

Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR210900006202 Page: 1 of 7

TEST REPORT

Application No.:	KSCR2109000062CR		
FCC ID:	OJFPS-MP-07		
Applicant:	Corning Optical Communications LLC		
Address of Applicant:	6 Concord Road, Shrewsbury, MA 01545 United States		
Manufacturer:	Corning Optical Communications LLC		
Address of Manufacturer:	6 Concord Road, Shrewsbury, MA 01545 United States		
Factory:	Sunwave Communications Co., Ltd		
Address of Factory:	581 Huoju Avenue, Binjiang District, Hangzhou, China		
Equipment Under Test (EU	Т):		
EUT Name:	Remote Unit		
Model No.:	PS-MP		
Trade mark:	CORNING		
Standard(s) :	FCC Rules 47 CFR §2.1091		
	KDB447498 D01 General RF Exposure Guidance v06		
Date of Receipt:	2021-10-08		
Date of Test:	2021-10-18 to 2021-11-26		
Date of Issue:	2021-11-29		
Test Result:	Pass*		

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

Fora fri

Eric Lin Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record							
Version Description Date Remark							
00	Original	2021-11-29	/				

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	Eni fri	
	Eric Lin / Reviewer	



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3 General Information

3.1 Details of E.U.T.

Product Name:	Remote Unit
Model No.:	PS-MP
Trade Mark:	CORNING
Power Supply:	AC 100~240V 50/60Hz or DC 48V
Test Voltage	AC 120V/60Hz
Rated power:	150W
Type of Modulation	LTE
Frequency Band:	CQPSK/12.5kHz FM/TETRA in 758MHz to 775MHz
Normal Output Power:	37dBm (downlink)
System Gain:	47 ± 2dB
Power Control Method:	ALC
Antenna Type:	External Antenna
Antenna Gain:	Max Antenna Gain 0.0 dBi(Provided by manufacturer)

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.2 Test Location

All tests were performed at: Compliance Certification Services (Kunshan) Inc. No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818 No tests were sub-contracted.

3.3 Test Facility

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

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB Identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development (ISED) Canada as an accredited testing laboratory.

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, C-11707, T-11499, G-10216 respectively.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(i) Limits for C	ccupational/Controlle	d Exposure		
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for 0	General Population/Un	controlled Exposure		
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

Table 1 - Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz. * = Plane-wave equivalent power density.

Friis Formula

Friis transmission formula: $Pd = (Pout^{G})/(4^{*} Pi * R^{2})$ Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR210900006201.

Band	Antenna Gain	Max Output Power	Max Output Power
Information	(dBi)	(dBm)	(mW)
758MHz to 775MHz	0.0	37.45	5559.0426

5.2 MPE Calculation

Frequency Band (MHz)	(dBi)	Max Output Power (dBm)	Max Tune-up tolerance power (dBm)	tolerance	Power Density at R = 36 cm (mW/cm ²)	Power Density Limit S(mW/cm ²)
758 - 775	0.0	37.45	39.0	7943.28	0.4877	0.5053

Note: Refer to Tune Up Procedure document for EUT Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 36 cm separation requirement.

So the limit of Band 758 - 775MHz= 758/1500 = 0.5053mW/cm²;

To satisfy RF exposure requirements, a separation distance of 36 cm or more should be maintained between this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

--End of the Report--



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