

Test Report

Report No: SZES201200875201

Date: 2021-02-09

Applicant : Shenzhen DO Intelligent Technology Co., Ltd.
Floor 11, Building 3, Changyi Industrial Factory, No.1 Lirong Road, Xinshi Community, Dalang Sub-district, Longhua District, Shenzhen, Guangdong, China

Manufacturer: Same as applicant

Test object / Model : Smart Watch / ID206

Test specifications / EN 62368-1: 2014 + A11: 2017
Test standard: BS EN 62368-1: 2014+A11: 2017

Purpose of examination: Test according to the test specification.

Test result: In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification and standards.

Remark: None

Peter He
Project Reviewer
Safety Laboratory

Lumi Liu
Project Engineer



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Safety Laboratory

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1. Function / Description:

Power source	Powered by external power source 5 V d.c., which comply with LPS or internal lithium battery (Model: 552123V, 3,8 Vd.c., 300 mAh)
Function	Bluetooth (Version 5.0), display, watch
Material of enclosure	Plastic enclosure

2. Ratings:

Model: ID206
 Trademark: iDO
 Rated Voltage: --
 Rated Frequency: --
 Rated Power: --
 Rated Current: --
 Protection Class: Class III
 Protection Against Moisture: IPX0
 Construction: Hand-held
 Supply connection: DC connector
 Operation mode: Continuous
 Weight: 0,024 kg

3. Test:

Possible test case verdicts:

- test case does not apply to the test object: N/A (Not Applicable)
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

The tests were done in the Electrical Safety Laboratory of SGS-CSTC in Shenzhen.

Test item was received on 2020-12-30.

Tests were performed from 2020-12-30 to 2021-01-14.

Tma = 45 °C (declared by manufacturer)

Tamb = 22,2 - 23,1 °C

T-type thermocouple used for temperature measurement.

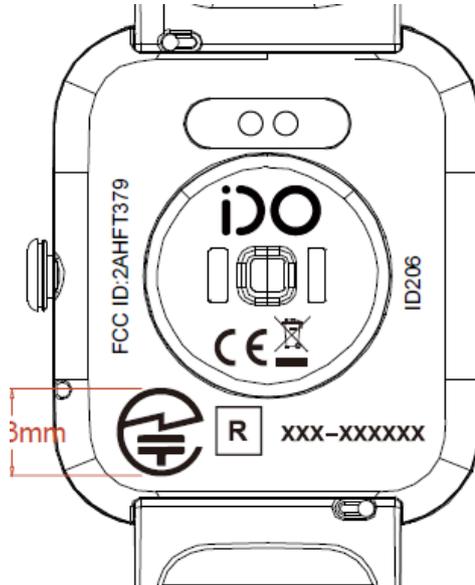


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4. Marking plate:



- As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.
- The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm



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5. Test result:

Clause	Requirement	Remarks	Verdict
4	General requirements		--
4.1	General		P
4.2	Energy source classifications		P
4.3	Protection against energy sources		P
4.4	Safeguard		P
4.5	Explosion		P
4.6	Fixing of conductors		N/A
4.7	Equipment for direct insertion into mains socket-outlets		N/A
4.8	Products containing lithium coin / button cell batteries		N/A
4.9	Likelihood of fire or shock due to entry of conductive objects		P
5	Electrically-caused injury		--
5.1	General	Supplied by 5 Vd.c., less than 60 V d.c., whole unit is classified as ES1	P
5.2	Classification and limits of electrical energy sources	ES1	P
5.3	Protection against electrical energy sources		P
5.4	Insulation materials and requirements		N/A
5.5	Components as safeguards		N/A
5.6	Protective conductor		N/A
5.7	Prospective touch voltage, touch current and protective conductor current		N/A
6	Electrically- caused fire		--
6.1	General		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)	PS2 and no PIS	P
6.3	Safeguards against fire under normal operating conditions and abnormal operating conditions	No occurring of ignition	P
6.4	Safeguards against fire under single fault conditions		P
6.5	Internal and external wiring		N/A



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Clause	Requirement	Remarks	Verdict
6.6	Safeguards against fire due to the connection of additional equipment		N/A
7	Injury caused by hazardous substances		--
7.1	General		P
7.2	Reduction of exposure to hazardous chemicals		N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)		N/A
7.5	Use of instructional safeguards and instructions		N/A
7.6	Batteries and their protection circuits	See Annex M	P
8	Mechanically-caused injury		--
8.1	General		P
8.2	Mechanical energy source classifications	MS1 No exploding parts; Mass < 1 kg;	P
8.3	Safeguards against mechanical energy sources		P
8.4	Safeguards against parts with sharp edges and corners	No sharp edges and corners (by inspection);	P
8.5	Safeguards against moving parts		N/A
8.6	Stability of equipment		N/A
8.7	Equipment mounted to wall or ceiling		N/A
8.8	Handles strength		N/A
8.9	Wheels or casters attachment requirements		N/A
8.10	Carts, stands and similar carriers		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.12	Telescoping or rod antennas		N/A
9	Thermal burn injury		--
9.1	General		P
9.2	Thermal energy source classifications	TS1	P
9.3	Protection against thermal energy sources		P
9.4	Requirement for safeguards		N/A
10	Radiation		--
10.1	General		P



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Clause	Requirement	Remarks	Verdict
10.2	Radiation energy source classifications	RS1	P
10.3	Safeguards against laser radiation		P
10.4	Safeguards against visible, infra-red, and ultra-violet radiation	LED for indicate only	P
10.5	Safeguards against x-radiation		N/A
10.6	Safeguards against acoustic energy sources		N/A
Annex B	Normal operating condition tests, abnormal operating condition tests and single fault condition tests	See relevant test results tables	P
Annex C	UV radiation		N/A
Annex D	Test generators		N/A
Annex E	Test conditions for equipment containing audio amplifiers		N/A
Annex F	Equipment markings, instructions, and instructional safeguards		P
Annex G	Components		P
Annex H	Criteria for telephone ringing signals		N/A
Annex J	Insulated winding wires for use without interleaved insulation		N/A
Annex K	Safety interlocks		N/A
Annex L	Disconnect devices		N/A
Annex M	Equipment containing batteries and their protection circuits		P
M.1	General requirements		P
M.2	Safety of batteries and their cells		P
M.2.1	Requirements	Battery complied with IEC 62133	P
M.2.2	Compliance and test method (identify method)	Separate test report was submitted	P
M.3	Protection circuits		P
M.3.1	Requirements		P
M.3.2	Tests	See table Annex M	P
	- Overcharging of a rechargeable battery		P



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Clause	Requirement	Remarks	Verdict
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery	Reverse charging is unlikely	P
	- Excessive discharging rate for any battery		P
M.3.3	Compliance :	See appended table	P
M.4	Additional safeguards for equipment containing secondary lithium battery		P
M.4.1	General		P
M.4.2	Charging safeguards		P
M.4.2.1	Charging operating limits	Battery operation range: 0 - 60 °C (Confirmed from battery report)	P
M.4.2.2 a)	Charging voltage, current and temperature	See table Annex M.4	P
M.4.2.2 b)	Single faults in charging circuitry	See table Annex M.4	P
M.4.3	Fire Enclosure		P
M.4.4	Endurance of equipment containing a secondary lithium battery	Drop test was performed	P
M.4.4.2	Preparation		P
M.4.4.3	Drop and charge/discharge function tests		P
	Drop	The voltage difference doesn't exceed 5%.	P
	Charge		P
	Discharge		P
M.4.4.4	Charge-discharge cycle test		P
M.4.4.5	Result of charge-discharge cycle test	No fire or explosion	P
M.5	Risk of burn due to short circuit during carrying		P
M.5.1	Requirement		P
M.5.2	Compliance and Test Method (Test of P.2.3)		P
M.6	Prevention of short circuits and protection from other effects of electric current		P
M.6.1	Short circuits		P
M.6.1.1	General requirements		P



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Clause	Requirement	Remarks	Verdict
M.6.1.2	Test method to simulate an internal fault	Have been evaluated in IEC 62133 test report	P
M.6.2	Leakage current (mA)	Battery and enclosure surface: $1,17 \times 10^{-4}$ mA	P
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /s)		N/A
M.8.2.3	Correction factors		N/A
M.8.2.4	Calculation of distance d (mm)		N/A
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	Instruction for battery handling was provided	P
Annex N	Electrochemical potentials		N/A
Annex P	Safeguards against conductive objects		P
Annex Q	Circuits intended for interconnection with building wiring		N/A
Annex R	Limited short circuit test		N/A
Annex S	Tests for resistance to heat and fire		N/A
Annex T	Mechanical strength tests		P
Annex U	Mechanical strength of cathode ray tubes (CRT) and protection against the effects of implosion		N/A



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
<p>(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.)</p>	
Electrically-caused injury (Clause 5):	
<p>(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input ES1</p>	
Source of electrical energy	Corresponding classification (ES)
Whole unit	ES1
Electrically-caused fire (Clause 6):	
<p>(Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): PS2</p>	
Source of power or PIS	Corresponding classification (PS)
Input port	PS2
Battery	PS1
Injury caused by hazardous substances (Clause 7)	
<p>(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component Glycol</p>	
Source of hazardous substances	Corresponding chemical
Battery	N/A
Mechanically-caused injury (Clause 8)	
<p>(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2</p>	
Source of kinetic/mechanical energy	Corresponding classification (MS)
Whole unit	MS1: <7kg
Thermal burn injury (Clause 9)	
<p>(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1</p>	
Source of thermal energy	Corresponding classification (TS)
Whole unit	TS1: Accessible enclosure surface



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ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

Radiation (Clause 10)	
(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	Corresponding classification (RS)
Whole unit	RS1: LED

ENERGY SOURCE DIAGRAM

Indicate which energy sources are included in the energy source diagram. Insert diagram below

ES PS MS TS RS



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OVERVIEW OF EMPLOYED SAFEGUARDS				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	ES1	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
Input port	PS2	Ignition didn't occur; and no part of the equipment attained a temperature value greater than 90 % of the spontaneous ignition temperature limit	Mounted in Min. V-1 PWB	N/A
Battery cell output	PS1	Ignition didn't occur; and no part of the equipment attained a temperature value greater than 90 % of the spontaneous ignition temperature limit	N/A	N/A
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
Battery	Complied with Annex M	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3:High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary person	MS1: <7kg	N/A	N/A	N/A



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9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary person	TS1: Accessible enclosure surface	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary person	RS1: LED	N/A	N/A	N/A
Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault				



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5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements					P
	Supply voltage (V)	5 V d.c. (Only Charge)	-- (Discharge)	5 V d.c. (Only Charge)	-- (Discharge)	—
	Ambient T _{min} (°C)	22,2	22,5	21,7	22,2	—
	Ambient T _{max} (°C)	22,9	23,1	22,4	22,8	—
	T _{ma} (°C)	45	45	45	45	—
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)
For screen model: ZC-T1D69HP-002						
PWB (near U36)	33,0	28,4	--	--	110	
PWB (near U3)	29,1	30,9	--	--	110	
PWB (near U1)	28,0	29,0	--	--	110	
Surface of Lithium battery	28,7	26,7	--	--	Ref.	
Enclosure inside	29,7	27,8	--	--	Ref.	
Surface of screen	24,7	23,9	--	--	48	
Non-metallic enclosure surface (Bottom)	24,1	24,4	--	--	48	
Non-metallic enclosure surface (Side)	24,1	23,7	--	--	48	
Non-metallic button	24,4	24,2	--	--	48	
For screen model: XSJ170HAB1601B-T300						
PWB (near U36)	--	--	33,3	28,7	110	
PWB (near U3)	--	--	29,4	30,6	110	
PWB (near U1)	--	--	27,8	29,3	110	
Surface of Lithium battery	--	--	29,0	27,0	Ref.	
Enclosure inside	--	--	30,0	28,3	Ref.	
Surface of screen	--	--	25,0	24,2	48	
Non-metallic enclosure surface (Bottom)	--	--	23,9	24,2	48	
Non-metallic enclosure surface (Side)	--	--	24,4	23,9	48	
Non-metallic button	--	--	24,1	24,4	48	
Supplementary information: For components with temperature marking, allowed T = T _{max} + T _{amb} - T _{ma} (T _{ma} = 45 °C, T _{amb} =25 °C)						



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Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--

6.2.2 Table: Electrical power sources (PS) measurements for classification						P
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s ^{*)}	PS Classification	
Battery cell	Overload	Power (W) :	11,96	11,04	PS1	
		V _A (V) :	2,6	2,4		
		I _A (A) :	4,6	4,6		
Supplementary Information: Remark: Input port is regarded as PS2 (*) Measurement taken only when limits at 3 seconds exceed PS1 limits						

B.2.5 TABLE: Input test							P
U (Vd.c.)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status
For screen model: ZC-T1D69HP-002							
5,0	0,268	--	1,34	--	--	--	Normal operation and charging lithium battery mode. Lithium Battery: Ucharge = 3,8 → 4,3 Vd.c., Icharge = 0,268 A.
--	--	--	--	--	--	--	Normal operation and battery discharging mode. Lithium Battery: Udischarge = 4,1 Vd.c., Idischarge = 0,040 A max.



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B.2.5		TABLE: Input test						P
U (Vd.c.)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition/status	
For screen model: XSJ170HAB1601B-T300								
5,0	0,270	--	1,35	--	--	--	Normal operation and charging lithium battery mode. Lithium Battery: Ucharge = 3,8 → 4,3 Vd.c., Icharge = 0,270 A.	
--	--	--	--	--	--	--	Normal operation and battery discharging mode. Lithium Battery: Udischarge = 4,1 Vd.c., Idischarge = 0,044 A max.	
Supplementary information: The product cannot charge and play at the same time.								

B.3		TABLE: Abnormal operating condition tests							N/A
Ambient temperature (°C)		--							—
Power source for EUT: Manufacturer, model/type, output rating ...:		--							—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation	
--	--	--	--	--	--	--	--	--	
Supplementary information: Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.									



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B.4		TABLE: Fault condition tests					P	
Ambient temperature (°C)		24,4 – 25,0					—	
Power source for EUT: Manufacturer, model/type, output rating ..		--					—	
Component No.	Fault Condition	Supply voltage, (Vd.c.)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
For screen model: ZC-T1D69HP-002								
U36 (overcharge at fully battery)	s-c pin 1/10	5,0	7 h	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery: Ucharge = 5 Vd.c., Icharge = 0 A. For cell: 4,3 Vd.c.		
U36 (overcharge at empty battery)	s-c pin 1/10	5,0	7 h	--	--	After < 1s, no component damage, input change to 1,86 W, no hazard. For EUT: In = 0,371 A Lithium Battery cell: Ucharge = 3,9→5,0 Vd.c., Icharge = 0,371 A. For cell: Ucharge = 4,3 Vd.c. Non-metallic enclosure surface: 25,4 °C Max. Non-metallic button surface: 25,4 °C		
C244	s-c	--	10 min	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery cell: Udischarge = 4,2 Vd.c., Idischarge = 0 A.		
C243 (over discharge)	s-c	--	10 min	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery cell: Udischarge = 0 Vd.c., Idischarge = 0 A.		



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Motor	Lock	--	7 h	--	--	EUT shut down immediately. No higher temperature rises than normal, no hazard. No component damage, no hazard., no ignition for wrapping tissue or cheesecloth, no hazard. Lithium Battery cell: Udischarge = 4,0 Vd.c., Idischarge = 0,127 A Max.
For screen model: XSJ170HAB1601B-T300						
U36 (overcharge at fully battery)	s-c pin 1/10	5,0	7 h	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery: Ucharge = 5 Vd.c., Icharge = 0 A. For cell: 4,3 Vd.c.
U36 (overcharge at empty battery)	s-c pin 1/10	5,0	7 h	--	--	After < 1s, no component damage, input change to 1,86 W, no hazard. For EUT: In = 0,374 A Lithium Battery cell: Ucharge = 3,9→4,3 Vd.c., Icharge = 0,374 A. Non-metallic enclosure surface: 25,6 °C Max. Non-metallic button surface: 25,6 °C
C244	s-c	--	10 min	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery cell: Udischarge = 4,2 Vd.c., Idischarge = 0 A.
C243 (over discharge)	s-c	--	10 min	--	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard. Lithium Battery cell: Udischarge = 0 Vd.c., Idischarge = 0 A.



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Motor	Lock	--	7 h	--	--	EUT shut down immediately. No higher temperature rises than normal, no hazard. No component damage, no hazard., no ignition for wrapping tissue or cheesecloth, no hazard. Lithium Battery cell: Udischarge = 4,0 Vd.c., Idischarge = 0,136 A Max.
Supplementary information: s-c: short circuit.						

Annex M	TABLE: Batteries								P
The tests of Annex M are applicable only when appropriate battery data is not available									--
Is it possible to install the battery in a reverse polarity position?..... :								No	--
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
For screen model: ZC-T1D69HP-002									
Max. current during normal condition	--	--	--	0,268 A	0,3 A	0,040 A	0,45A	--	--
Max. current during fault condition	--	--	--	0,371 A	0,6 A	0,127 A	0,45 A	--	--
For screen model: XSJ170HAB1601B-T300									
Max. current during normal condition	--	--	--	0,270 A	0,3 A	0,046 A	0,45 A	--	--
Max. current during fault condition	--	--	--	0,374 A	0,6 A	0,136 A	0,45 A	--	--
Remark: --									
Test results:									Verdict
- Chemical leaks								No	P
- Explosion of the battery								No	P
- Emission of flame or expulsion of molten metal								No	P



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- Electric strength tests of equipment after completion of tests	--	N/A
Supplementary information:--		

Annex M.4 Table: Additional safeguards for equipment containing secondary lithium batteries P

Battery/Cell No.	Test conditions	Measurements			Observation
		U (V d.c.)	I (A)	Temp (C)	

For screen model: ZC-T1D69HP-002

552123V	Normal	3,8 → 4,3	0,268	28,7	No hazard
--	Abnormal	--	--	--	--
552123V	Single fault – SC U36 pin 1/10 (overcharge at empty battery)	3,9→5,0	0,371	30,6	No hazard.
552123V	Single fault – SC U36 pin 1/10 (overcharge at fully battery)	4,3	0	--	No hazard.

For screen model: XSJ170HAB1601B-T300

552123V	Normal	3,8 → 4,3	0,270	29,0	No hazard
--	Abnormal	--	--	--	--
552123V	Single fault – SC U36 pin 1/10 (overcharge at empty battery)	3,9→5,0	0,371	30,9	No hazard
552123V	Single fault – SC U36 pin 1/10 (overcharge at fully battery)	4,3	0	--	EUT shut down immediately. No component damage, no higher temperature rises than normal, no hazard

Supplementary Information: --

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{Highest} (°C)	Observation
------------------------	--------------------------------------	-------------	---------------------------------------	-------------

For screen model: ZC-T1D69HP-002

Lithium battery	0	The battery charging circuit stopped charging	60	The battery charging circuit stopped charging
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Test Report

Report No: SZES201200875201

Date: 2021-02-09

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{Highest} (°C)	Observation
For screen model: ZC-T1D69HP-002				
For screen model: XSJ170HAB1601B-T300				
Lithium battery	0	The battery charging circuit stopped charging	60	The battery charging circuit stopped charging
Supplementary Information: --				

T.2, T.3, T.4, T.5	TABLE: Steady force test					P
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation	
Enclosure	Plastic	Min. 1,5	100	5	No visible damage	
Supplementary information: --						

T.7	TABLE: Drop tests					P
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation		
Enclosure	Plastic	Min. 1,5	1000	No visible damage		
Supplementary information:						

T.8	TABLE: Stress relief test					P
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation	
Enclosure	Plastic	Min. 1,5	70	7	No visible damage	
Supplementary information: --						



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6. Component List

object/part No.	manufacturer / trademark	type/model	technical data	Standard	mark(s) of conformity ¹⁾
PWB	SHENZHEN HOPESEARCH PCB MANUFACTURING CO LTD	F-M, F-D	V-0; 130 °C	UL796	UL (E351308)
Plastic material of enclosure	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR3020+	PC, V-0, 80°C, Min. thickness: 1,5 mm	UL94	UL (E41613)
Motor	Guang'an Chaoying Electronic Technology Co., Ltd.	CY0827-00-P13-115WF	3,0 VDC, 90mA Max., 12000 ± 3000rpm	EN62368-1: 2014	Tested with appliance
LCD	JIANGXI HUAERSHENG TECHNOLOGY CO., LTD	ZC-T1D69HP-002	1,69 inch	EN62368-1: 2014	Tested with appliance
Alt.	WEIHAI XINSHIJIE ELECTRONIC TECHNOLOGY CO., LTD	XSJ170HAB1601 B-T300	Active area (WxH): 32,63*27,97 mm	EN62368-1: 2014	Tested with appliance
Lithium battery	ZHONGSHAN ZHONGWANGDE NEW ENERGY TECHNOLOGY CO., LTD	552123V	3,8V, 300mAh, 1,14Wh	IEC 62133-2: 2017	TUV Rheinland (CB Report number: CN20D0W6 001, Certificate number: JPTUV-118072)
LED	LITE-ON TECHNOLOGY CORP.	1616	DC 20 mA	IEC 62471: 2006 First edition / en62471: 2008	SGS-CSTC (Report number: OC-2020-70098)



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7. Photo documentation

Whole view



EUT



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EUT



EUT

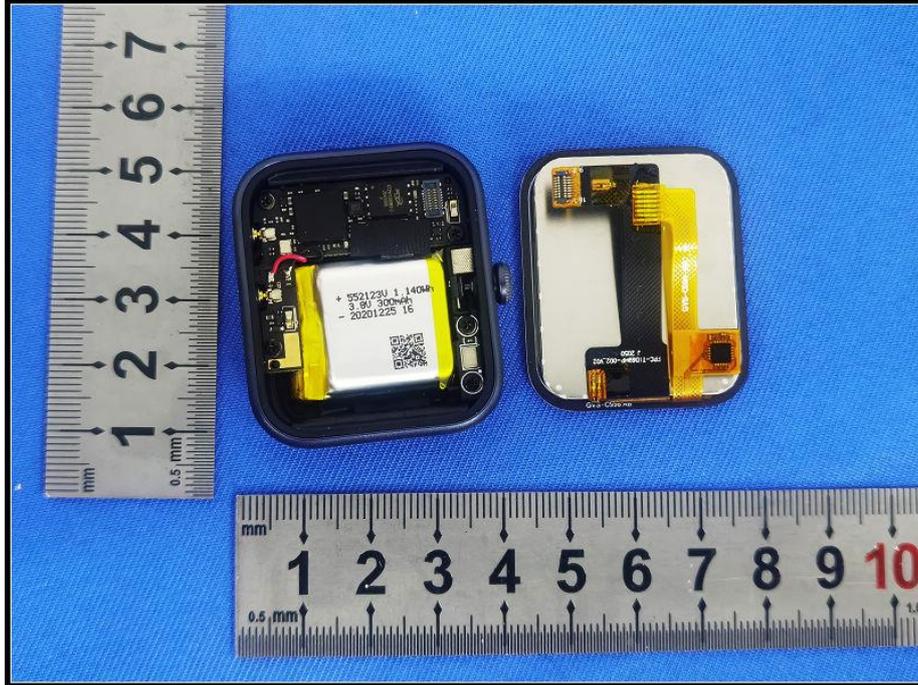


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Internal view



Internal view

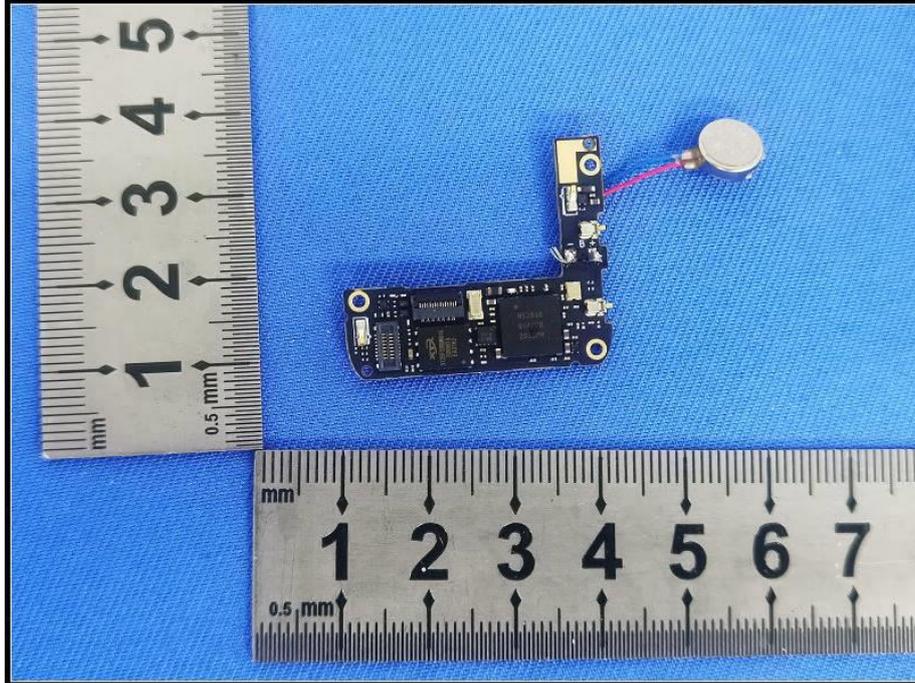


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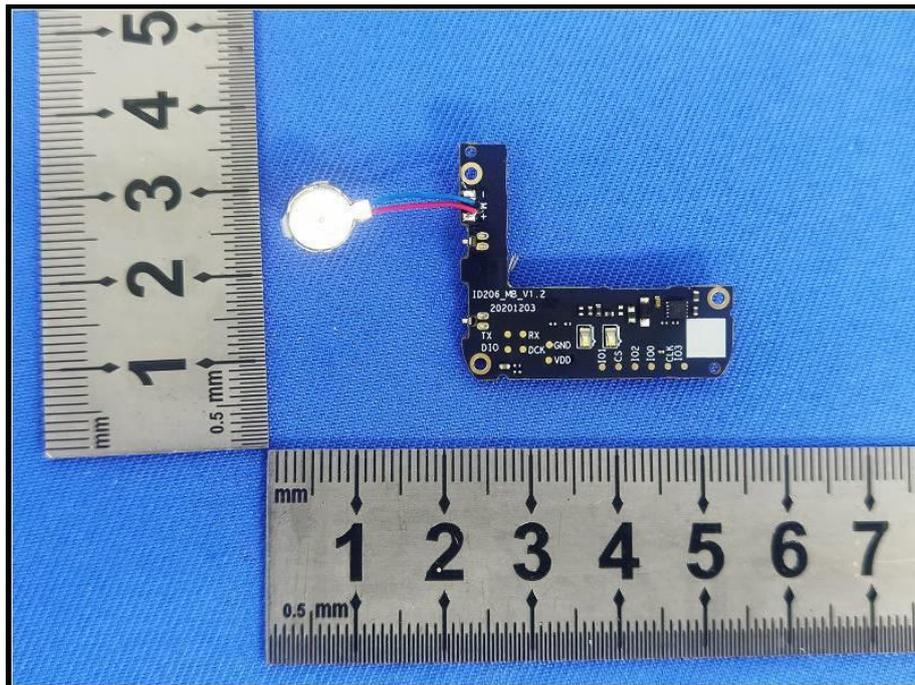
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PWB

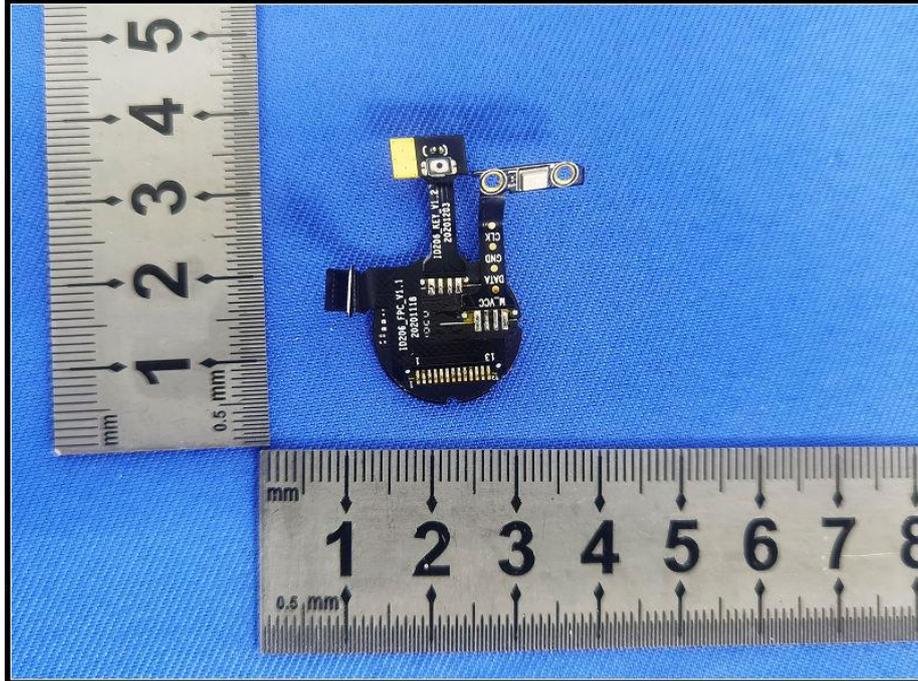


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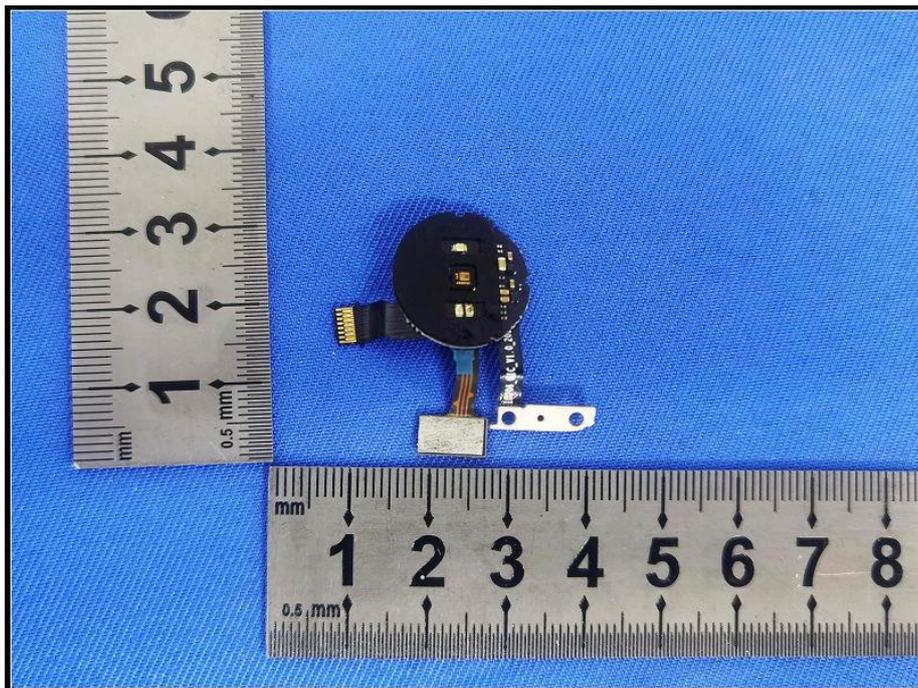


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PWB



PWB



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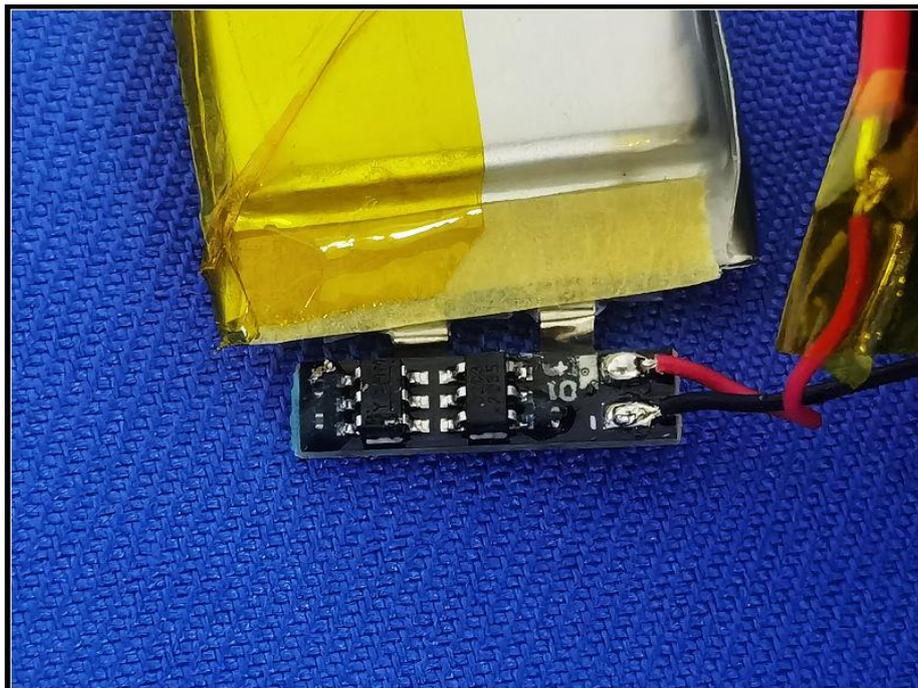
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Battery



PWB of Battery

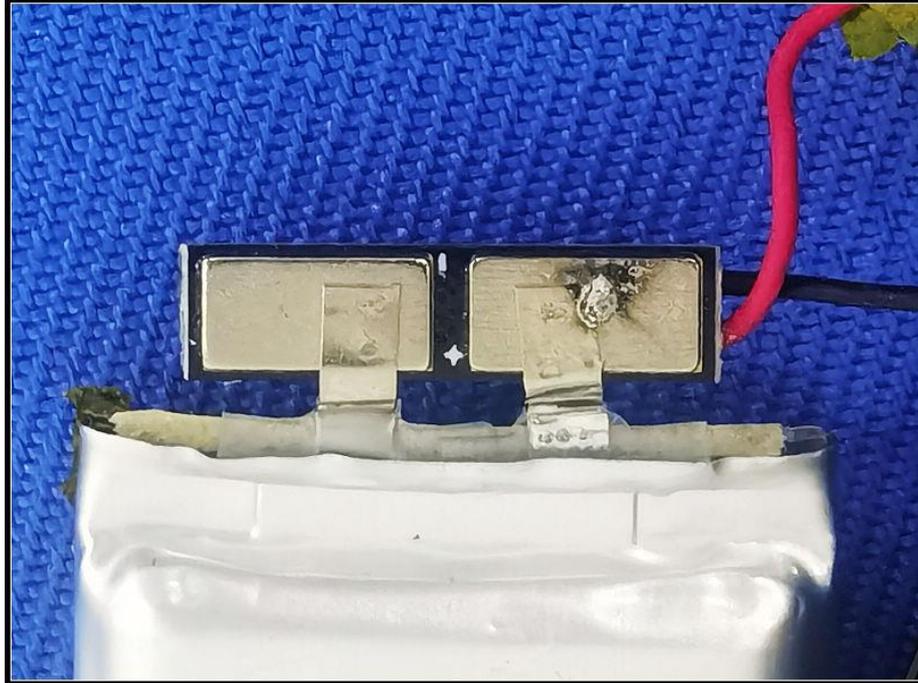


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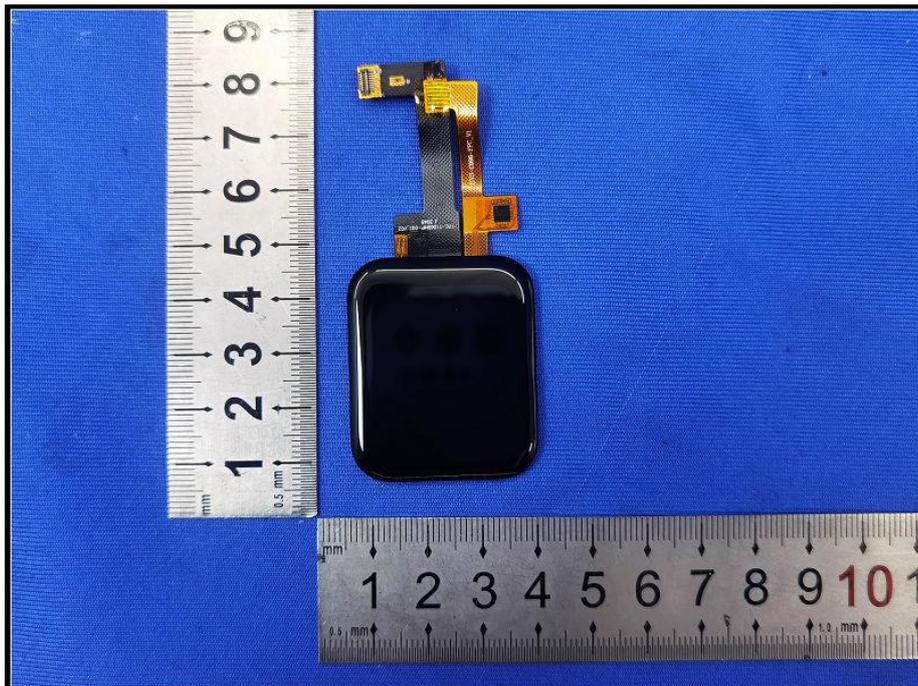
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PWB of Battery



Screen view (For screen model: ZC-T1D69HP-002)



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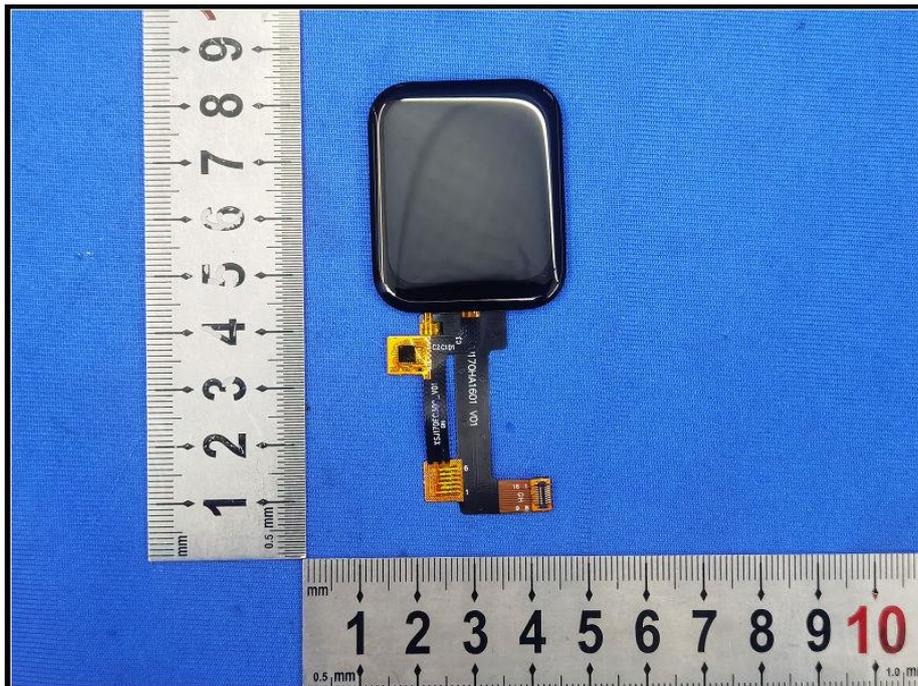
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Screen view (For screen model: ZC-T1D69HP-002)



Screen view (For screen model: XSJ170HAB1601B-T300)

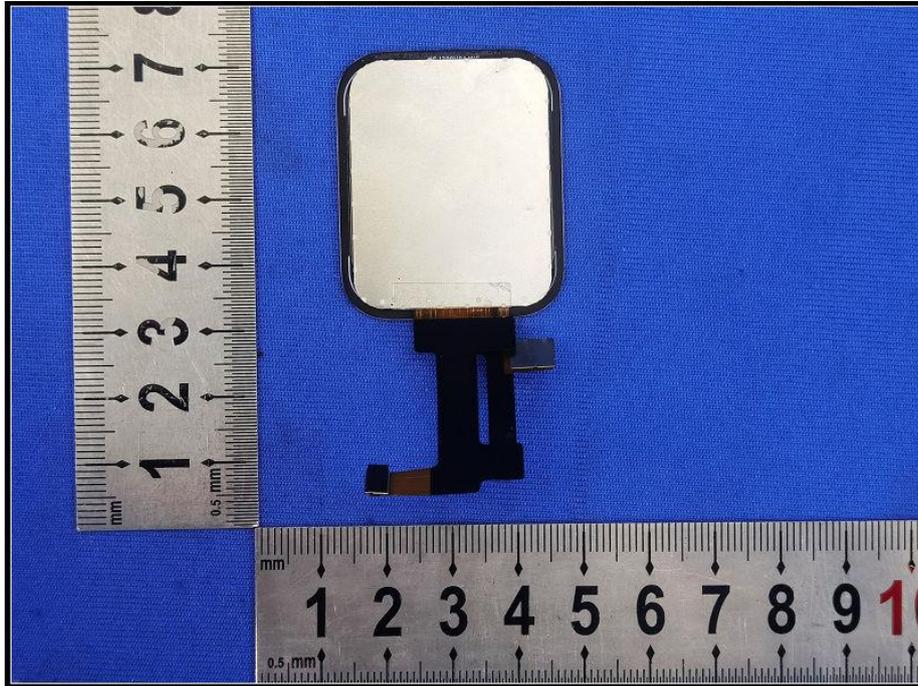


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Screen view (For screen model: For screen model: XSJ170HAB1601B-T300)



NOTES TO THIS TEST REPORT

- The following language(s) of marking(s) and instruction sheets were submitted during the test application:
 - English
 - Throughout this report a comma is used as the decimal separator.

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

- The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
 - the certification record(s) and/or test report submitted by the applicant; or
 - component / material tested with the appliance
 Detail shall be referred to the component list on the appendix of this test report.

- - - End of Report - - -



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