

SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	1/10	

SPECIFICATION

SPEC NO. : BW-866GT-02

PART NO. : OMA-G09

PRODUCT NAME : Omni Fiberglass Antenna

DESCRIPTION : RFID Omni FG Antenna 862-870
MHz/5dBi/白色 (含固定座 2 個) (含
RG213/U 1M cable assy)

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	DESIGNED	APPROVED
V01	2017.02.16	All	新制訂	Mingru	TY	Frank
V02	2017.03.06	All	修改頻段為 862~870MHz 6.cable (Electrical)	Mingru	TY	Frank

Prepared By	Designed By	Approved By



SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	2/10	

Product Description

The BW-TECH 5 dBi Fiberglass omni directional antenna is specially designed for applications operating in 862-870 MHz frequency, including radio frequency identification (RFID), land mobile, location monitoring systems (LMS), and ISM applications.

It features high gain and is vertically polarized.

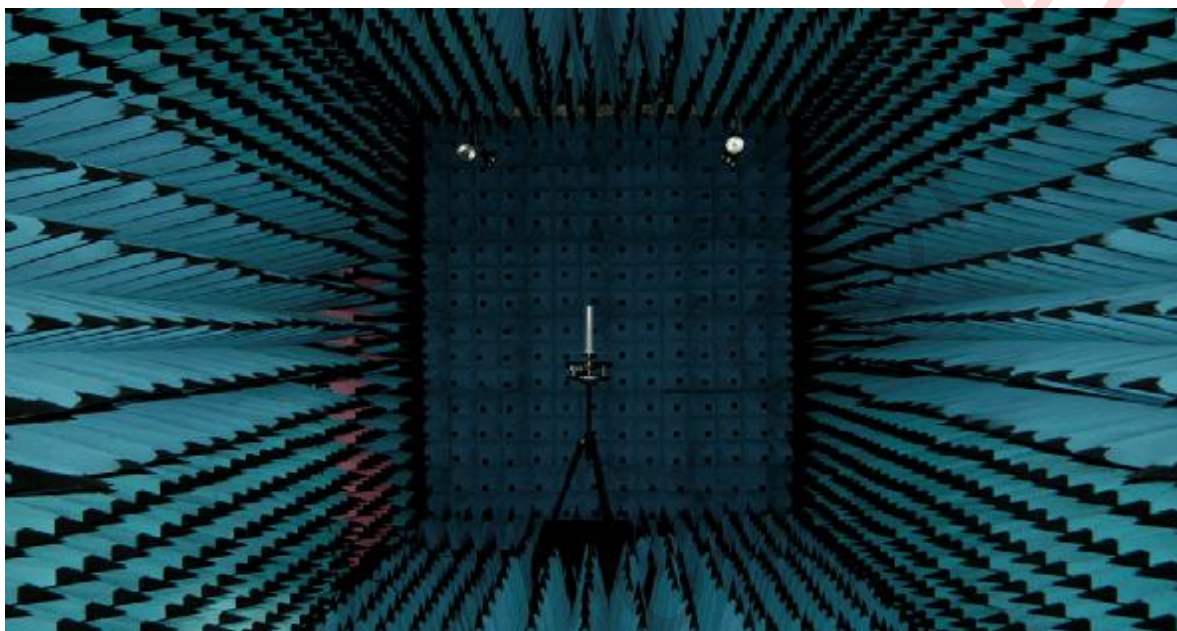
Includes a heavy duty mounting bracket and an N-style Jack connector.

1. Product Specifications

Model	
Frequency Range	862 ~ 870 MHz
Bandwidth	16 MHz
Gain	5 dBi
Horizontal Beamwidth	360°
Vertical Beamwidth	40°
VSWR	< 1.5
Nominal Impedance	50 Ohms
Maximum Power rating	100 Watts
Polarization	Vertical
Connector	N-Style Jack
Length	24" / 61cm
Wind Load	120 mph
Radome	White Fiberglass
Mast Mount Diameter	Ø1.5" ~ Ø2.0"
Operating Temperature Range	-22°F ~ 158°F

SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	3/10	

2. Test Conduction



3. Return Loss

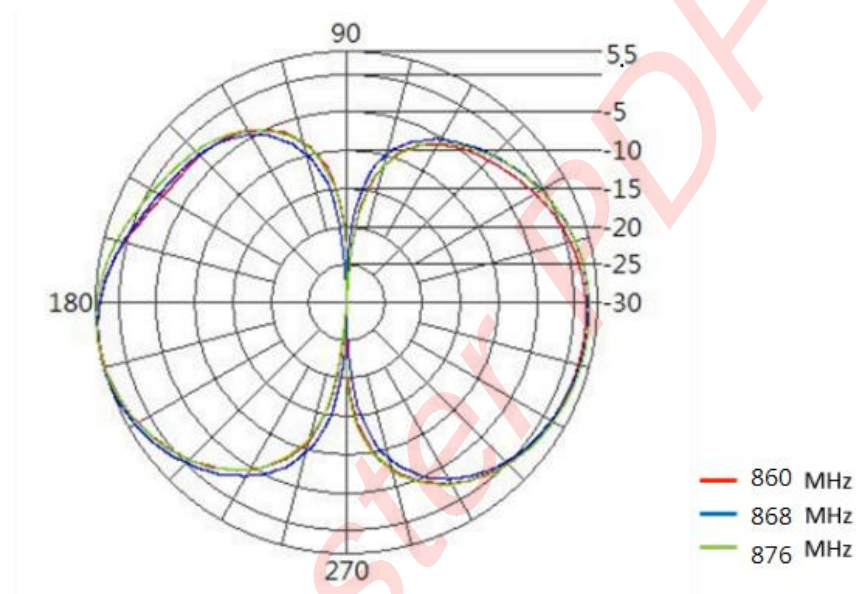


SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	4/10	

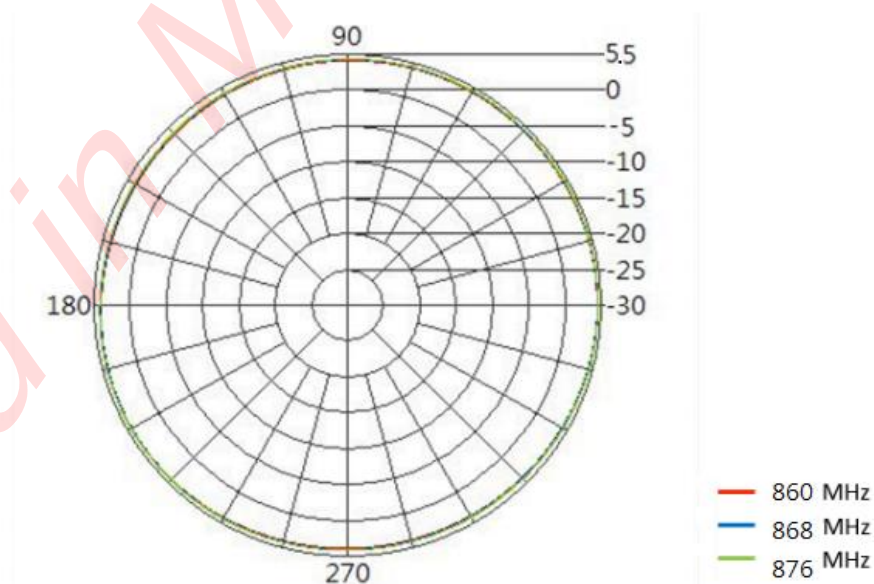
4. Radiation Pattern

@ 860MHz, 868MHz, 876MHz

Vertical Pattern – E plane



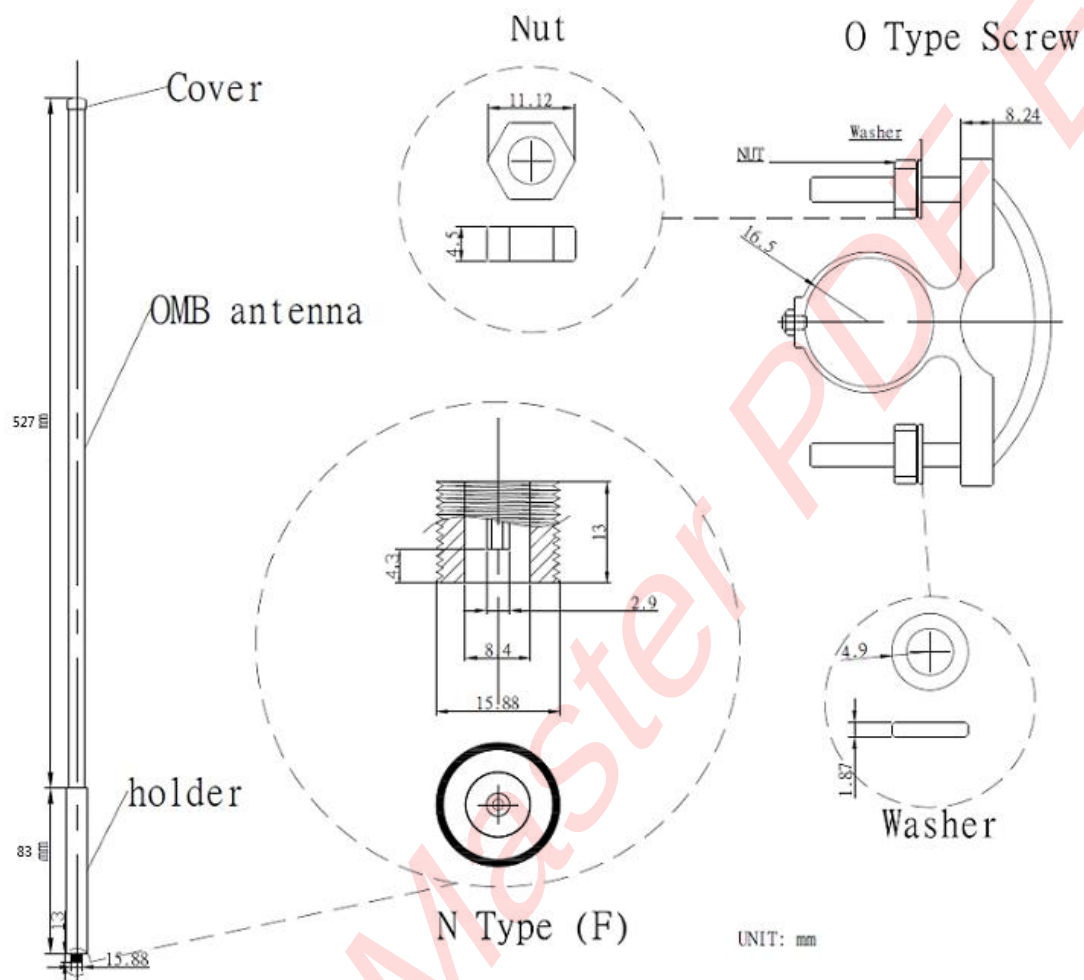
Horizontal Pattern – H plane



BROWAN

SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	5/10	

5. Dimension



Omni Antenna 862 ~ 870 MHz Base Station					
1	name	P/N	material	finish	qty
2	OMB Antenna		glass fiber	white	1
3	Cover		Aluminum	silver	1
4	Holder		Aluminum	silver	1
5	N Type (F)		Bress	Ni Plated	1
6	o type Screw		Stainless stell	silver	1
7	M6 washer		Stainless steel	silver	2
8	M6 nut		Stainless steel	silver	2

SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	6/10	

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
Contace 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	Beryllinn copper per Male: Brass per QQ-B-750	Gold plating Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Nickle or Gold

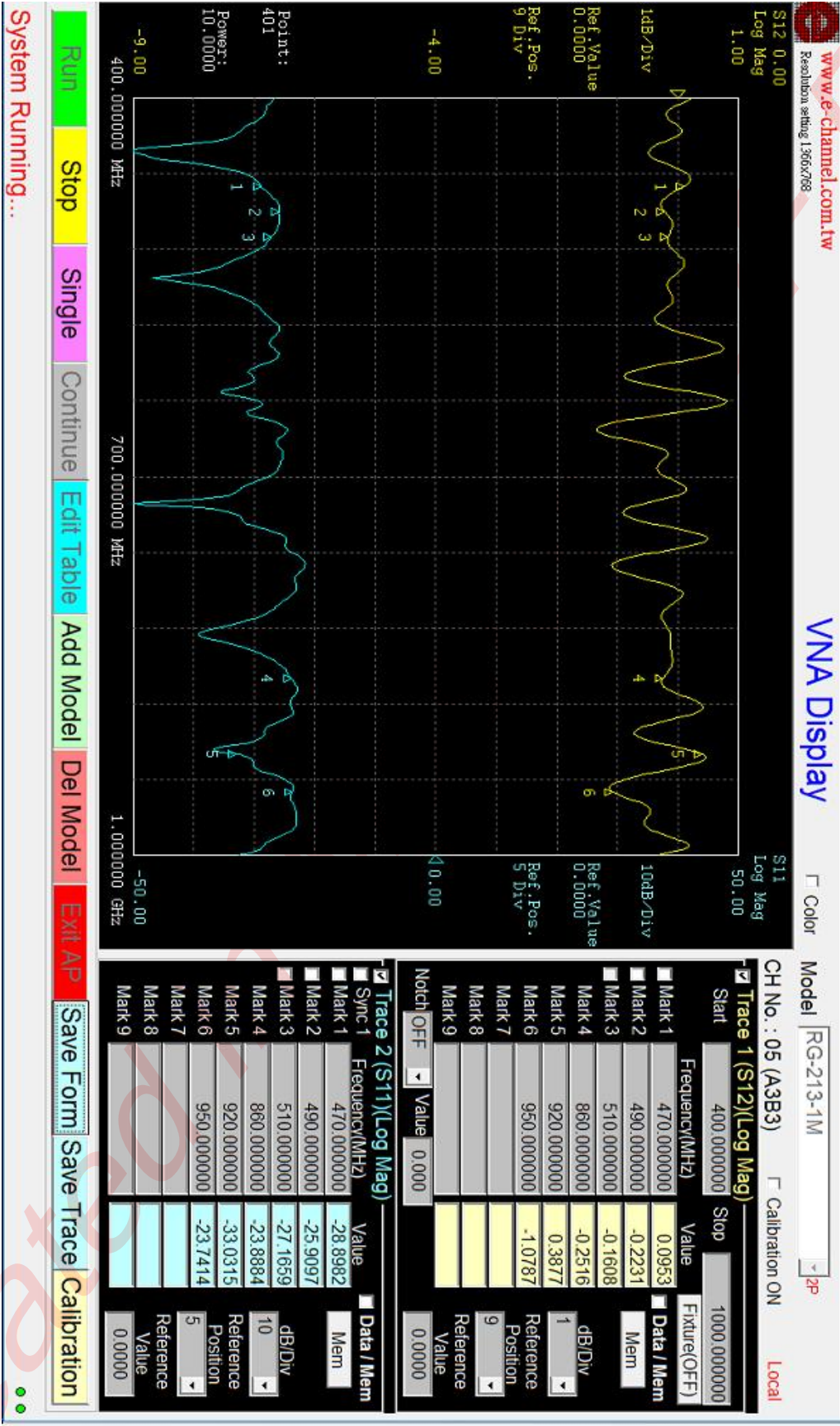
Mechanical

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



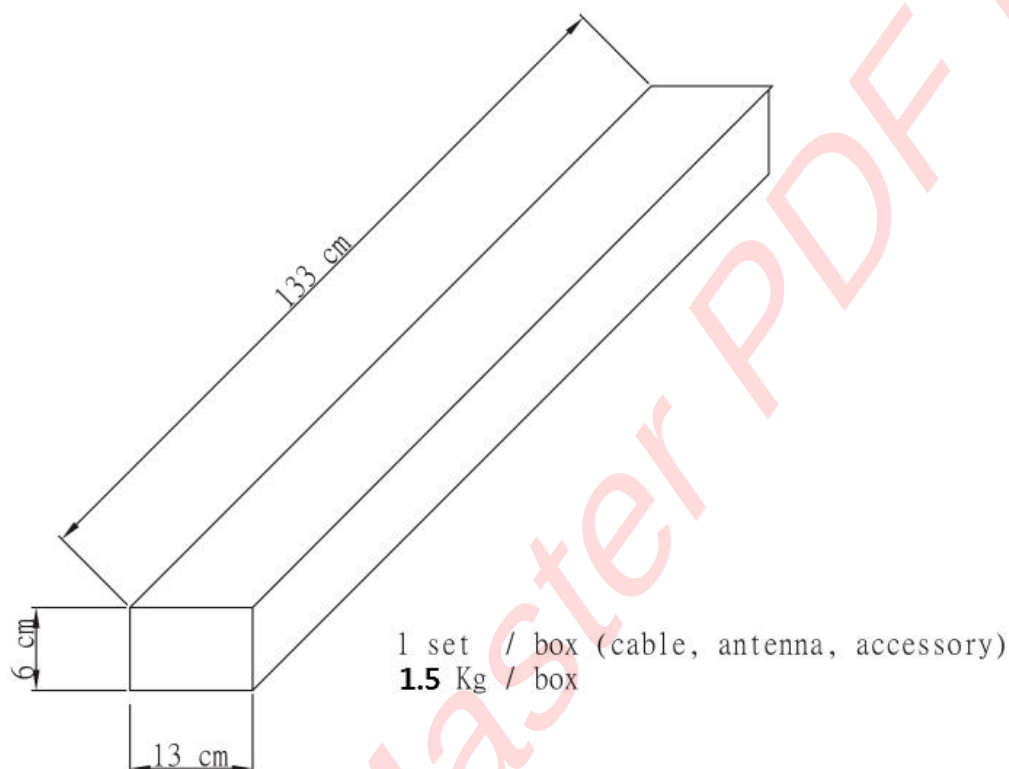
BROWAN

SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	7/10	



SPEC NO.	BW-866GT-02	ISSUED DATE	2017.03.06	PUBLISHED BY
PRODUCT NAME	OMA-G09 (Omni Fiberglass Antenna)	VERSION	V02	
		PAGE	10/10	

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
1.5	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。落下後其棱邊(Edge)或角(Corner)的地方有凹陷，或落下角(Corner)的鄰近棱邊(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。