

SPEC NO.	SP-12G0228GT01-04	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G01 (Omni Fiberglass Antenna)	VERSION	V04	
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SPECIFICATION

SPEC NO. : SP-12G0228GT01-04

PART NO. : OMA-G01

PRODUCT NAME : Omni Fiberglass Antenna

DESCRIPTION : 902-928 MHz /8 dBi/ Fiberglass Omni
Antenna with N-style Jack Connector
(含 cable 213/U 3M N PLUG TO N
PLUG)

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	DESIGNED	APPROVED
V01	2015.12.22	All	新制訂	Mingru	TY	Frank
V02	2016.06.27	P6~P9	增加 cable spec	Mingru	TY	Frank
V03	2016.07.13	P5/10	5. Dimension(Length 修訂)	Mingru	TY	Frank
V04	2017.03.06	P6/10	6.cable (Electrical)	Mingru	TY	Frank

Prepared By	Designed By	Approved By

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Product Description

The GSC-TECH 8 dBi Fiberglass omni directional antenna is specially designed for applications operating in 902-928 MHz frequency, including radio frequency identification (RFID), land mobile, location monitoring systems (LMS), and ISM applications.

It features high gain and is vertically polarized.

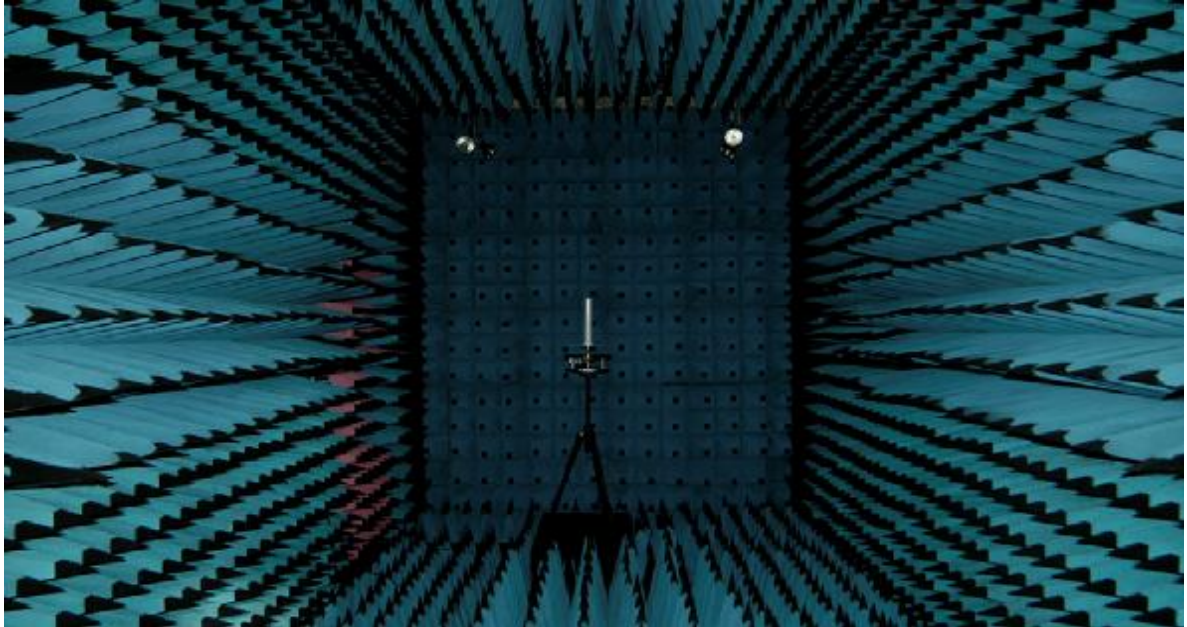
Includes a heavy duty mounting bracket and an N-style Jack connector.

1. Product Specifications

Model	
Frequency Range	902 ~ 928 MHz
Bandwidth	26 MHz
Gain	8 dBi
Horizontal Beamwidth	360°
Vertical Beamwidth	16°
VSWR	≤ 1.5
Nominal Impedance	50 Ohms
Maximum Power rating	100 Watts
Polarization	Vertical
Connector	N-Style Jack
Length	51.6" / 131cm
Wind Load	120 mph
Radome	White Fiberglass
Mast Mount Diameter	Ø1.5" ~ Ø2.0"
Operating Temperature Range	-22°F ~ 158°F

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2. Test Condition



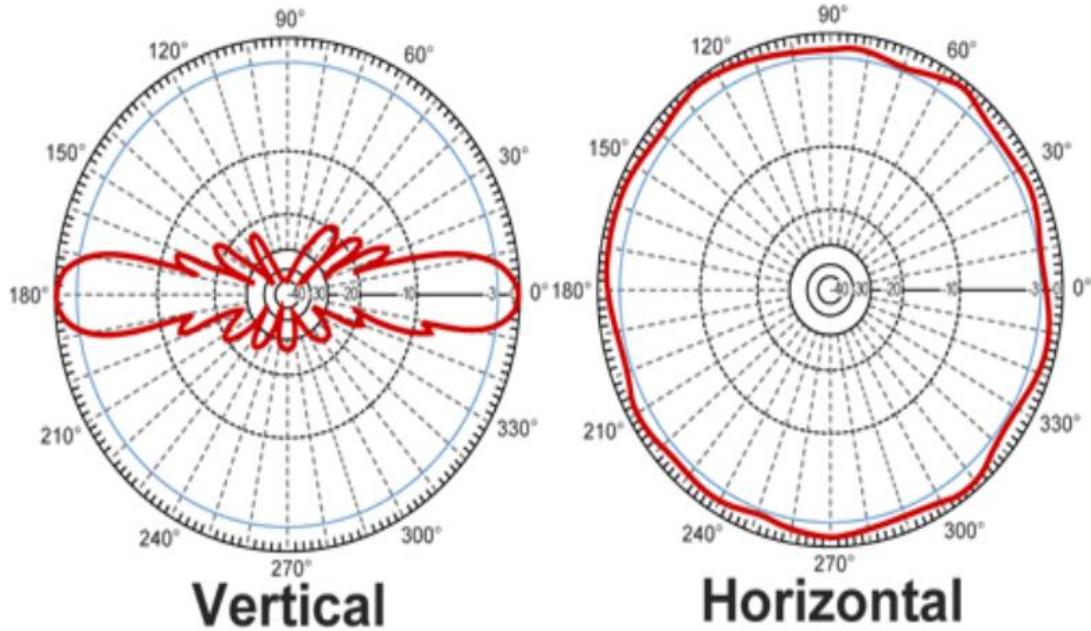
3. Return Loss



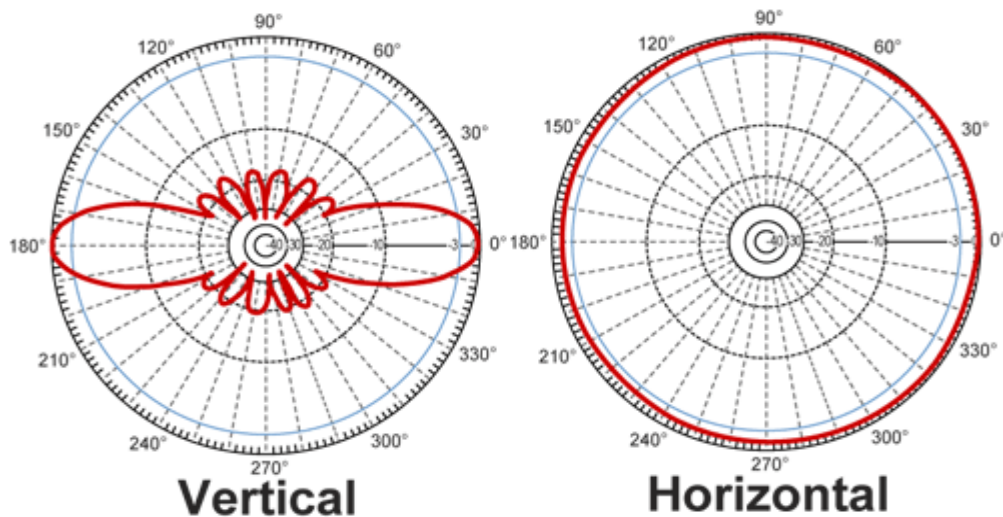
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4.Radiation Patern

4-1@902MHz



4-2 @928MHz



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6.cable

Electrical

Impedance	50 ohm
Frequency Range	0- 6 GHz
Working voltage	1000 vrms max. at sea level
RL	<-10dB@0~5GHz <-7dB @5G~6GHz
Contact Resistance	Center Contact: 3 Millohms Max. Outer Contact: 2 Millohms Max
Insulator Resistance	5000 megohms min

Material

Name	Material	Finish
Connector body	Brass per JIS-C3604BD	Nickel or gold plating
Center contact female	Beryllium copper per Male: Brass per QQ-B-750	Gold plating Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Nickle or Gold

Mechanical

Engage force	6 lbs. max.
Disengagement force	6 lbs. Max.
Contact retention	6 lbs. min
Durability	500 cycles min

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ESC-182 Test System V4.52K
www.e-channel.com.tw
Resolution setting 1.56x768

VNA Display

Model: RG-213-3M
CH No.: 05 (A3B3)
Calibration ON
Local

S12 0.00
Log Mag
1.00

10dB/Div
Ref. Value
0.0000
Ref. Pos.
9 Div

Point: 401
Power: 10.0000

400.000000 MHz

700.000000 MHz

1.000000 GHz

S11
Log Mag
50.00

10dB/Div
Ref. Value
0.0000
Ref. Pos.
5 Div

0.00

Notch OFF Value 0.000

Trace 2 (S11)(Log Mag)

Mark	Frequency(MHz)	Value	dB/Div	Reference Position	Reference Value
Mark 1	470.000000	-0.5593	10	5	0.0000
Mark 2	490.000000	-0.5391			
Mark 3	510.000000	-0.4804			
Mark 4	860.000000	-0.6998			
Mark 5	920.000000	-0.8488			
Mark 6	950.000000	-1.2891			
Mark 7					
Mark 8					
Mark 9					

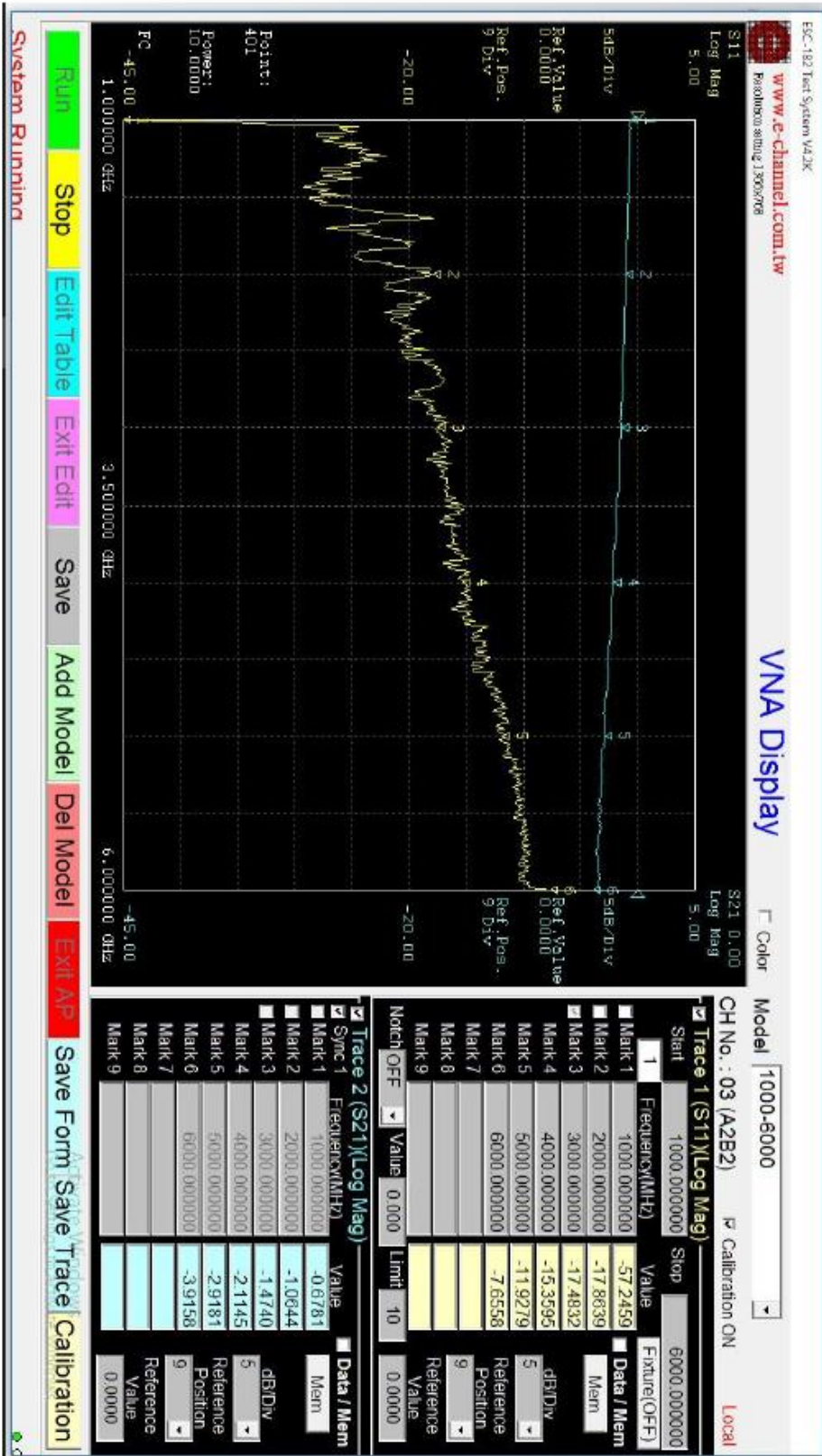
Data / Mem

Mark	Frequency(MHz)	Value	dB/Div	Reference Position	Reference Value
Mark 1	470.000000	-26.6028	10	5	0.0000
Mark 2	490.000000	-29.2509			
Mark 3	510.000000	-27.0832			
Mark 4	860.000000	-26.7040			
Mark 5	920.000000	-24.9536			
Mark 6	950.000000	-25.7999			
Mark 7					
Mark 8					
Mark 9					

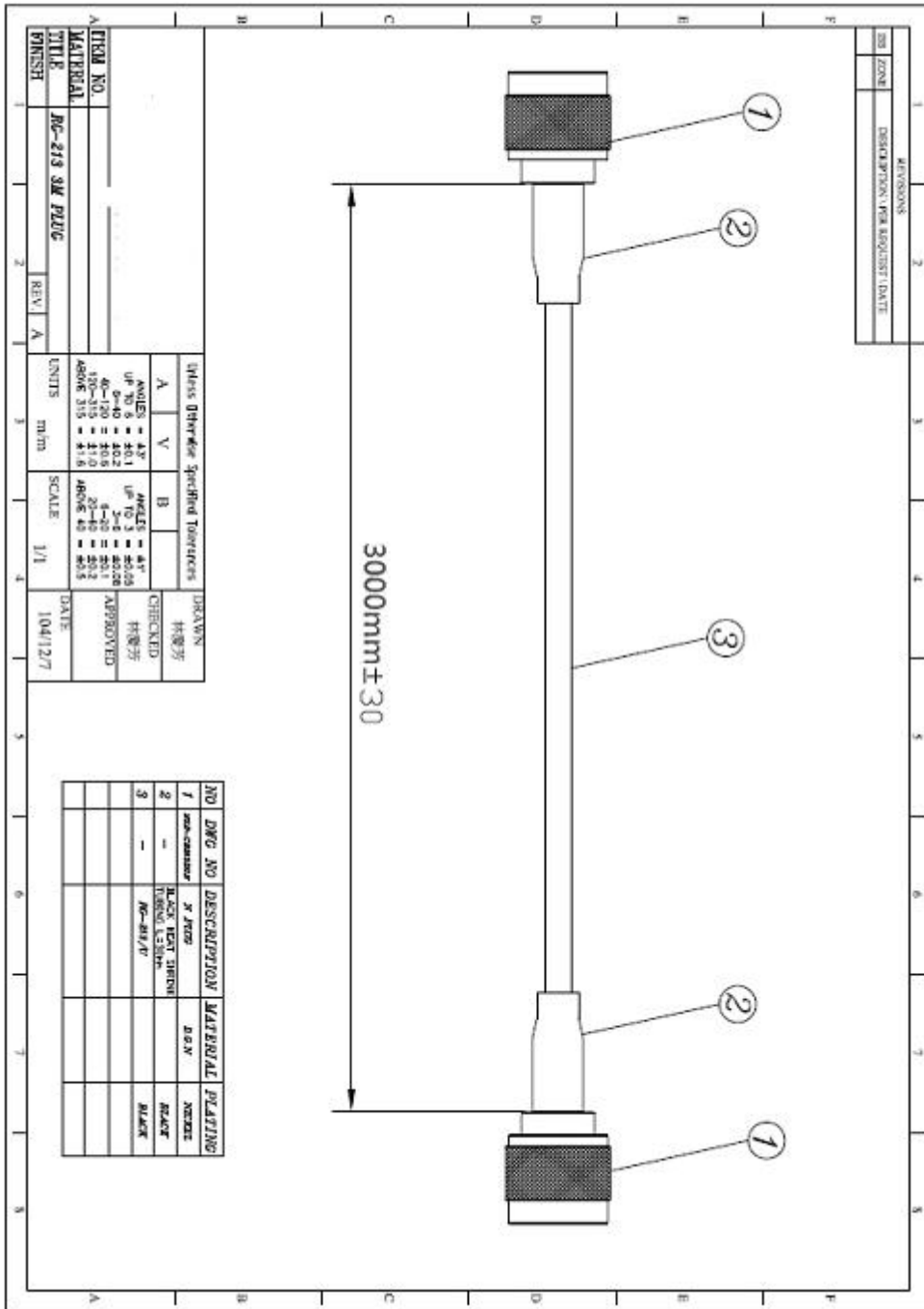
Run Stop Single Continue Edit Table Add Model Del Model Exit AP Save Form Save Trace Calibration

System Running...

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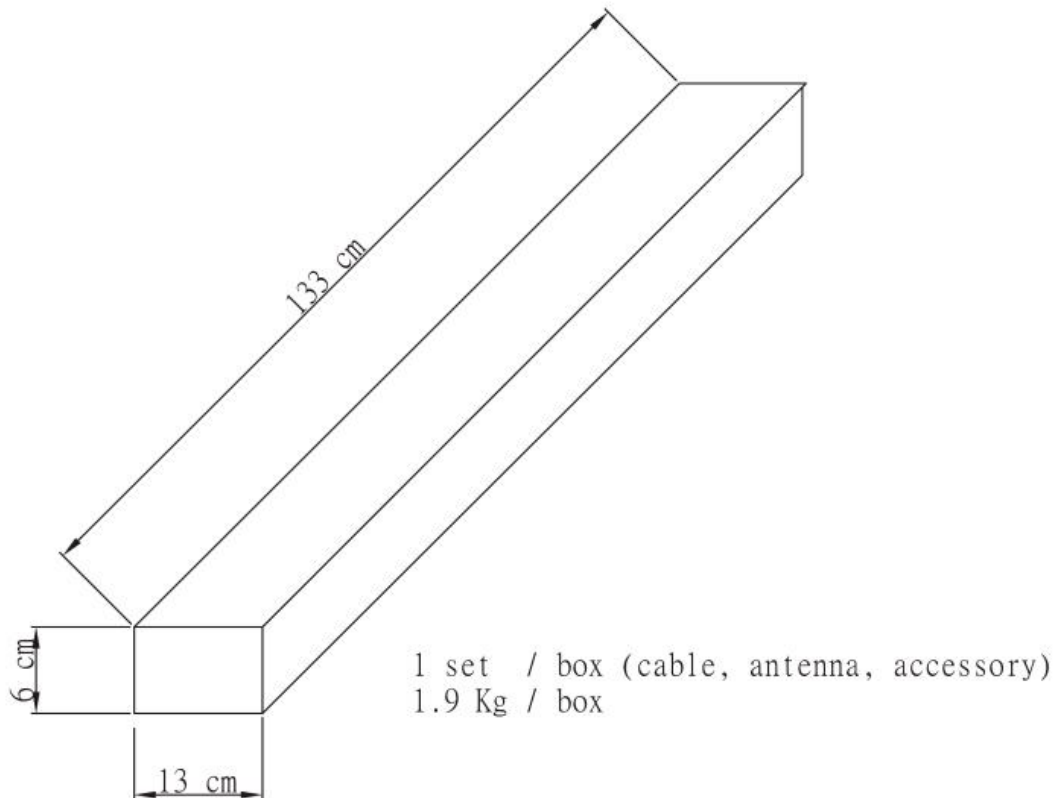


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7.Package



7.1 包裝箱摔落/落下執行標準：

§ 摔落測試共為六個面(faces)四個底角(corners)。

§ 摔落高度要求如下，以包裝的最低點量測。

Gross weight, m, 總重量 Kg	Drop height, 落下高度 cm
1.9	91

§ 摔落試驗後內裝產品不可以有功能及外觀不良，包括不可以有螺絲鬆動或結構破損的情形。

§ 紙箱經摔落後仍能有效的保持封口密合無破裂。落下後其稜邊(Edge)或角(Corner)的地方有凹陷，或落下角(Corner)的鄰近稜邊(Edge)有小範圍破損，或落下面衝擊處有小範圍的損傷都是可以接受的。