

TEST REPORT

Applicant : SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address : Fenda Hi-Tech Park, Zhoushi Road, Shiyao Town, Baoan District, Shenzhen City, Guangdong, China
Manufacturer : SHENZHEN FENDA TECHNOLOGY CO., LTD.
Address : Fenda Hi-Tech Park, Zhoushi Road, Shiyao Town, Baoan District, Shenzhen City, Guangdong, China
Product Name : 2.0 Multimedia Speaker
Trade Mark : F&D
Model No. : R40BT, R44BT, R50BT, R55BT, R27BT, R24BT, R25BT
Ratings : 100-240V~, 50/60Hz, 0.7A
Test procedures : COMMISSION REGULATION (EC) No 1275/2008 of 17 December 2008 implementing Directive 2009/125/EC, 2012/27/EU and 2013/12/EU of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment.
 COMMISSION REGULATION (EU) No 801/2013 of 22 August 2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment.
 COMMISSION REGULATION (EU) 2016/2282 of 30 November 2016 amending Regulations (EC) No 1275/2008
Test method : EN 50564:2011. Electrical and electronic household and office equipment — Measurement of low power consumption
Date of Receiver : July 04, 2019
Date of Test : July 05, 2019 to July 08, 2019
Date of Issue : July 15, 2019
Test Report Form No : NTCS-EC No 1275/2008-A1-E
Test Result : Pass *

This Test Report is Issued Under the Authority of :

Compiled by



Jenny So/ Engineer

Approved by & Authorized Signer

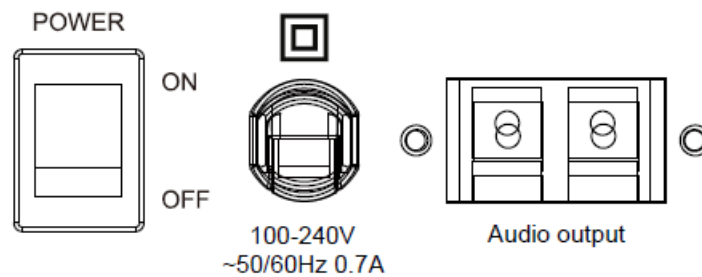
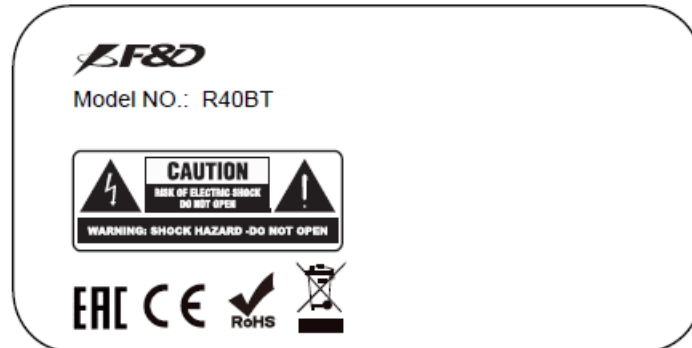


Ryan Luo / Authorized Signatory

*Remarks:

The 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 Dongguan Nore Testing Center Co., Ltd. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Copy of marking plate:



Remarks:

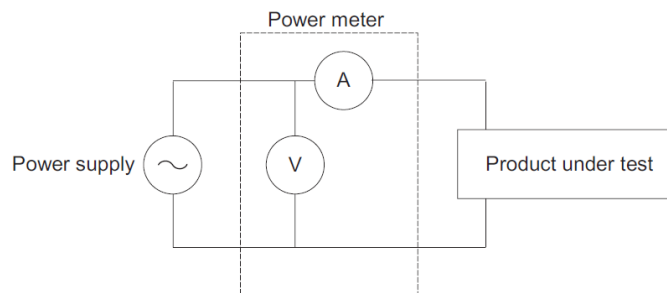
1. The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
2. The CE marking and WEEE symbol should be at least 5.0mm and 7.0mm respectively in height.
3. Marking label of all models are identical to each other except for model number and trade mark.

Summary of testing:

The product meets the requirements stage 2 of the implementation measure and it's amendments. It is not defined as a network product by manufacturer.

Test item particulars	
Declared Off mode power: (W)	<0.5
Declared Standby mode power: (W)	<0.5
Declared Network standby power: (W)	No Network function
Construction:	
External Power supply	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mains switch	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Coffee machine type	<input type="checkbox"/> Drip filter with insulated jug <input type="checkbox"/> with none insulated jug, <input type="checkbox"/> Other: N/A
Source of information used to establish product modes:	<input checked="" type="checkbox"/> instructions for use <input type="checkbox"/> technical justification
Networked products:	
HiNA equipment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
HiNA functionality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Networked:	
Wireless	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wired	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Possible test case verdicts:	
- test case does not apply to the test object	N(N/A)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
General remarks:	
<p>"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory</p>	
General product information:	
<p>1. The product covered by this report is a 2.0 Multimedia Speaker for Audio, Video and similar electronic apparatus, Class II equipment. It is combined with one Active Speaker and one Passive Speaker.</p> <p>2. All models covered by this report are identical, except model number, trade mark and appearance of enclosure (for color and silk-screen only) for marketing purpose. If no otherwise specified, all the tests were conducted on model R40BT to represent other models.</p>	

Clause	Requirement + Test	Result - Remark	Verdict
0	General		P
0.1	Ambient condition met requirement of: Ambient temperature (23 ±5)°C Airspeed ≤0.5m/s (EN 50564 cl.4.2)	Ambient: 26.5°C Airspeed: 0.1m/s	P
0.2	Where the product has an ambient light sensor that affects the power consumption, the test shall be carried out with controlled ambient light conditions. Where the illuminance levels are externally defined (in a test procedure or in the instructions for use), these values shall be used. Where no illuminance levels are stated or defined, reference illuminance levels of >300 lx and <10 lx shall be used. (EN 50564 cl.4.2)		N
0.3	Power source mets requirement of: Voltage 230V±1% Frequency 50Hz ±1% THD value <2% ratio of peak value of test voltage to rms of 1.34 to 1.49 (EN 50564 cl.4.3.1, 4.3.2)	Voltage: 230 V~ Frequency: 50.0Hz THD: 0.9%	P
0.4	Test approach used		P
	- Sampling method Note: to be used when power is not stable (cyclic or unstable) or limited duration (EN 50564 cl.5.3.2)		N
	- Average reading method Note: to be used when power and mode is Stable (EN 50564 cl.5.3.3)		N
	- Average power approach		N
	- Accumulated energy approach		P
	- Direct meter reading method Note: to be used when power and mode is stable, not for verification purposes (EN 50564 cl.5.3.4)		N
0.5	Power measurement uncertainty		P
	Power measurement uncertainty established (EN 50564 cl. 4.4.1)		P
0.6	Test circuit		--
	- Test circuit acc. to Fig.1 is used		N
	- Other test circuit is used	See below	P



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Clause	Requirement + Test	Result - Remark	Verdict
Annex II	Ecodesign requirements		P
1.	OFF- mode (cl. 1.a & 2.a)		P
1.1	Measured power consumption in Off mode:		P
1.1.1	Power consumption in any off mode function		P
	- Stage 1 limit: $\leq 1.00W$		N
	- Stage 2 limit: $\leq 0.50W$	Refer to test table 1	P
2.	Standby mode (cl. 1.b & 2.b)		P
2.1	Measured power consumption in Standby mode:		P
2.1.1	Product only with reactivation or with reactivation and a mere indication:		P
	- Stage 1 limit: $\leq 1.00W$		N
	- Stage 2 limit: $\leq 0.50W$	Refer to test table 1	P
2.1.2	Product with only information or status display , or only a combination of reactivation and information or status display :		N
	- Stage 1 limit: $\leq 2.00W$		N
	- Stage 2 limit: $\leq 1.00W$		N
3.	Availability of off mode and /or standby mode (cl. 1.c & 2.c)		P
	Inappropriate for intended use to provide Standby and/or OFF-mode		N
	Standby-mode available	Complied	P
	Off-mode available	Complied	P
	another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode available		N
4.	Power management for all equipment other than networked equipment (from Stage 2) (cl. 2 d)		P
	Power management shall be activated	Complied	P
	Switch to standby mode	Refer to test table 1	P
	Switch to off mode		N
	Another condition meeting to Standby or Off-mode when connected to the mains power:		N
	Inappropriate for intended use to provide Power management or similar function		N
5.	Coffee machines (from stage 3) (1.1.2015) (cl. 6)		N
	Machines shall switch automatically to standby, off or similar mode :		N
5.1	Drip filter coffee machines with insulated jug		N
	After last brewing cycle ≤ 2 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
5.2	Drip filter coffee machines with non-insulated jug		N
	After last brewing cycle ≤ 40 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
5.3	Other coffee machines		N
	After last brewing cycle ≤ 30 min		N

	After activation of heating element ≤ 30 min		N
	After activation of cup preheating function ≤ 60 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
	Unless an alarm has been triggered requiring users intervention to prevent damage or accident		N
6.	Networked equipment		N
6.1	From Stage 3 (1.1.2015) (cl.3)		N
6.1.1	Wireless network		N
	Wireless network connection does offer the user the possibility to deactivate the wireless network connection(s)		N
	Excluded from above when equipment relies only on a single wireless network connection for intended use and has no wired network connection		N
6.1.1	Power management for networked equipment		N
	Inappropriate for intended use to provide Power management or similar function		N
	May switches into standby, off or similar mode and does not exceed it's limits		N
	Power management function for all network ports		N
	Power management function or similar shall be activated unless all network ports are deactivated.		N
	Default time to networked standby ≤ 20 min		N
6.1.2	Network equipment with one or more standby modes shall comply with requirements for these standby moded(s) when: all network port are deactivated		N
6.1.3	Network equipment other then HiNA equipment shall comply with 'power management requirement for all equipment other than networked equipment' when: all network ports are deactivated		N
6.1.4	Power consumption in network standby		N
	HiNA equipment or equipment HiNA functionality Limit: $\leq 12.00W$		N
	Other networked equipment Limit: $\leq 6.00W$		N
	The limits of this clause shall not apply to: printing equipment with a power supply rated power larger than 750W, large format printing equipment, tele-presence systems, desktop thin clients, workstations, mobile workstations, small-scale servers, computer servers		N
6.2	From Stage 4 (1.1.2017) (cl. 4)		N
6.2.1	Network equipment with one or more standby modes shall comply with requirements for these standby moded(s) when: all wired network port are disconnected and all wireless network ports are deactivated		N

6.2.2	Network equipment other than HiNA equipment shall comply with 'power management requirement for all equipment other than networked equipment' when: all wired network port are disconnected and all wireless network ports are deactivated		N
6.2.3	Power consumption in network standby		N
	HiNA equipment or equipment HiNA functionality Limit: $\leq 8.00W$		N
	Other networked equipment Limit: $\leq 3.00W$		N
	The limits of this clause shall not apply to: large format printing equipment, desktop thin clients, workstations, mobile workstations, small-scale servers, computer servers		N
6.3	From Stage 5 (1.1.2019) (cl.5)		N
6.3.1	Power consumption in network standby		N
	Other networked equipment Limit: $\leq 2.00W$		N
6.4	Product information for networked equipment (from Stage 3) (cl.7)		N
	On free access website: (a) for each standby and/or off mode and the condition providing networked standby into which the equipment is switched by the power management function or similar function: - the power consumption data in Watt rounded to the first decimal place, - the period of time after which the power management function, or a similar function, switches the equipment auto-matically into standby and/or off mode and/or the condition providing networked standby;		N
	On free access website and user manual: (b) the power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated; (c) guidance on how to activate and deactivate wireless network ports.		N

TABLE 1		Power measurement				P
Voltage (230V ±1%) (V):	230	Frequency(Hz):		50.0		
T ambient (°C):	26.5	THD (%):		0.9		
Air speed (m/s):	0.1	Illuminance (lux):		--		
Operation condition	Current (mA)	Real power (W)	Apparent power (VA)	Power factor	Remark	
OFF mode	--	0	--	--	By pressing power switch on product.	
Auto- standby mode	--	0.41	--	--	Product is turned into standby mode automatically when it is not playing main function under Bluetooth and LINE IN mode	
supplementary information: - Setting: as shipped.						

TABLE 2		Energy measurement / Power calculation				N
Voltage (230V ±1%) (V):	--	Frequency(Hz):				
T ambient (°C):	--	THD (%):				
Air speed (m/s):	--	Illuminance (lux):				
Operation condition	Energy (Wh)	Measurement time (min)	Calculated Power (W)	Remark		
OFF mode	--	--	--	--		
Standby	--	--	--	--		
Networked standby	--	--	--	--		
supplementary information:						

TABLE 3: Equipment Used during Test				
Equipment	Model/Type	Cal. Date	Valid Date	
Digital Power Meter	WT210	2019/3/21	2020/3/20	
Digital Oscilloscope	TDS220	2019/3/21	2020/3/20	
Temperature & Humidity Meter	HTC-1	2018/7/25	2019/7/24	
Stop Watch	PC396	2019/3/21	2020/3/20	
Digital Anemometer	P6-8901	2018/7/25	2019/7/24	
Digital Power Meter	PF9811	2019/3/21	2020/3/20	

Photo documentation

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

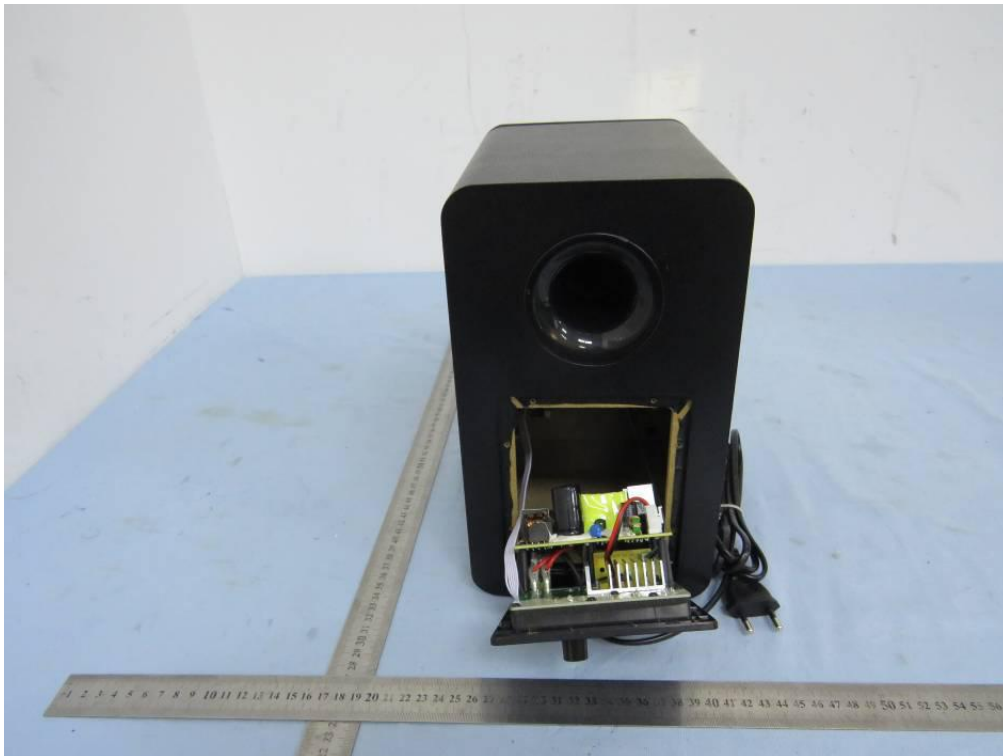


Photo 9

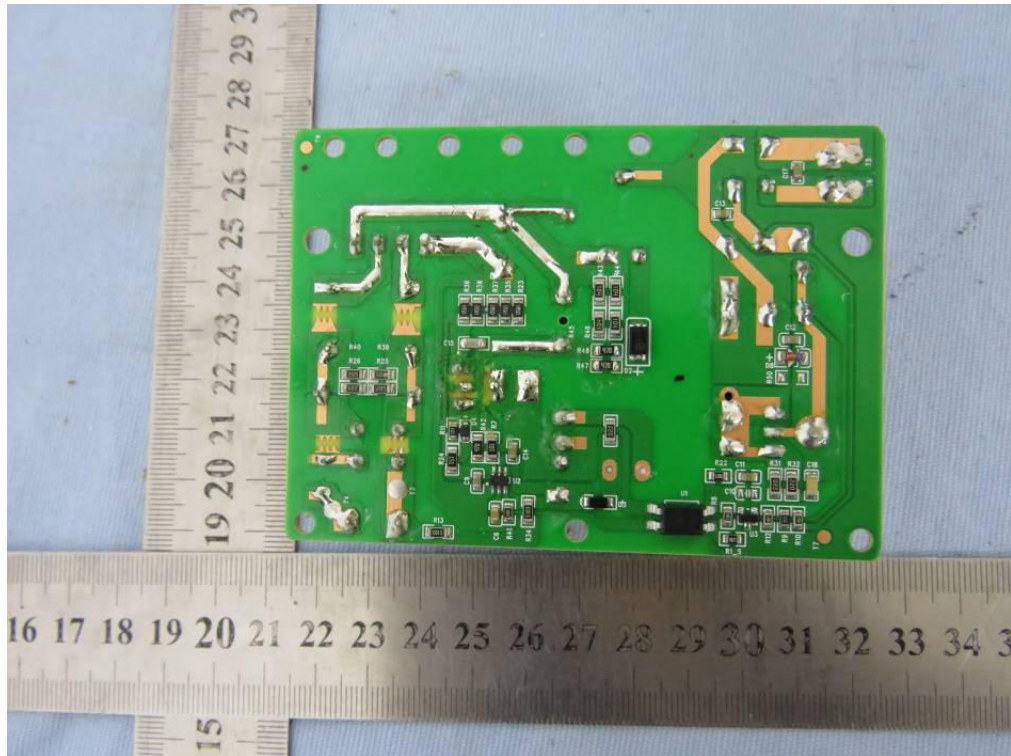


Photo 10

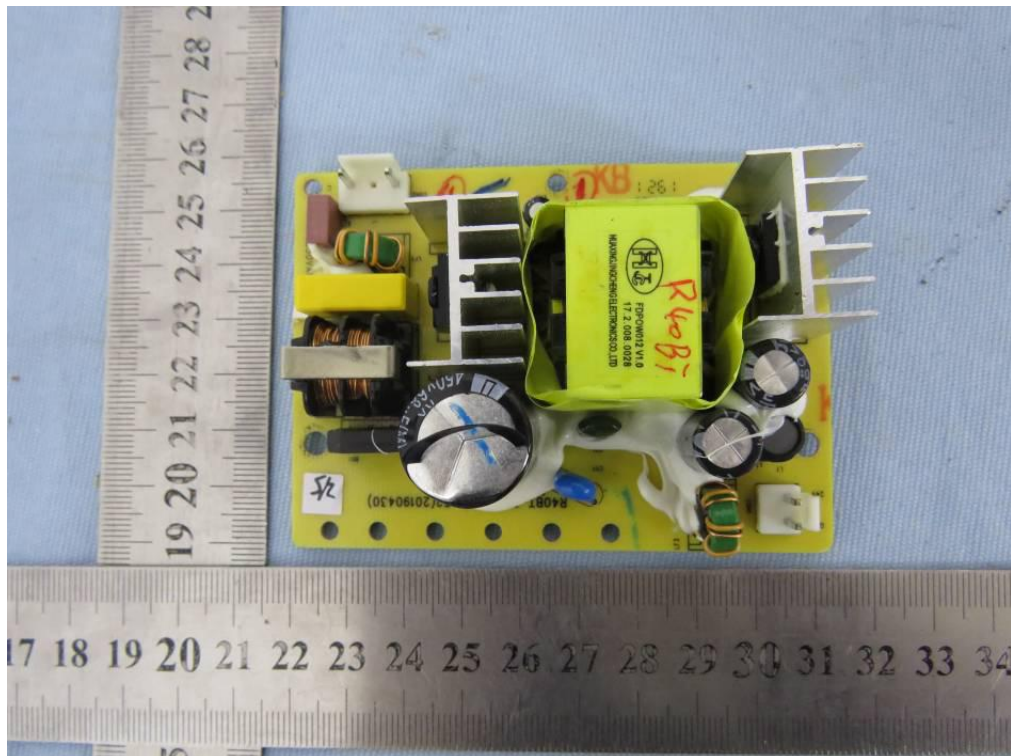


Photo 11

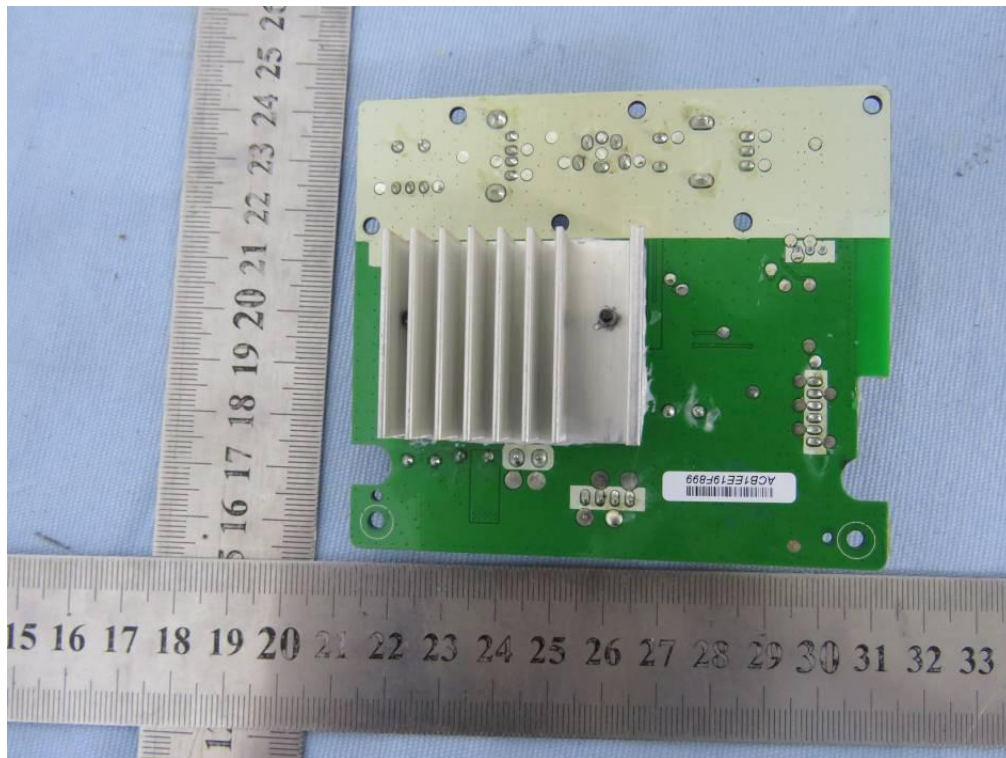
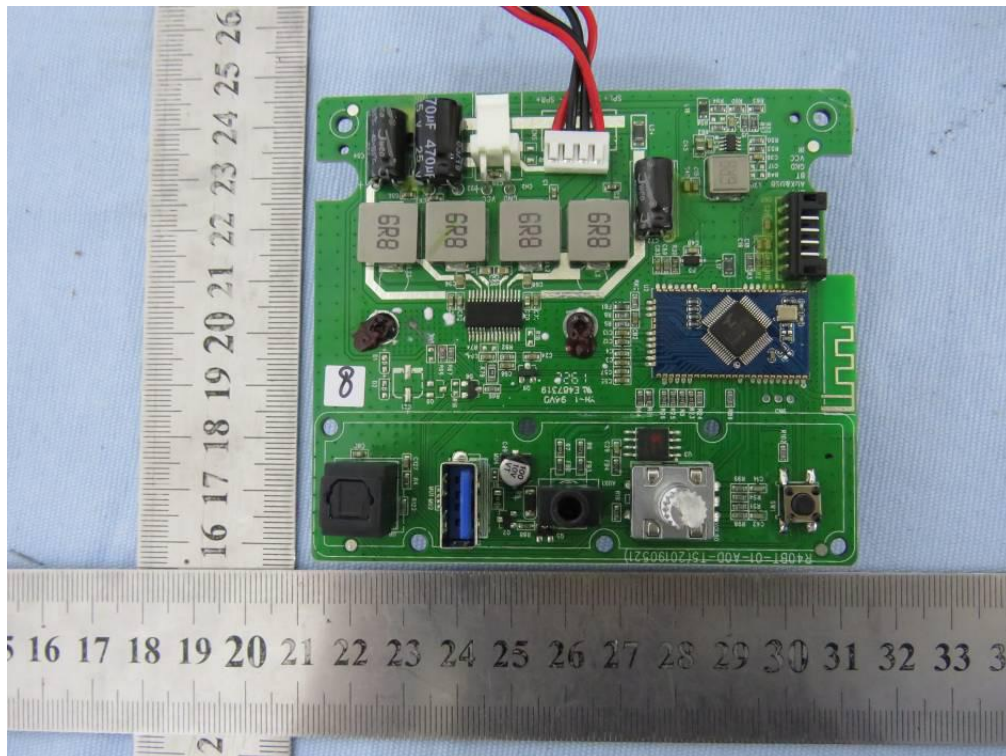


Photo 12



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