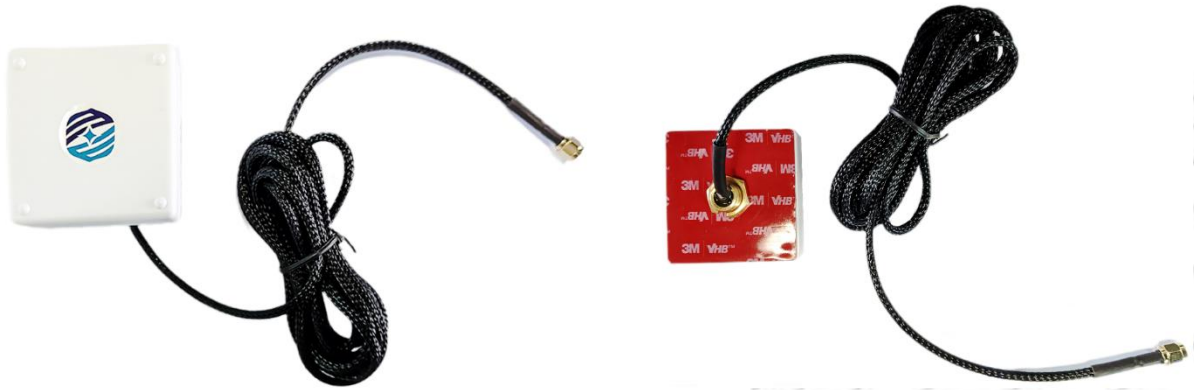
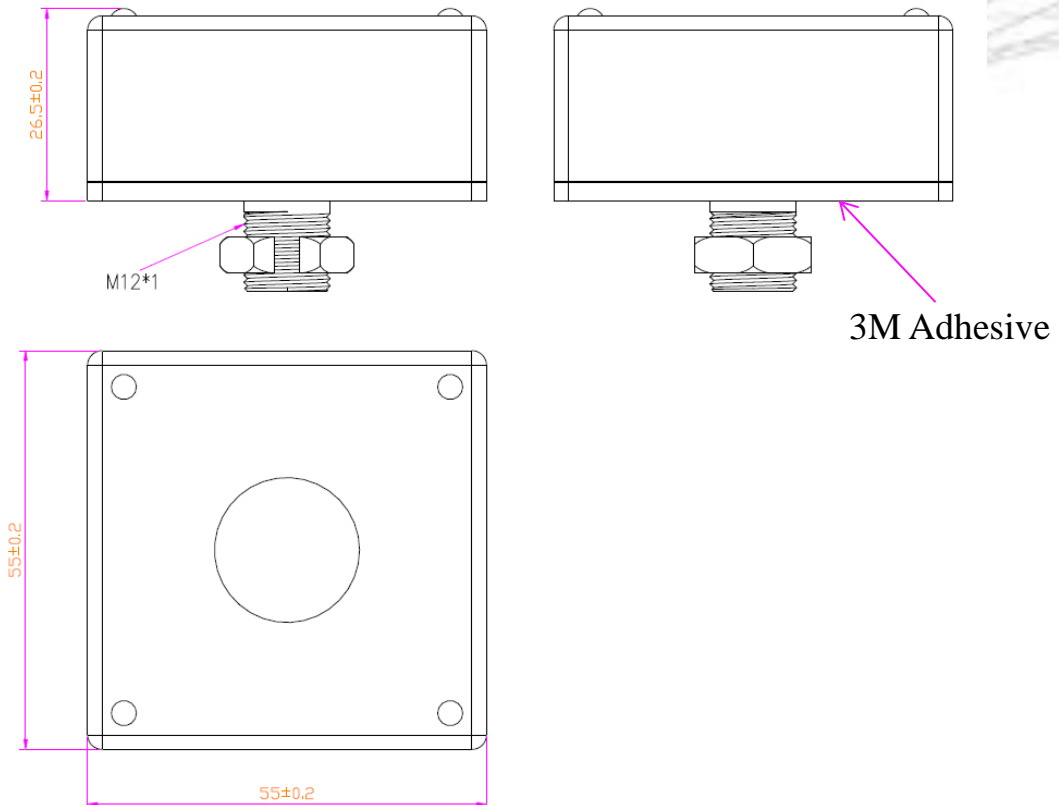


GNSS IP67 Waterproof GNSS High Gain Positioning Antenna

AN_GNSS_401



Mechanical Dimension



GNSS IP67 Waterproof GNSS High Gain Positioning Antenna Specifications

Item	Specifications	
Antenna	Frequency Range	1561.098~1602MHz GPS L1 GLONASS G1 GAILEO E1 BEIDOU B1
	Polarization	RHCP
	Gain	5dBic@PCB (Zenith)
	V.S.W.R	< 1.5
	Impedance	50Ω
	Axial Ratio	3dB (max)
	Dimension	55 *55 *26.5mm
LNA	Gain	28±2dB
	Noise Figure	≤1.5dB
	Filter Insertion Loss	<3dB
	Supply Voltage	3~5V DC
	Current Consumption	< 20mA
	V.S.W.R	<2.0
Mechanical	Cable	LMR195 (3 meters) Nylon Overbraids
	Connector	SMA Male (Customizable)
	Radome Material	ASA (UL Yellow Card Grade)
	UV Exposure & Water Immersion	F1 (UL746C)
	Mounting Method	Screw+3M Adhesive
Environmental	Operating Temperature	-40℃~+85℃
	Relative Humidity	Up to 95%
	Waterproof	IP67 (EURO: EN 60529:1991+A1:2000+A2:2013+AC:2019 CHINA: GB/T4208-2017)
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Environmentally Friendly	ROHS Compliant
	UV Stabilized	YES

TEST REPORT

EN 60529

Degrees of protection provided by enclosures(IP code)

Report reference No..... : CTB221226028Q

Date of issue..... : 2022-12-30

Testing laboratory

Name : Shenzhen CTB Testing Technology Co., Ltd.

Address..... : 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

Testing location..... : Same as above

Client

Applicant..... : Suzhou Maswell Communication Technology Co.Ltd

Address..... : Floor 3,Building 6,No.88 Zhenbei Road,High-tech District,Suzhou 215153,Jiangsu,China

Test specification

Standard..... : EN 60529:1991+A1:2000+A2:2013+AC:2019

Procedure deviation..... : N/A

Non-standard test method.... : N/A

Object under test..... : 401 Antenna Series : AN_GNSS_401, AN_W_401 and AN_GSM_401

Model/Type reference..... : 401 Antenna Series : AN_GNSS_401, AN_W_401 and AN_GSM_401

Others Model..... : /

Trade mark..... : Maswell

Manufacturer..... : Suzhou Maswell Communication Technology Co.Ltd

Address..... : Floor 3,Building 6,No.88 Zhenbei Road,High-tech District,Suzhou 215153,Jiangsu,China

IP degrees..... : IP67

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)

Date of receipt of test item..... : 2022-12-23

Date(s) of performance of tests..... : 2022-12-26 to 2022-12-27

Laboratory sample number..... : 221223006-2,3



Model PW-957(+)(f1)

File Number: E56070



COMPANY

CHI MEI CORPORATION

No 398 Sec 1 Zhongzheng Rd
Rende District
Tainan City, 717010 Taiwan

MODEL INFO

PW-957(+)(f1)

Acrylonitrile Styrene Acrylate (ASA) "KIBILAC", furnished as pellets

(f1) – Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

(+) – Indicate 0~0.5% acid scavengers.

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.5 mm, Color: ALL	HB	
3.0 mm, Color: ALL	HB	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.5 mm, Color: ALL	HB75	
3.0 mm, Color: ALL	HB40	
ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746A
1.5 mm	PLC 0	

3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
High Voltage Arc Tracking Rate (HVTR)	PLC 3	
High Voltage, Low Current Arc Resistance	PLC 6	
THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
1.5 mm	90 °C	
3.0 mm	90 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
1.5 mm	90 °C	
3.0 mm	90 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
1.5 mm	95 °C	
3.0 mm	95 °C	
PHYSICAL PROPERTIES	VALUE	TEST METHOD
UV Exposure & Water Immersion	f1	UL 746C

Report Date: 2006-08-31

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