

Vatronics Technologies Limited

Introduction

Name: Vatronics Technologies Limited

Total investment USD10,000,000

Line of Business Touch Panel R&D and Manufacturing in Nanjing

Covering Area 68,000 square meters

Birth time Sep 2002

Tech Original Japan

Facility Original Japan and Taiwan

Employee No. 450

Capacity 200Kpcs per working day(eg 2.0")

Target Market China Mainland, North America, Europe, etc.

in Sep 2002 Registered in Nanjing Hi-tech Zone

in Oct 2003 Completed the workshop, facility being imported into here

In Nov 2003 Successfully developed the 1st touch panel samples for R&D aim;

in Dec 2003, Established the whole R&D team;

in May 2004 Received the 1st order

in July 2004 Manufactured the 1st small quantity of mass goods

in Aug 2004 Developed touch panel samples for mobile phone

in Sep 2004 Manufactured mass goods for writing pad, started sustained supply for the market

in Oct 2004 Developed touch panel samples for car navigation;

in Nov 2004 Completed debugging all of equipment;

in Mar 2005 Fully checked and accepted the whole facility, Gained ISO9001 certificate, Started sustained supply for car navigation

in Jun 2005 Started sustained supply for mobile phone;

in June 2006 Passed the RoHS Compliant inspection.

Touch panel lists

Four-Wire Resistive

1.8, 2.0, 2.2, 2.3, 2.4, 2.5, 2.6, 2.8, 2.9",

3.0, 3.1, 3.2, 3.3, 3.5, 3.8, 3.9",

4.0, 4.3, 4.4, 5.6, 5.7, 5.8, 6.2, 6.4, 6.5, 7.0, 7.1, 8.2, 10.4, 15"

Five-wire resistive

15, 17"

Application Fields

Mobile Phone, PMP, DMB, PDA,
E-dictionary, E-book, Writing Pad,
Remote controller, Portable Navigation
Car navigation, Car DVD, LCD Monitor
other information terminal and etc

Remark: underlined items are our main application fields

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Technical Parameters;

Environmental; Operating Temperature Range: -10C -- +60C (humidity from 20%RH to 90%RH; Non condensed); Storage Temperature Range: -20C -- +70C (humidity from 20%RH to 90%RH; Non condensed); Remark: Operating temp range can be -30 -- +80C as per customer's special requirement.; Input Method; with a pen (polyacetals) or finger; Appearance (including inspection standard)

Input Method with a pen polyacetal or finger

Conditions	Inspection Standard	
Scratch Mark	Width(W), Lenth(L)	Judgment
	$W < 0.05\text{mm}$	Accept, if $L \geq 20\text{mm}$
	$0.05\text{mm} < W < 0.07\text{mm}$	Accept, if $L \geq 20\text{mm}$ and the distance from another one or any impurity $> 20\text{mm}$
		Reject, if $L \geq 20\text{mm}$ and the distance from another one or any impurity $< 20\text{mm}$
		Reject, if $L < 20\text{mm}$
	$W > 0.07\text{mm}$	Reject
Spot Impurity	Average diameter(D)	Judgment
	$D < 0.3\text{mm}$	Accept
	$0.3\text{mm} < D < 0.5\text{mm}$	Accept, if the distance from any scratch mark or any impurity $> 20\text{mm}$
		Reject, if the distance from any scratch mark or any impurity $< 20\text{mm}$
	$D > 0.5\text{mm}$	Reject

Line Impurity	Width(W), Length(L)	Judgment
	W < 0.05mm	Accept if L ≤ 5mm
	0.05mm ≤ W ≤ 0.1mm	Accept, if L ≤ 5mm and the distance from any scratch mark or any impurity > 20mm
		Reject, if L ≤ 5mm and the distance from any scratch mark or any impurity < 20mm
		Reject, if L > 5mm
	W > 0.1mm	Reject
Glass Breakage	Please refer to the relevant specifications for touch panel involved	

Remark: the above inspection standard can be more strict as per customer's special requirement

Electrical

Maximum Circuit: DC 5V,1mA

Resistance Between Leads: as per customer

Insulation Resistance:10MOHM or more at DC 25V

Chattering Time:Less than 15 ms at DC 5V 0.1mA

Mechanical

Operating Force 100g.f

Transmittance: 80%

Surface Hardness 3H

Remark: The above data can be negotiate specially as per customer's special requirement

Durable

Touch life: 1,000,000 times by the same point

Writing life:100,000 times by the same line

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