



FCC TEST REPORT

FCC ID: 2ACNS-GT-BU-G150M

Product	:	LED lamp
Model Name	:	GT-BU-G150M
Brand	:	3531348
Report No.	:	PTC25061909001E-FC02
Prepared for		
Ningbo Jinghui Opto-Electronic Co., Ltd. No. 616 Qingqing Road, The District B, Zhenhai Economic Development Zone, Ningbo, Zhejiang		
Prepared by		
Precise Testing & Certification Co., Ltd. Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



TEST RESULT CERTIFICATION

Applicant's name : Ningbo Jinghui Opto-Electronic Co., Ltd.
Address : No. 616 Qingqing Road, The District B, Zhenhai Economic Development Zone, Ningbo, Zhejiang
Manufacturer's name : Ningbo Jinghui Opto-Electronic Co., Ltd.2. JINGHUI OPTO ELECTRONIC (THAILAND) CO., LTD.
Address : 1. No. 616 Qingqing Road, The District B, Zhenhai Economic Development Zone, Ningbo, Zhejiang2. 61/6.Moo15, Tambon Narerk, Amphur Phanat Nikhom, Chon Buri, Thailand 20240
Product name : LED lamp
Model name : GT-BU-G150M,3531348
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Jun. 26, 2025 to Jul. 12, 2025
Date of Issue : Jul. 12, 2025
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read "Jack Zhou".

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read "Simon Pu".

Simon Pu / Manager



Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 MANUFACTURING TOLERANCE	7
4.5 TEST RESULT	8



Report No.: PTC25061909001E-FC02

2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC CFR47 Part 1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	LED lamp
Model Name	:	GT-BU-G150M
Additional model	:	3531348
Operation Frequency	:	5731-5872MHz
Type of Modulation	:	FMCW
Antenna installation	:	Integral antenna
Antenna Gain	:	4.4 dBi
Power supply	:	120V, 140W
Hardware Version	:	PCB RA5L10_V1
Software Version	:	5812



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \varphi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Manufacturing tolerance

Freq. (MHz)	Field strength(max)(dB μ V/m)	EIRP (max) (dBm)
5731.00	86.34	-8.86

Note: EIRP=E-104.8+20logD,
Where
E is the electric field strength in dB μ V/m
EIRP is the equivalent isotropically radiated power in dBm
d is the specified measurement distance in m
where D=3, EIRP=E-95.2.



4.5 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
5731.00MHz	2.75	-8.86	-8.86±1	0.163682	0.000090	1	Pass

*****THE END REPORT*****