

Customer	
Date	2015 / 02 / 10
Product	OA-868M09-NF 860MHz - 870MHz 9dBi Omni-Directional Outdoor Antenna
REV	1

APPROVAL SHEET

Customer Approved By	Approve	Chief	Responsible

Model: OA-868M09-NF

860MHz - 870MHz 9dBi Omni-Directional Outdoor Antenna



Applications:

- 860MHz - 870MHz Frequency Band
- IEEE 802.22 WRAN
- Point to Point Bridge
- Multipoint Application
- Bluetooth
- Public Wireless Hotspot
- Wireless Video Systems

Features :

- Superior performance
- The weight is light
- Good appearance designs
- DC Short lightning protection
- Support is up and down or so to adjust
- Behind and support is an aluminum
- Outdoor antenna for public Hotspots
- Includes tilt and swivel mast mount brackets
- RoHS Compliant

Accessories



Stainless steel "U type" screw X2
M6 Stainless steel screw mat slice X 4
M6 Stainless steel screw X 4
Water proof tape X 1

Electrical Specifications

Frequency Range	860MHz - 870MHz
V.S.W.R (MAX)	868MHz: <1.5 :1 860 and 870MHz: <2.0:1
Antenna Type	Omni
Radiation	Directional
Gain	9 dBi
Polarization	Vertical
Maximum Power	100 Watts
Vertical Beam-width	17 Deg
Horizontal Beam-width	360 Deg
Impedance	50 Ohm
Antenna Design	Dipole Array
Internal Material	Copper
Connector	N-Female

Mechanical Specifications

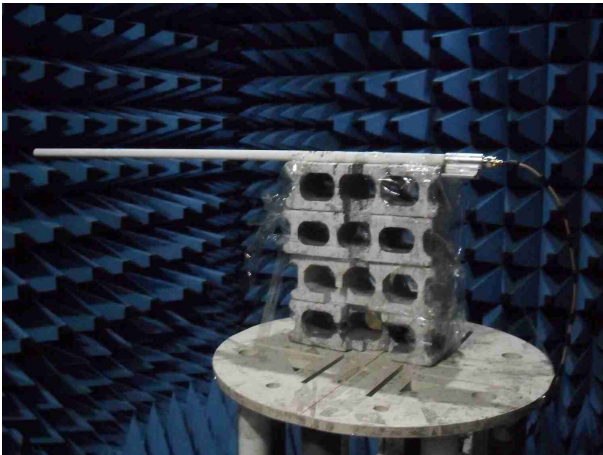
Length x Width (MAX)	1475mm+/-5mm
Diameter (MAX)	70 mm
Antenna Weight (G.W)	1000g
Accessories (G.W)	70 g
Application	Indoor / Outdoor
Radome Material	White Fiberglass
Paets Material	Aluminum
Mount Style	Pole Mount / Wall Mount
Mounting	Stainless Steel and Aluminum
Wind Survival	Greater then 150MPH
Storage Temperature	-40 to +80
Operating Temperature	-40 to +60
Operating Humidity	10%~80% non-condensing
Storage Humidity	5%~80% non-condensing
Safety,Emission and other	RoHS

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RF Chamber Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Chamber	14M(L) X 7M(D) X 7M(H)
Test Frequency	860MHz - 870MHz
Test Antenna	FT-RF HA-07M18G-NF

Vertical Pattern Photos

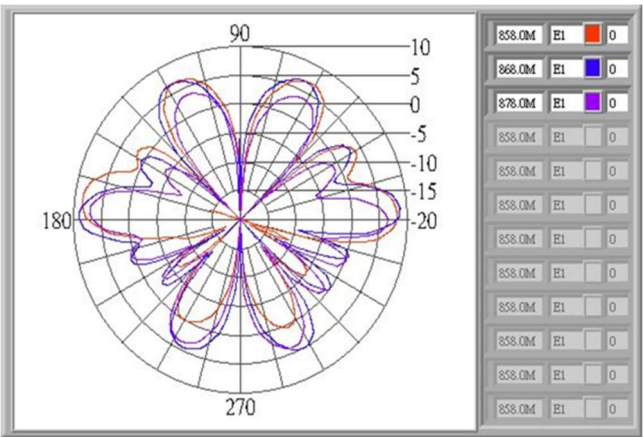


Horizontal Pattern Photos



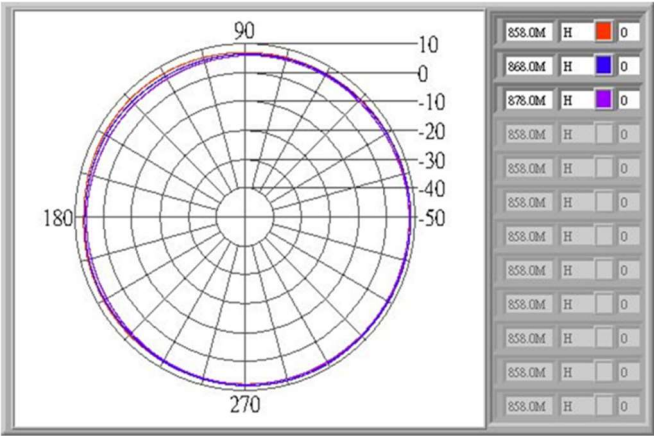
Vertical Pattern

E-plane co-pol ----- -3dB beam-width= 17 Deg



Horizontal Pattern

H-plane co-pol ----- -3dB beam-width= 360 Deg



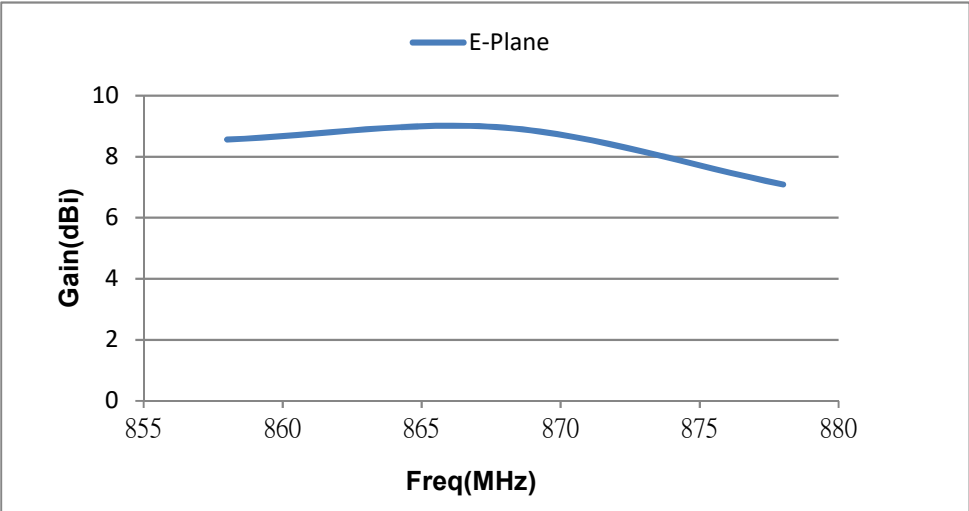
Model: OA-868M09-NF

Antenna Gain Curve

E-Plane

MHz	dBi
858	8.56
868	9.02
878	8.59

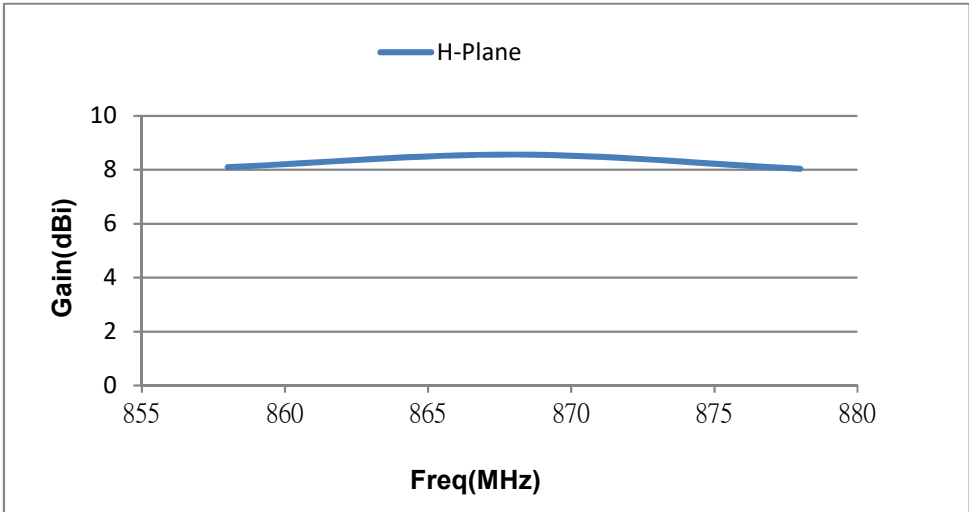
Average 8.72



H-Plane

MHz	dBi
858	8.3
868	8.85
878	8.56

Average 8.57

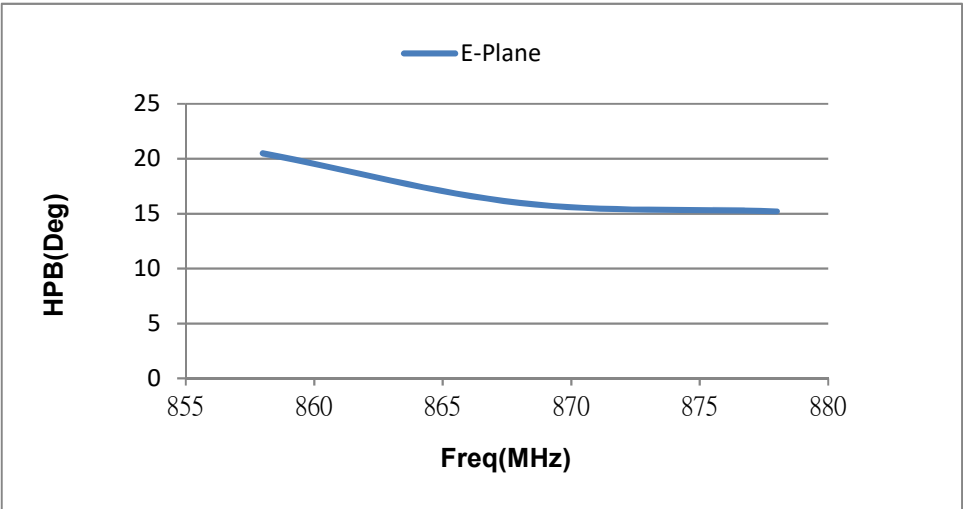


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Antenna -3dB Beam-width Curve

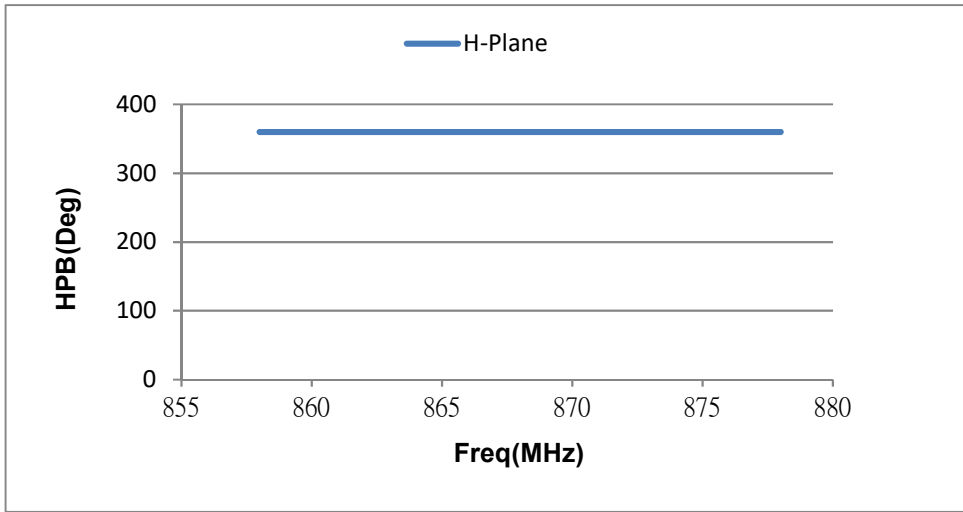
E-Plane

MHz	Deg
858	19.58
868	14.54
878	14.13
Average	16.08



H-Plane

MHz	Deg
858	360
868	360
878	360
Average	360



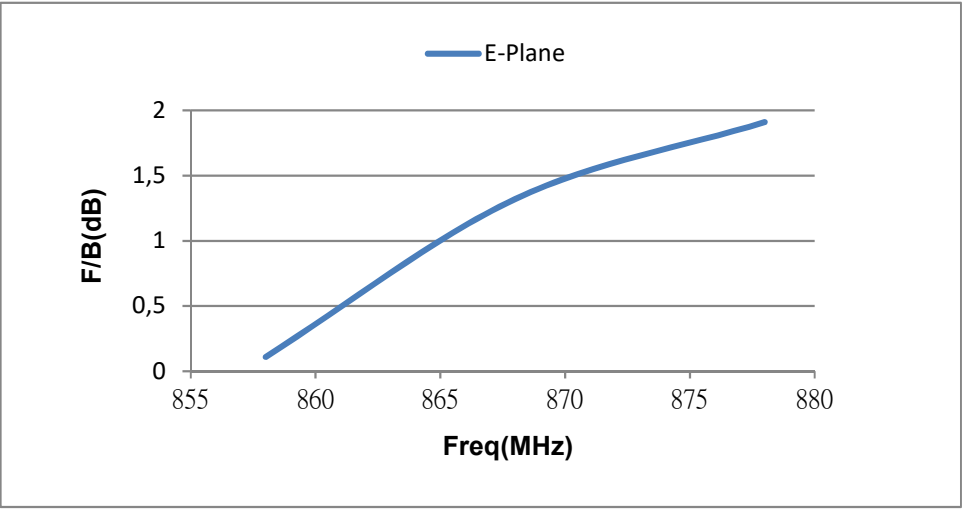
Model: OA-868M09-NF

Antenna FBR Curve

E-Plane

MHz	dB
858	0.11
868	1.25
878	1.51

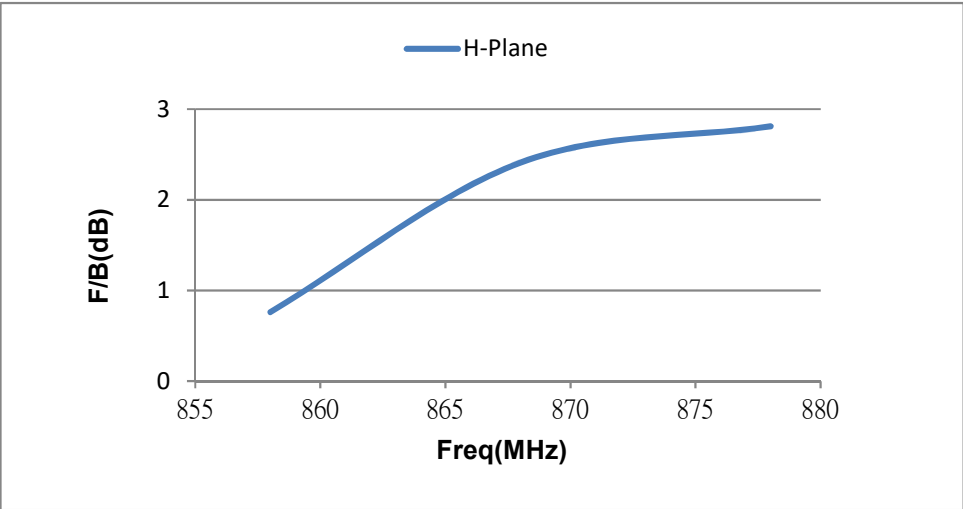
Average 0.95



H-Plane

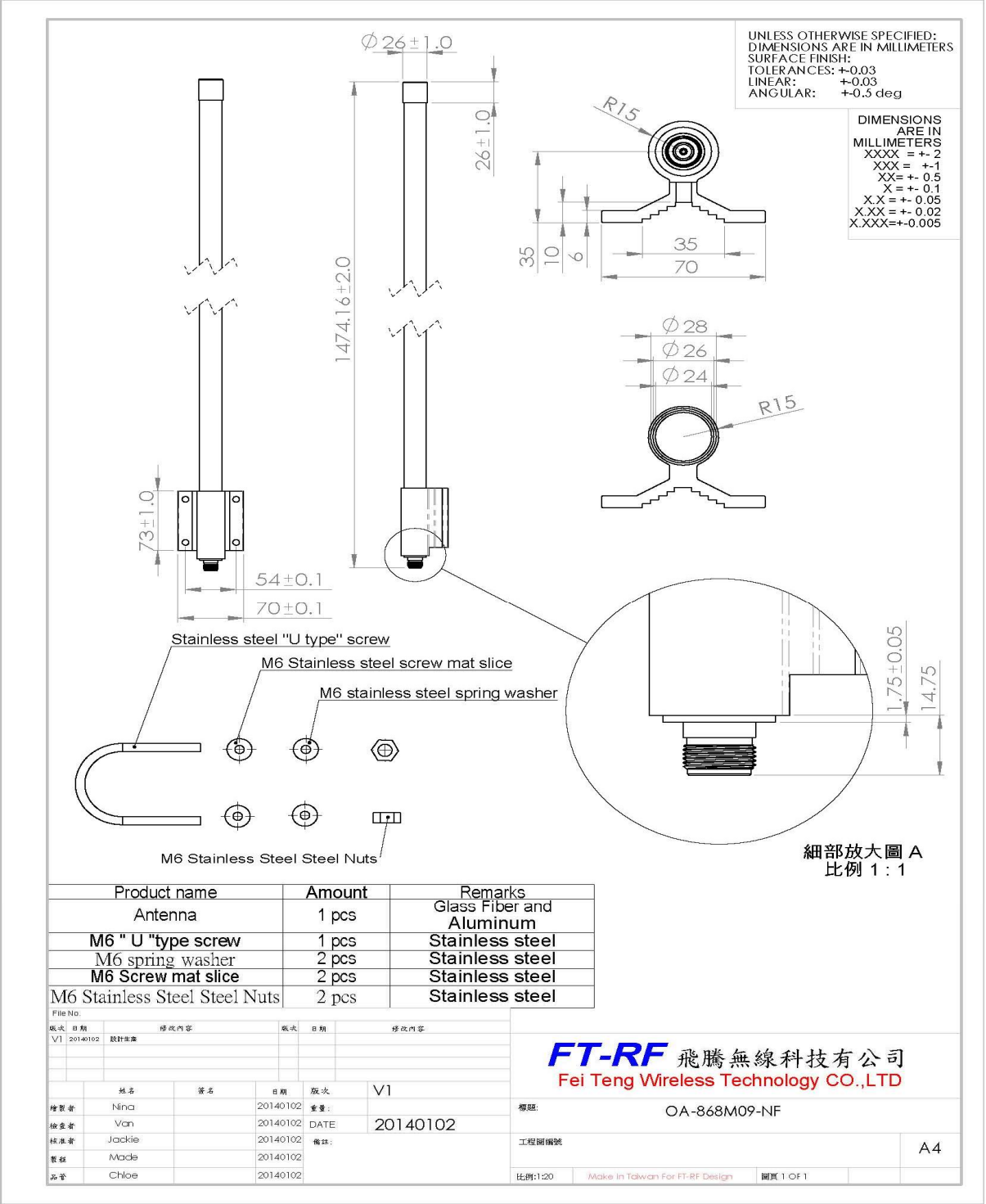
MHz	dB
858	0.60
868	2.15
878	2.34

Average 1.69



Model: OA-868M09-NF



Antenna Size Chat



Model: OA-868M09-NF

Packing List & Label List

	1 Set Packing	1530*80*80mm
	Antenna	
	Stainless steel "U type" screw	
	M6 Stainless steel screw mat slice	
	M6 Stainless steel screw	
	Water proof tape	
	Carton(10pcs)	
	ITEM NO.	OA-868M09-NF 10 set
Q'TY		PCS
G. W.		KG
N. W.		KG
CARTON		1545*398*177mm

1 set carton Label		Antenna Label	
Size	50 x 80 mm(white)	Size	30x50 mm(blue)
Customer:	Manufacture Data: yy/mm/dd	OA-868M09-NF	
Customer Mode:		Frequency Range: 860MHz - 870MHz	
Order Number:		Gain: 9 dBi	
Weight:	kg	Omni-Directional Outdoor Antenna	
Carton:	Box		
Amount:	Pcs		
Paste Position		Paste Position	
			

RoHs Status(RoHs Compliant)

Certificate of Compliance

Date:

FT-RF hereby certifies that product

Model	Product
OA-868M09-NF	860MHz - 870MHz 9dBi Omni-Directional Outdoor Antenna

Is in conformance with the requirements of the European RoHS Directive 2011/65/EU, and that all materials referenced therein are in concentrations below the maximum allowable levels specified.

Our statements in this letter regarding RoHS compliance do not extend to, or apply to any product subjected to unintended contamination, misuse, neglect, accident, improper installation, or to use in violation of instructions furnished by FT-RF.

Sincerely,

FT-RF (Fei Teng Wireless Technology CO.,LTD)

The information contained in this letter is being provided for informational purposes only and to clarify certain information concerning FT-RF products. Nothing provided in this letter is

- (1) a representation, warranty or agreement to indemnification by FT-RF.
- (2) a statement which may form the basis of reliance by FT-RF,
- (3) a modification of any of the terms and conditions of sale agreed to in writing between FT-RF and its customers with respect to any FT-RF products, whether previously sold or to be sold in the future.