

杭州凡诺电子有限公司
FANNAL ELECTRONICS CO., LTD

Specifications for Module
 Model NO: FN070A133-V1.0

Approved For Specifications Only
 Approved For Specifications And Sample

FANNAL			CUSTOMER
PREPARED	CHECKED	APPROVED	APPROVED
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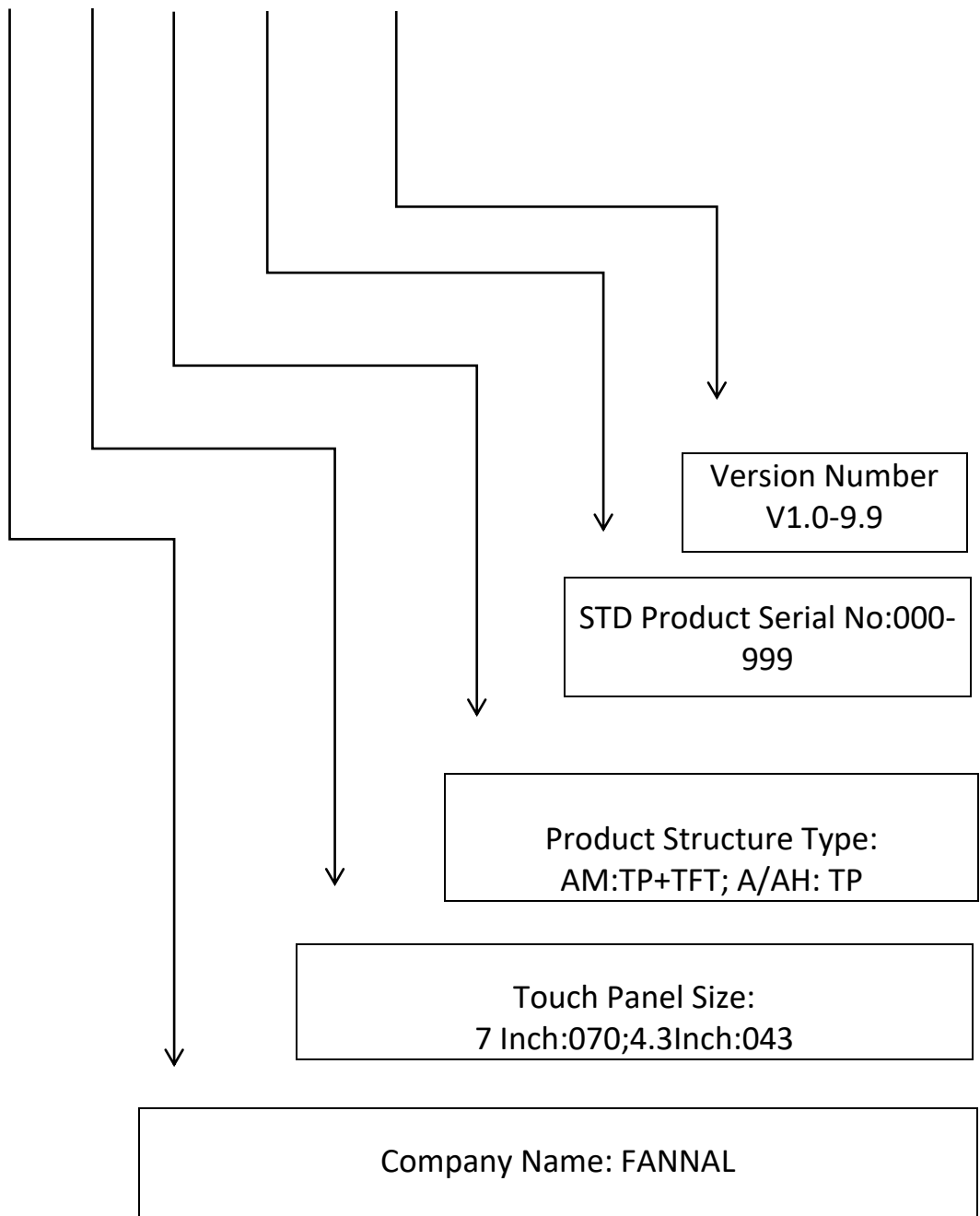
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3. Module Numbering System

FN 070 A 133 - V1.0



4. Application

This improved projected capacitive touch panel module is applied to industrial applications which required touch input.

Industrial control, medical devices and automation industries (transportation, military, smart home, and others)

5. General Specifications

NO.	Item		Specifications	Unit
1	Touch Panel Size		7.0(Diagonal)	inch
2	Structure		G+G	
3	View Area		155.08(H)x86.92(V)	mm
4	Outline Dimension		164.9(H)x100(V)x1.58(D)	mm
5	Transparency		85%Min	
6	Surface Hardness		6H	
7	Driver IC		GT911	
8	Detect Points		5	
9	Interface		I2C	
10	Power supply		3.3	V
11	Operating Temperature		-20~70	°C
12	Storage Temperature		-30~80	°C
13	ESD	Air	±8	KV
		Contact	±4	KV
14	RoHS Compliance		OK	

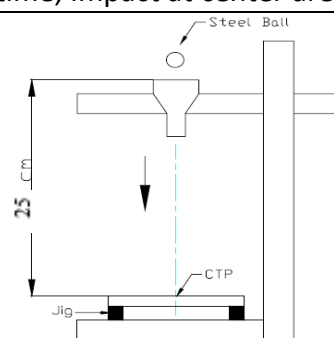
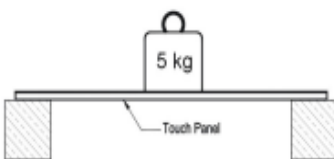
6. Pin Assignment

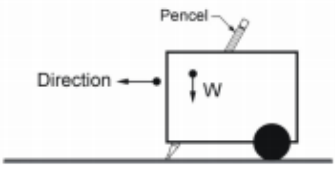
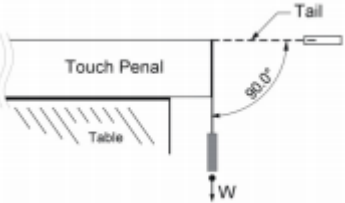
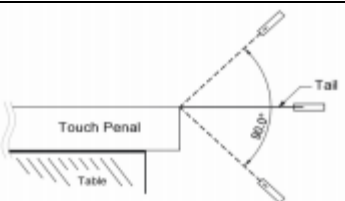
Pin No.	Symbol	I/O	Description	Note
1	VDD (3.3V)	--	Power supply	
2	GND	--	System ground	
3	INT (3.3V)	O	Interrupt signal, active low, asserted to request Host start a new transaction	
4	SDA (3.3V)	I/O	I ² C data signal	
5	SCL (3.3V)	I/O	I ² C clock signal	
6	RST (3.3V)	I	External reset signal, active low	

CTP Test Program

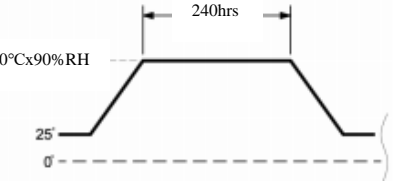
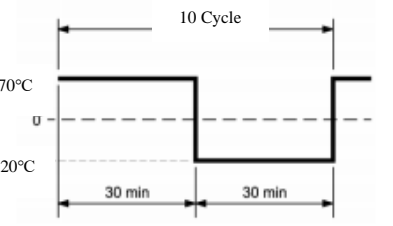
FW Name:	FN070A133_GT911_VER95_20200116.cfg
FW Version:	0X95
Test Config:	FN070A133_CTP_MP.ini

7. Mechanical Characteristic

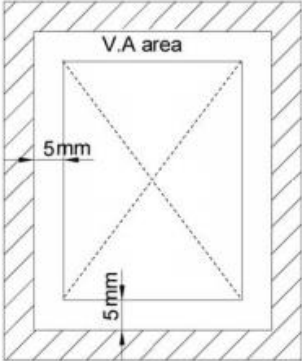
NO.	Item	Condition	Specifications
1	Operating Force	Finger \leq 10g	
2	Impact	Steel Ball/132g/Height=25cm/1 time, Impact at center area 	Satisfy- 1. Optical Characteristics 2. Electrical Characteristics Appearance- 1. Ignore test area 2. No mechanical damage
3	Static Load	5000g within 10cm Φ area for 30sec 	Satisfy- 1. Optical Characteristics 2. Electrical Characteristics Appearance- 1. Ignore test area 2. No mechanical damage

NO.	Item	Condition	Specifications
4	Hardness	6H pencil, pressure 500g/45°	Satisfy- 1. Optical Characteristics 2. Electrical Characteristics Appearance- 1. Ignore test area 2. No mechanical damage
			
5	Tail Peeling	500g/cm by vertical 90° for 30sec	
			
6	Tail Bending	90° 10times left & right	
			

8. Reliability Test

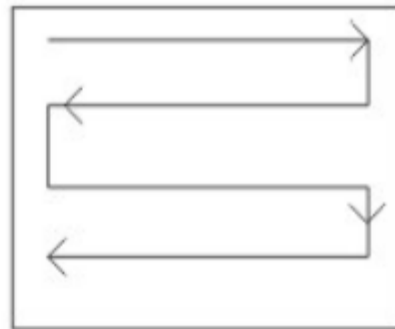
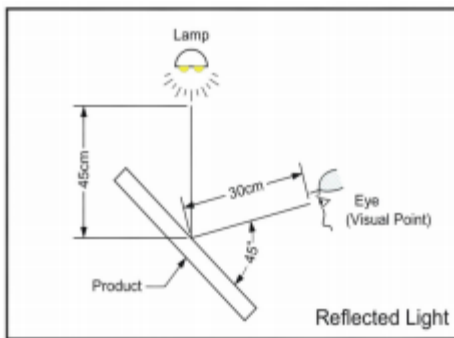
NO.	Item	Condition	Specifications
1	Constant Temperature/Humidity	60°C X 90%RH, 240hrs and normalized for 24hrs	Satisfy- 1、 Electrical Characteristics
			
2	Heat Cycle	80°C/240hrs and normalized for 24hrs	
3	Cold Cycle	-30°C/240hrs and normalized for 24hrs	
4	Thermal Cycle	-20°C~70°C [30min/cycle]*10cycles and normalized for 24hrs	
			

9. Function test

Function Test	<p>Test Method: Use $\Phi 8$ copper stick to draw the square diagonal line.</p> <p>Test Area: 5mm inward view area.</p> <p>Disapproval Criteria: It is NG when we see the off-liner or jumping out spec shift.</p>	
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10. Appearance Inspection

The inspection is to be performed with 800-1000 LUX fluorescent lamp lighting from the back or side. The panel is to be placed 30cm away from eyes. Viewing Time: 15 ± 3 seconds/per face (Figure 13-1)



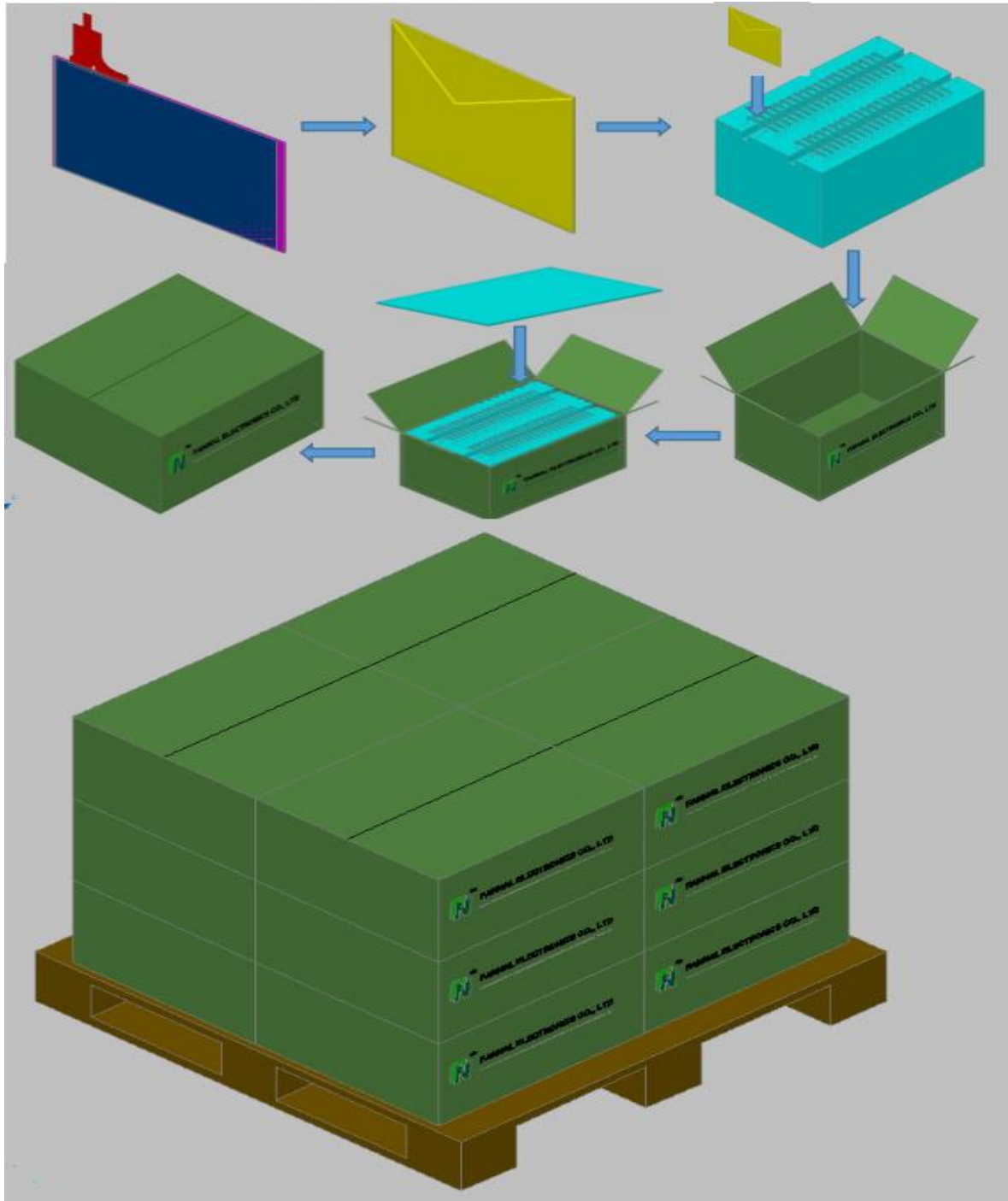
11. Appearance Specification

NO.	Item	Specifications	Judgment
1	Dot Contamination	1) $D \leq 0.2\text{mm}$ 2) $0.2\text{mm} < D \leq 0.50\text{mm}, DS \geq 10\text{mm}$ 3) $D > 0.5\text{mm}$	1) Ignore 2) OK with 5 3) NG
2	Linear Contamination	1) $W \leq 0.05\text{mm}, DS \geq 10\text{mm}$ 2) $0.05\text{mm} < W \leq 0.1\text{mm}, L \leq 5\text{mm}, DS \geq 10\text{mm}$ 3) $W > 0.1\text{mm}$ or $L \geq 5\text{mm}$	1) Ignore 2) OK with 5 3) NG
3	Cracks and Chips (Surface)	$X < 0.2\text{mm}, Y < 0.2\text{mm}, Z < \frac{1}{2}T$	Ignore

<Endorse>
 1. D=Diameter / W=Width / L=Length
 2. Tail: Slight bend mark is allowed on the tail; crack or tear is not allowed.
 3. Particle Spots: Flaws found coating if transparent, please follow Particle Spots specification.
 4. The dirty of surface can be clean that can be acceptable.

12. Mechanical Drawing

13. Packaging(NEUTRAL PACKING)



SIZE(Carton): 53X36X27.5cm