations*

				2006	Datum	Name	<b>TOUCHSCREEN</b> <b>10,67", 5-Wire</b> AMT-02507-01 SPECIFICATIONS OF ANALOG RESISTIVE PET-ON-GLASS TOUCH SCREEN Manufactured by Apex Material Technology Corp.
				Bearb.	18.08.	Maurer	
				Gepr.	18.08	Maurer	
				Vert.			
				<b>EDV-Datasheet</b> don't change manually			
				 ELECTRONIC COMPONENTS			
				D 79346 Endingen			
Zu	Änd.	Datum	Name				<b>H 1070.0459</b> page 1 of 4    Index: -

### 1.3 Input Method and Activation Force

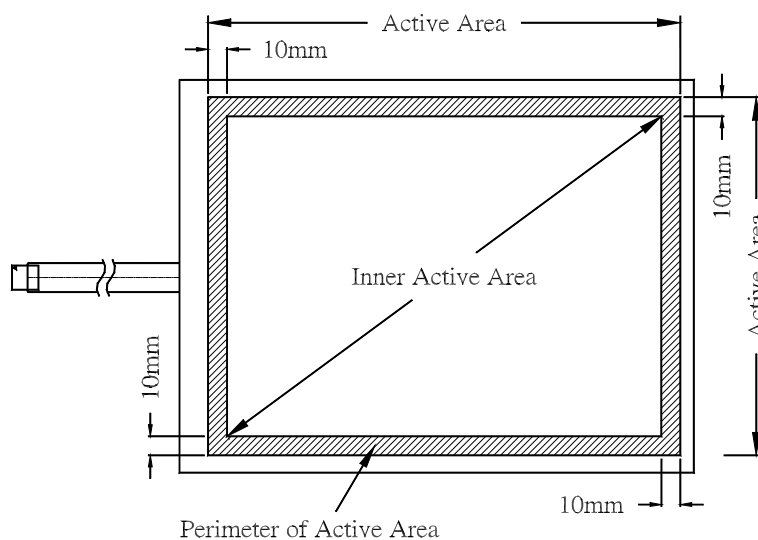
Input Method	Average Activation Force
16mm dia. Silicon "finger"	Less than 1.00 N

## 2. Typical Optical Characteristics

- 2.1 Visible Light Transmission: >80%
- 2.2 Haze: < 13%

## 3. Electrical Specifications

- 3.1 Operating Voltage: 5.5V or less
- 3.2 Contact current: 20mA (maximum)
- 3.3 Circuit close resistance: 20~300Ω
- 3.4 Circuit open resistance: > 10MΩ at 25VDC
- 3.5 Contact bounce: < 15ms
- 3.6 Linearity Specifications: The linearity specifications are based on Hampshire or PenMount touch screen controllers and drivers to define.
- 3.6.1 Inner Active Area : 10 mm inside of X and Y active area dimensions.
- Perimeter of Active Area : The area 10 mm inside of X and Y active area dimensions.



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5.3 Exposure to constant temperature and humidity

Touch panel is put into a test machine at the condition of 50°C, 90%RH for 120 hours. Then it is left at the room temperature for 24 hours or more. The measurement must satisfy the following:

- Circuit close resistance: as Sec. 3.3
- Circuit open resistance: as Sec. 3.4
- Contact bounce: as Sec. 3.5
- Linearity test: as Sec. 3.6

5.4 Thermal Shock

Touch panel is put into a test machine at the condition of -40°C for 30 minutes, and then 80°C for 30 minutes. The process is repeated by 10 cycles. Then it is left at the room temperature for 24 hours or more. The measurement must satisfy the following:

- Circuit close resistance: as Sec. 3.3
- Circuit open resistance: as Sec. 3.4
- Contact bounce: as Sec. 3.5
- Linearity test: as Sec. 3.6

**6. Durability test:**

6.1 Finger touches

Touch panel is hit 36 millions times with a silicone rubber of R8 finger, hitting rate is by 250g at 2 times per second. The measurement must satisfy the following:

- Circuit close resistance: as Sec. 3.3
- Circuit open resistance: as Sec. 3.4
- Contact bounce: as Sec. 3.5
- Linearity test: as Sec. 3.6

**7. Optical Performance:**


7.1 Optical inspection method and optical defect standards refer to document. A001-2 Touch Screen Optical Quality Standard.

7.2 Outside to Active Area : any optical defected in this area need to be ignored if no effected to touch screen function.

**8. Others**

8.1 Always store the touch screen in its original shipping container under normal conditions (20~25°C, 65% RH)

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