

Global United Technology Services Co., Ltd.

Report No.: GTS201707000039E01

TEST REPORT

Shenzhen Sunricher Technology Limited Applicant:

3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third **Address of Applicant:**

road, No.72 area, Xin'an Street, Baoan District, Shenzhen, China

Shenzhen Sunricher Technology Limited Manufacturer/Factory:

3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third Address of

road, No.72 area, Xin'an Street, Baoan District, Shenzhen, China Manufacturer/Factory:

Equipment Under Test (EUT)

RF LED CONTROLLER Product Name:

Transmitter: SR-2835DIM, SR-2836D, SR-2835DIM(2PIN), Model No.:

4991706, SR-2835CCT, SR-2835CCT(2PIN), 5991702,

SR-2835RGB, SR-2835N, SR-2835N-CCT, SR-2835N-RGB,

SR-2836NF, SR-2836R, SR-2836RCCT, SR-2836RGB,

SR-2836DCCT, SR-2836DRGB

Receiver: SR-1009CS, SR-1009CS3, SR-1009CS7

ETSI EN 301 489-3 V2.1.1 (2017-03) Applicable standards:

ETSI EN 301 489-1 V2.2.0 (2017-03)

July 06, 2017 Date of sample receipt:

Date of Test: July 07-12, 2017

Date of report issue: July 13, 2017

Pass * Test Result:

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	July 13, 2017	Original

Prepared By:	Joseph Cu	Date:	July 13, 2017	
	Project Engineer			
Check By:	Andy wa	Date:	July 13, 2017	
	Reviewer			



3 Contents

			Page
1	COV	ER PAGE	1
2	VER	SION	2
3	CON	ITENTS	3
4	TES	T SUMMARY	4
5	GEN	ERAL INFORMATION	5
5	5.1	GENERAL DESCRIPTION OF EUT	
5	5.2	OPERATING MODES	
5	.3	DESCRIPTION OF SUPPORT UNITS	
5	5.4	DEVIATION FROM STANDARDS	
5	5.5	ABNORMALITIES FROM STANDARD CONDITIONS	5
5	6.6	TEST FACILITY	
5	5.7	TEST LOCATION	6
6	TES	T INSTRUMENTS LIST	7
7	EMC	REQUIREMENTS SPECIFICATION IN ETSI EN 301489-3	9
7	'.1	EMISSION	
		Radiated Emission	
7	.2	IMMUNITY	
		Slectrostatic Discharge	
	7.2.2	Radiated Immunity	14
8	TES	T SETUP PHOTO	16
9	EUT	CONSTRUCTIONAL DETAILS	19



4 Test Summary

EMI Test				
Test Item	Test Requirement	Test Method	Application	Result
Radiated Emission	ETSI EN 301 489-3	ETSI EN301 489-1	Enclosure	Pass
Conducted Emission	ETSI EN 301 489-3	ETSI EN301 489-1	AC port	N/A
Harmonic Current Emissions	ETSI EN 301 489-3	ETSI EN301 489-1	AC port	N/A
Voltage Fluctuations and Flicker	ETSI EN 301 489-3	ETSI EN301 489-1	AC port	N/A
EMS Test				
ESD (Electrostatic Discharge)	ETSI EN 301 489-3	EN 61000-4-2	Enclosure	Pass
Radiated Immunity, 80MHz to 6 GHz	ETSI EN 301 489-3	EN 61000-4-3	Enclosure	Pass
EFT (Electrical Fast Transients	ETSI EN 301 489-3	EN 61000-4-4	AC port	N/A
Surge Immunity	ETSI EN 301 489-3	EN 61000-4-5	AC port	N/A
Injected Currents 150kHz to 80MHz	ETSI EN 301 489-3	EN 61000-4-6	AC port	N/A
Voltage Dips and Interruptions	ETSI EN 301 489-3	EN 61000-4-11	AC port	N/A

Pass: The EUT complies with the essential requirements in the standard.

N/A: not applicable.



5 General Information

5.1 General Description of EUT

Product Name:	RF LED CONTROLLER			
	Transmitter: SR-2835DIM, SR-2836D, SR-2835DIM(2PIN), 4991706,			
	SR-2835CCT, SR-2835CCT(2PIN), 5991702, SR-2835RGB, SR-2835N,			
Model No.:	SR-2835N-CCT, SR-2835N-RGB, SR-2836NF, SR-2836R, SR-2836RCCT,			
	SR-2836RGB, SR-2836DCCT, SR-2836DRGB			
	Receiver: SR-1009CS, SR-1009CS3, SR-1009CS7			
T (M) M	Transmitter: SR-2835DIM			
Test Model No.:	Receiver: SR-1009CS			
	dels are identical in the same PCB layout, interior structure and electrical are color and model name for commercial purpose.			
Operation Frequency:	869.5MHz (Declared by manufacturer)			
Modulation type:	FSK(Declared by manufacturer)			
Power supply:	TX: SR-2835DIM DC 3.0V (1 x 3V"CR2430"Button cell)			
	RX: DC12-48V			

5.2 Operating Modes

	Operation mode	Keep the EUT in normal Operation mode.
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5.3 Description of Support Units

- company of outpersonal						
Manufacturer	Description	Model	Serial Number			
GS	Supreme maintenance Free	S5D26R-MFZ	9442804454			

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.



5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.7 Test Location

RI test was performed at:

China Shenzhen Academy of Metrology and Quality Inspection,

Metrology and Quality Inspection building, Central Section of LongZhu Road, Nan Shan, Shenzhen

All other tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Radia	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 28 2017	June. 27 2018	
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 28 2017	June. 27 2018	
5	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 28 2017	June. 27 2018	
6	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June. 28 2017	June. 27 2018	
7	RF Amplifier	HP	8347A	GTS204	June. 28 2017	June. 27 2018	
8	RF Amplifier	HP	8349B	GTS206	June. 28 2017	June. 27 2018	
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 28 2017	June. 27 2018	
10	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
11	Coaxial Cable	GTS	N/A	GTS211	June. 28 2017	June. 27 2018	
12	Coaxial Cable	GTS	N/A	GTS210	June. 28 2017	June. 27 2018	
13	Coaxial Cable	GTS	N/A	GTS212	June. 28 2017	June. 27 2018	
14	Thermo meter	N/A	N/A	GTS256	June. 28 2017	June.27 2018	
15	D.C. Power Supply	Instek	PS-3030	GTS232	June. 28 2017	June. 27 2018	
16	Amplifier(100kHz-3GHz	HP	8347A	GTS204	June. 28 2017	June. 27 2018	
17	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June. 28 2017	June. 27 2018	
18	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 28 2017	June. 27 2018	
19	Band filter	Amindeon	82346	GTS219	June. 28 2017	June. 27 2018	

ESD						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	ESD Simulator	KIKUSUI	KES4021A	GTS242	June. 28 2017	June. 27 2018
2	Thermo meter	KTJ	TA328	GTS243	June. 28 2017	June. 27 2018



Radi	Radiated Immunity:						
Item	Test Equipment	Manufacturer	Model No.	Serial NO.	Cal.Date (mm-dd-yy)	Cal.Due Date (mm-dd-yy)	
1	Signal Generator	Rohde & Schwarz	SMT03	100059	Jan. 16 2017	Jan. 15 2018	
2	Power Amplifier	AR	150W1000	300999	Jan. 16 2017	Jan. 15 2018	
3	Power Amplifier	AR	25S1G4AM1	305993	Jan. 16 2017	Jan. 15 2018	
4	Power Amplifier	AR	150A220M6	305965	Jan. 16 2017	Jan. 15 2018	
5	Broadband antenna	CHASE	CBL6111C	2576	Jan. 16 2017	Jan. 15 2018	
6	Horn Antenna	AR	AT4002A	2783	Jan. 16 2017	Jan. 15 2018	

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	GTS243	June.28 2017	June. 27 2018	
2	Barometer	ChangChun	DYM3	GTS255	June. 28 2017	June. 27 2018	



7 EMC Requirements Specification in ETSI EN 301489-3

7.1 Emission

7.1.1 Radiated Emission

Test Requirement:	ETSI EN 301 489-3					
· · · · · · · · · · · · · · · · · · ·		ETSI EN 301 489-1 and EN55016-2-3				
Test Method:		⊏IN550	110-2-3			
Test Frequency Range:	30MHz to 1GHz					
Test site:	Measurement Distance:		T			
Receiver setup:	Frequency Dete		RBW	VBW	Value	
1 2	30MHz-1GHz Quasi-peak 100kHz 300kHz Quasi-peak Frequency Limit (dBuV/m @3m) Value					
Limit:	Frequency Limit (dBuV/m @3m) Value 30MHz-230MHz 40.00 Quasi-peak					
	230MHz-1GHz					
	200WHZ-10HZ 47.00 Quasi-peak					
Test setup:	(Turntable) Ground Ro	g g g g g g g g g g g g g g g g g g g	Antenna To	wer		
Test Procedure:	 The radiated emission chamber. The tabletop EUT with the ground reference EUT was placed on separated from meta 0.1m of insulation. Before final measure performed in the spetting maximum amice. 	as place e plane the hor allic cor ements ectrum	ed upon a r . And for florizontal grountact with the of radiated mode with the second contracts are second contracts.	non-metallic or-standing and reference ground re emissions, the peak de	c table 0.8m above g arrangement, the ce plane, but eference plane by a pre-scan was stector to find out	
	the maximum emissions spectrum plots of the EUT. 4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.					
Test environment:	Temp.: 25 °C	Humid.	.: 50%	Press	s.: 1 010mbar	
Measurement Record:			o .	Unc	ertainty: ± 4.5dB	
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for o	etails				
Test results:	Pass					
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Measurement Data Below 1GHz

	BCION TOTIL							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarity
44.90	26.84	12.25	0.72	30.02	9.79	40.00	-30.21	Vertical
103.81	32.30	11.80	1.22	29.68	15.64	40.00	-24.36	Vertical
190.41	25.53	9.70	1.79	29.23	7.79	40.00	-32.21	Vertical
359.19	25.40	14.68	2.67	29.69	13.06	47.00	-33.94	Vertical
631.69	23.81	19.46	3.84	29.27	17.84	47.00	-29.16	Vertical
900.15	24.05	22.20	4.85	29.10	22.00	47.00	-25.00	Vertical
52.76	26.49	11.93	0.80	29.98	9.24	40.00	-30.76	Horizontal
107.13	25.97	11.50	1.25	29.65	9.07	40.00	-30.93	Horizontal
237.48	26.03	11.46	2.06	29.54	10.01	47.00	-36.99	Horizontal
401.84	25.16	15.50	2.86	29.49	14.03	47.00	-32.97	Horizontal
663.47	25.16	19.61	3.96	29.24	19.49	47.00	-27.51	Horizontal
909.67	25.08	22.25	4.88	29.10	23.11	47.00	-23.89	Horizontal

Above 1GHz

Peak measurement

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarity
1525.00	39.59	25.17	4.70	33.65	35.81	70.00	-34.19	Vertical
2130.00	36.76	27.32	5.11	34.32	34.87	70.00	-35.13	Vertical
2805.00	34.57	28.42	5.76	33.55	35.20	70.00	-34.80	Vertical
3770.00	30.90	29.33	7.46	32.44	35.25	74.00	-38.75	Vertical
4490.00	29.69	31.32	8.33	31.93	37.41	74.00	-36.59	Vertical
5940.00	28.15	32.82	10.11	32.16	38.92	74.00	-35.08	Vertical
1785.00	38.75	25.23	4.85	34.08	34.75	70.00	-35.25	Horizontal
2375.00	36.02	27.65	5.36	34.03	35.00	70.00	-35.00	Horizontal
3015.00	35.44	28.50	5.96	33.30	36.60	74.00	-37.40	Horizontal
3465.00	37.13	28.87	6.89	32.79	40.10	74.00	-33.90	Horizontal
4015.00	33.32	29.71	7.88	32.17	38.74	74.00	-35.26	Horizontal
5370.00	29.76	31.77	9.33	32.36	38.50	74.00	-35.50	Horizontal

Remark:

- 1. The EUT was test at 3m in field chamber.
- 2. If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.

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7.2 Immunity

Danis and a Colin I	(FTO) FN 004 400 0 - James 0
Continuous phenomena applied to transmitters (CT)	 During the test, the uplink speech output level shall be at least 35 dB less than the previously recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (audio breakthrough check). At the conclusion of the test, the EUT shall operate as intended with no loss of user control functions or stored data, and the communication link shall have been maintained. In addition to confirming the above performance during a call, the test shall also be performed in idle mode, and the transmitter shall not unintentionally operate.
Transient phenomena applied to Transmitters (TT)	 At the conclusion of each exposure the EUT shall operate with no user noticeable loss of the communication link. At the conclusion of the total test comprising the series of individual exposures, the EUT shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communication link shall have been maintained. In addition to confirming the above performance during a call, the test shall also be performed in idle mode, and the transmitter shall not unintentionally operate.
Continuous phenomena applied to Receivers (CR)	 During the test, the RXQUAL of the downlink shall not exceed the value of three, measured during each individual exposure in the test sequence. During the test, the downlink speech output level shall be at least 35 dB less than the previously recorded reference levels, when measured through an audio band pass filter of width 200 Hz, centred on 1 kHz (audio breakthrough check). At the conclusion of the test, the EUT shall operate as intended with no loss of user control the The communication link shall have been maintained.
Transient phenomena applied to Receivers (TR)	 At the conclusion of each exposure the EUT shall operate with no user noticeable loss of the communication link. At the conclusion of the total test comprising the series of individual exposures, the EUT shall operate as intended with no loss of user control functions or stored data, as declared by the manufacturer, and the communication link shall have been maintained
Ancillary equipment tested on a stand alone basis	If ancillary equipment is intended to be tested on a stand alone basis, the performance criteria described in the clauses above are not appropriate, then the manufacturer shall declare, for inclusion in the test report, his own specification for an acceptable level of performance or degradation of performance during and/or after the immunity tests. The performance specification shall be included in the product description and documentation.



7.2.1 Electrostatic Discharge

	•					
Test Requirement:	ETSI EN 301 489-3					
Test Method:	EN 61000-4-2					
Discharge Voltage:	Contact Discharge: ±4kV					
	Air Discharge: ±2kV, ±4kV, ±8kV					
	HCP/VCP:±4kV					
Polarity:	Positive & Negative					
Number of Discharge:	Contact Discharge: Minimum 10 times at each test point,					
	Air Discharge: Minimum 10 times at each test point.					
Discharge Mode:	Single Discharge					
Discharge Period:	1 second minimum					
Limit:	Criteria B					
Test setup:	Electrostatic Discharge EUT VCP(0.5m*0.5m) 470K ohm Non-Conducted Table					

Test Procedure:

1. Air discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

Ground Reference Plan

2. Contact Discharge:

The test was applied on conductive surfaces of EUT. the generator was re-triggered for a new single discharge and repeated 25 times for each pre-selected test point. the tip of the discharge electrode was touch the EUT before the discharge switch was operated.

3. Indirect discharge for horizontal coupling plane

At least 10 single discharges shall be applied at the front edge of each HCP opposite the centre point of each unit of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

Consideration should be given to exposing all sides of the EUT.

4. Indirect discharge for vertical coupling plane

At least 10 single discharges were applied to the center of one vertical

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1(cpoi(140:: 0102017070000020					
	edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.				
Test environment:	Temp.: 24 °C Humid.: 51% Press.: 1 010mbar				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

leasurement Recor	d:									
Test points:	I: Metal, Screws									
rest points.	II: Key press, Screen, C	: Key press, Screen, Gap, Holes								
Direct discharge										
Discharge Voltage (KV)	Type of discharge	Test points	Observations Performance	Result						
± 2, ± 4	Contact	I	Α	Pass						
± 2, ± 4,± 8	Air	Pass								
Indirect discharge										
Discharge Voltage (KV)	Type of discharge	Test points	Observation Performance	Result						
± 2, ± 4	HCP-Bottom/Top/ Front/Back/Left/Right	Edge of the HCP	А	Pass						
± 2, ± 4	VCP-Front/Back /Left/Right	Center of the VCP	А	Pass						

Remark:

A: No degradation in performance of the EUT was observed.



7.2.2 Radiated Immunity

7.2.2 Radiated Immunity	
Test Requirement:	ETSI EN 301 489-3
Test Method:	EN 61000-4-3
Frequency range:	80MHz to 6GHz
Test Level:	3V/m
Modulation:	80%, 1kHz Amplitude Modulation
Performance Criterion:	Criteria A
Test setup:	Camera Antenna Tower AE EUT Ground Reference Plane Signal Generator Amplifier
Test Procedure:	 For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area). The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Where the frequency range was swept incrementally, the step size was not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0,5 s. The test normally was performed with the generating antenna facing each side of the EUT. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to monitor the performance of the EUT.

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Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 010mbar
Test Instruments: Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Measurement Record:

Frequency	Level	Modulation	Antenna Polarization	EUT Face	Observations (Performance Criterion)
		1 kHz, 80 % Amp. Mod, 10 % increment, dwell time=3seconds	V		А
			Н	Front	Α
			V	Rear	Α
	3 V/m		Н		Α
			V	Left	А
80 MHz-6 GHz			Н		Α
			V	Right	Α
			Н		Α
			V	Тор	Α
			Н		Α
			V		Α
			Н	Bottom	Α

Remarks:

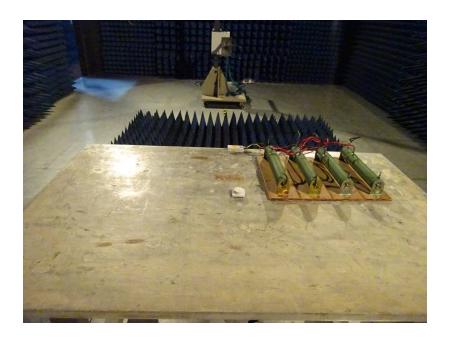
A: No degradation in performance of the EUT was observed.



8 Test Setup Photo

Radiated Emission







Electrostatic discharge







RS



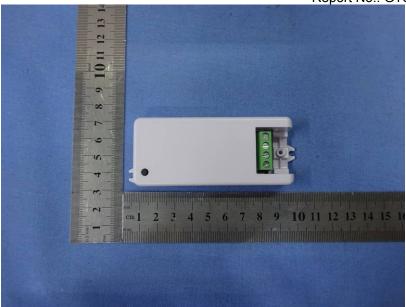


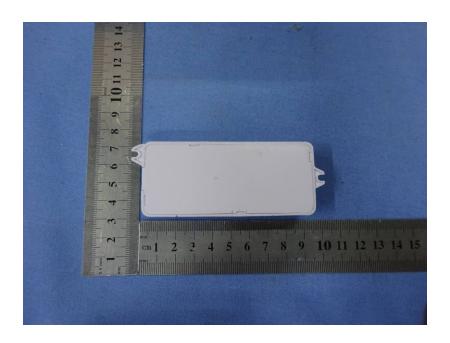
9 EUT Constructional Details



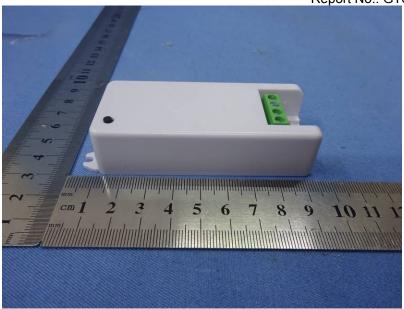


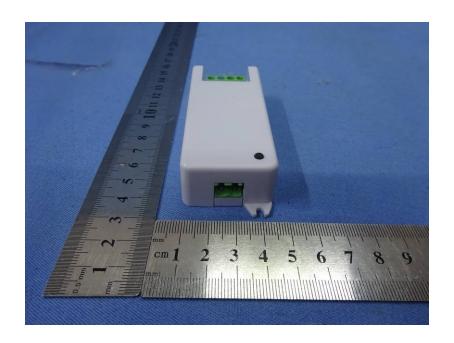




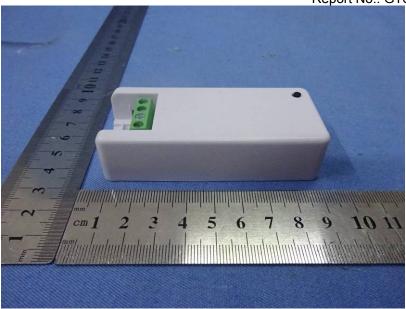


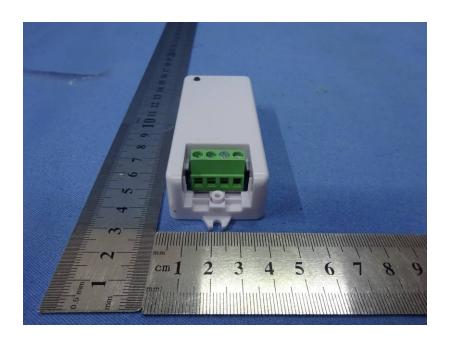




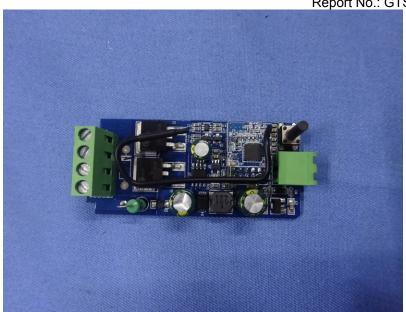


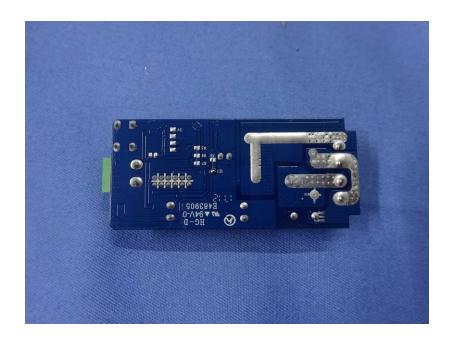
















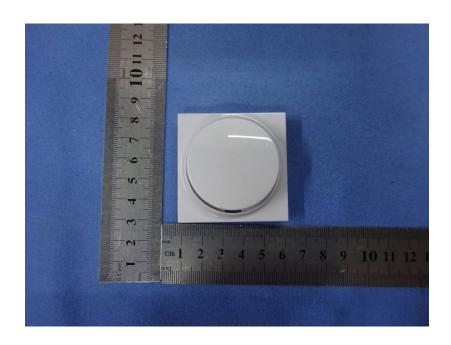


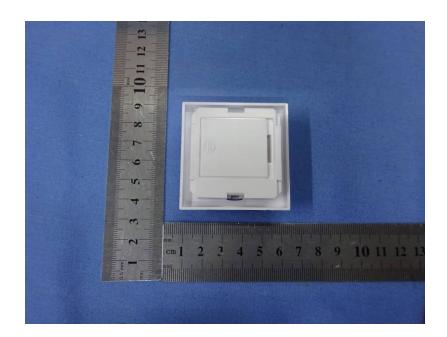




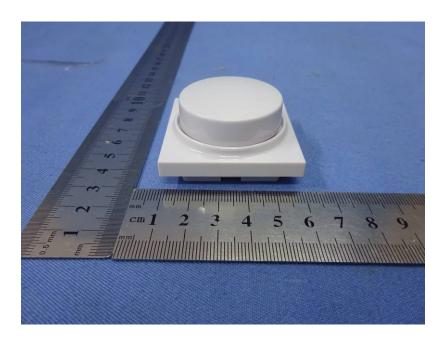


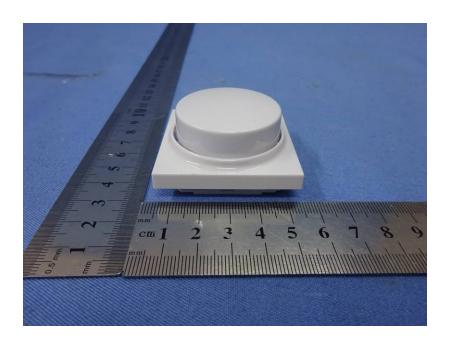
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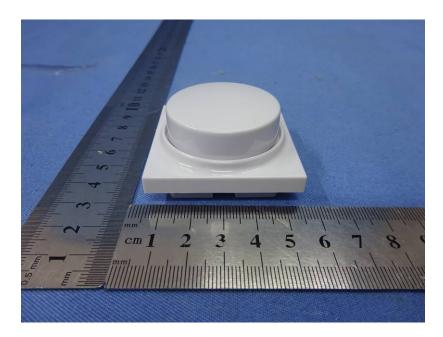


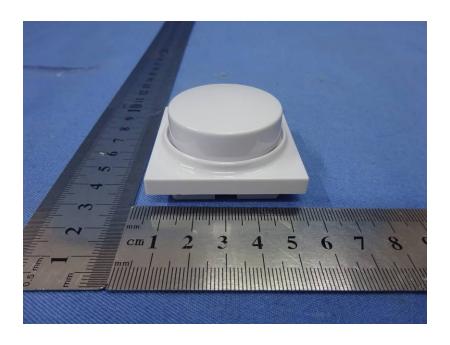




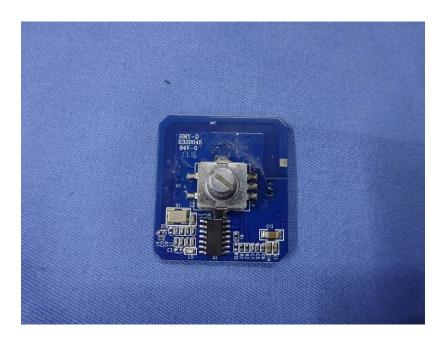








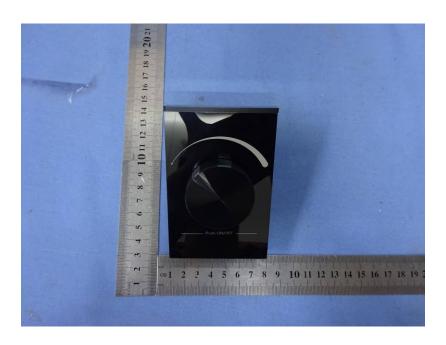


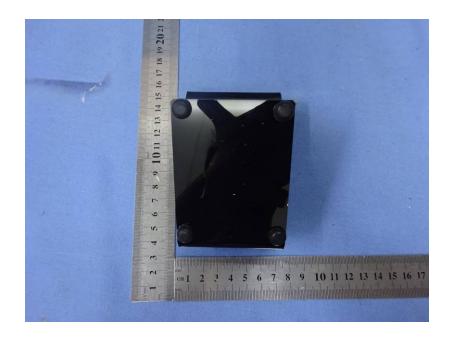




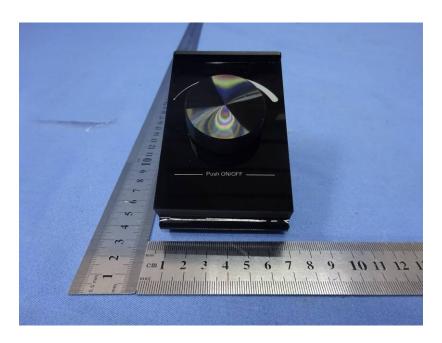


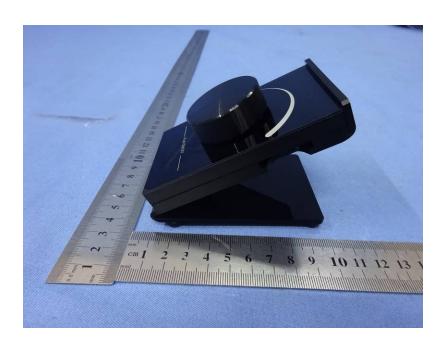
SR-2836D



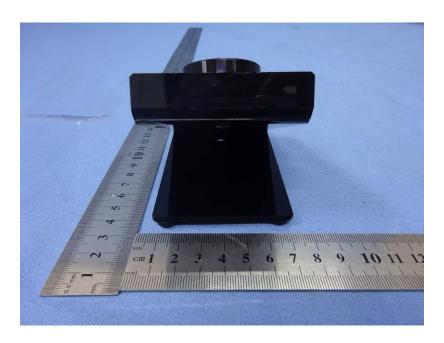






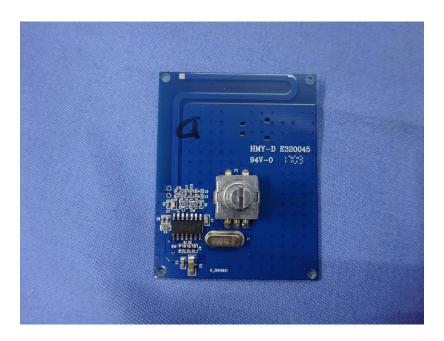














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