

Customer	
Date	2014 / 1 / 2
Product	OA-868M09-NF 860MHz – 870MHz 9dBi Omni-Directional Outdoor Antenna
REV	1

FEI TENG WIRELESS TECHNOLOGY CO. , LTD.

APPROVAL SHEET

Customer Approved By	Approve	Chief	Responsible

860-870MHz 9dbi Outdoor Omni Directional Antenna



OA-868M09-NF is a high quality of the ISM Band 860-870 MHz Omni-directional antenna networks can be used in Bluetooth, public wireless hotspot applications and other coverage of point-to-multipoint applications Canton, is the ideal.

OA-868M09-NF internal antenna is a spring material, and excellent appearance for the stability of fiberglass tube, the base is produced by molding aluminum alloy body, has multiple internal and coupled with water-resistant viscose and has a good wind resistance and prevention of water entry and the overall structure of anti-ultraviolet.

Applications:

- 860-870 MHz Band
- Directional and multipoint applications
- Bluetooth
- Public Wireless Hotspot
- RFID
- Wireless Video Systems

Features :

- Superior performance
- Light weight
- All weather operation
- DC Short lightning protection
- Installed for vertical
- Includes tilt and swivel mast mount

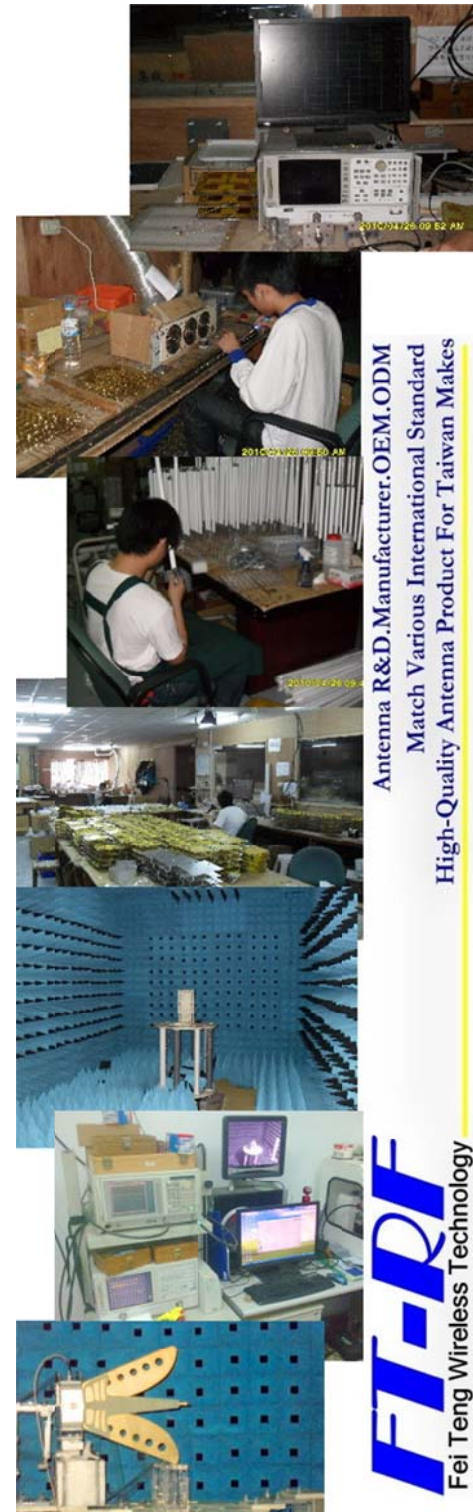


Electrical Specifications

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

Mechanical Specifications

Length (MAX)	1480 mm
Diameter (MAX)	70 mm
Antenna Weight (G.W)	800 g
Accessories (G.W)	70 g
Application	Indoor / Outdoor
Radom 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%~90% non-condensing
Storage Humidity	5%~90% non-condensing
Safety, Emission and other	RoHS



Antenna R&D Manufacturer OEM/ODM
Match Various International Standard
High-Quality Antenna Product For Taiwan Makes

FT-RF
Fei Teng Wireless Technology

Fei Teng Wireless Technology Corp.

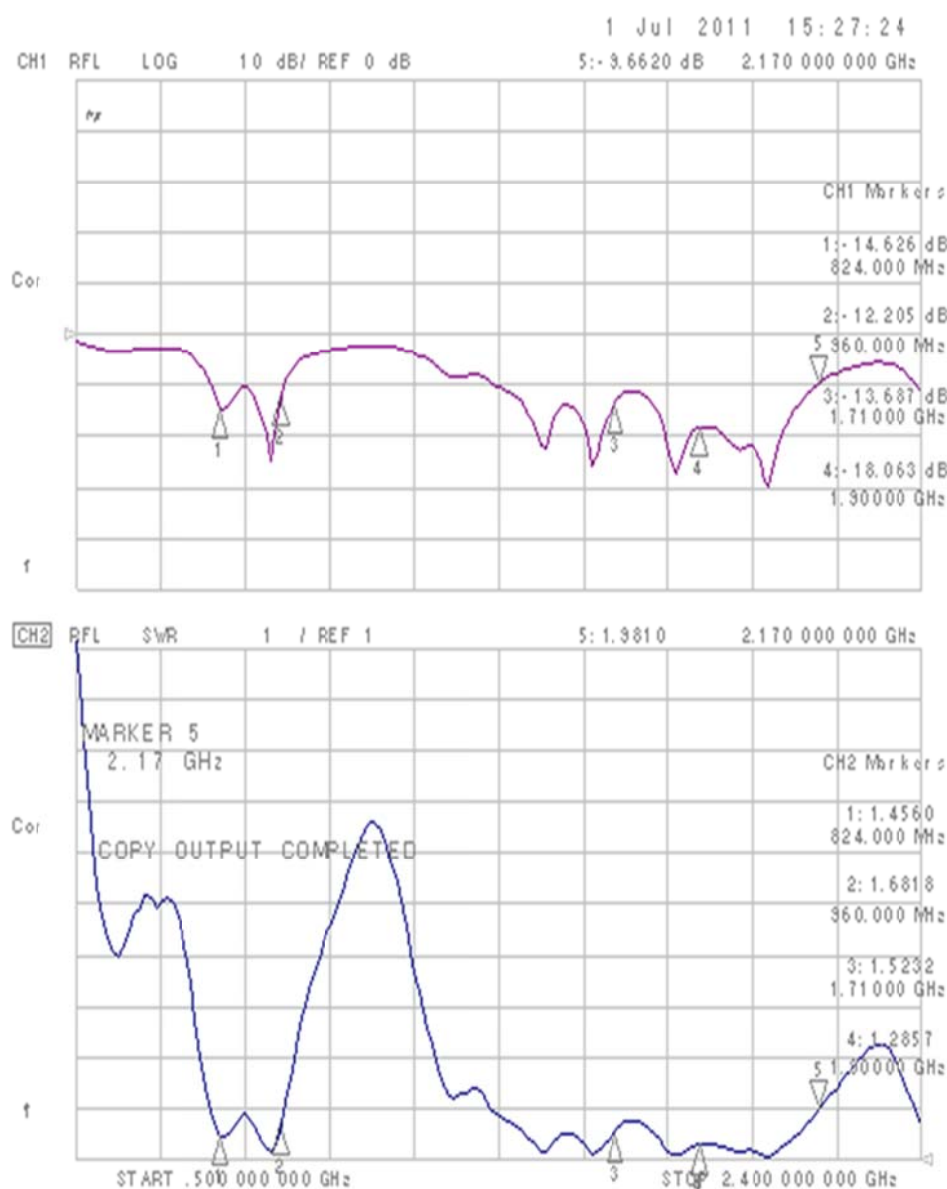
6F, no. 10-10 Guangming 9th Rd. Jhubei city,
Hsinchu county 302, Taiwan

TEL:886-3-5585239
FAX:886-3-5585143
<http://www.FT-RF.com>
[e-mail:ft@ft168.com.tw](mailto:ft@ft168.com.tw)

Network Analyzer Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Test Equipment Cable	Agilent 60cm Sma male to Sma male
RF connector Adapter	Agilent SMA-Female to N-Male DC~18GHz
Correction	85052D-DC-26.5Ghz
Test Model	OA-868M09-NF
Test Port	S11

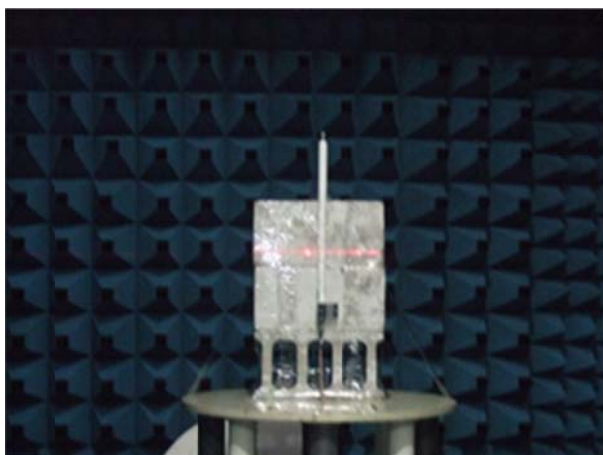
Return Loss & V.S.W.R



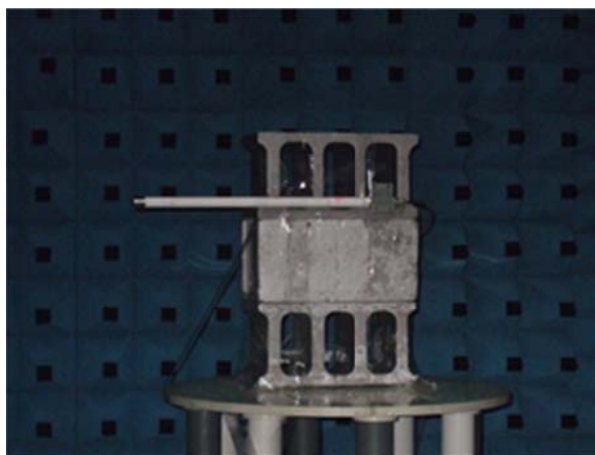
RF Chamber Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Chamber	7M(D) X 7M(H) X14M(L)
Test Frequency	860MHz-870MHz
Test Antenna	FT-RF HA-07M18G-NF

Vertical Pattern Photos

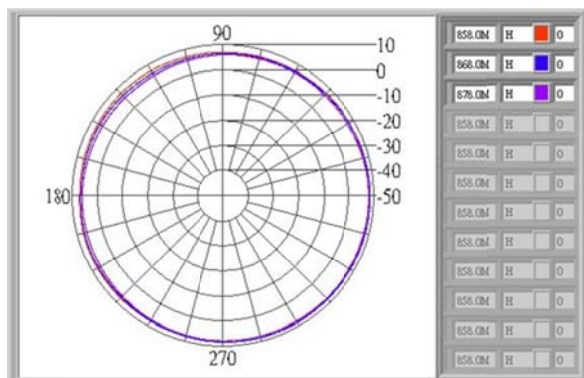


Horizontal Pattern Photos



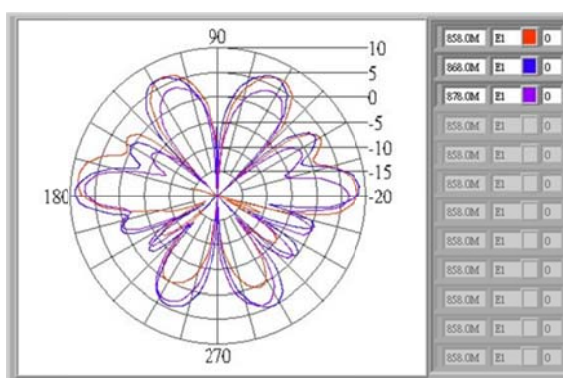
Vertical Pattern

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



Horizontal Pattern

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



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<http://www.FT-RF.com>

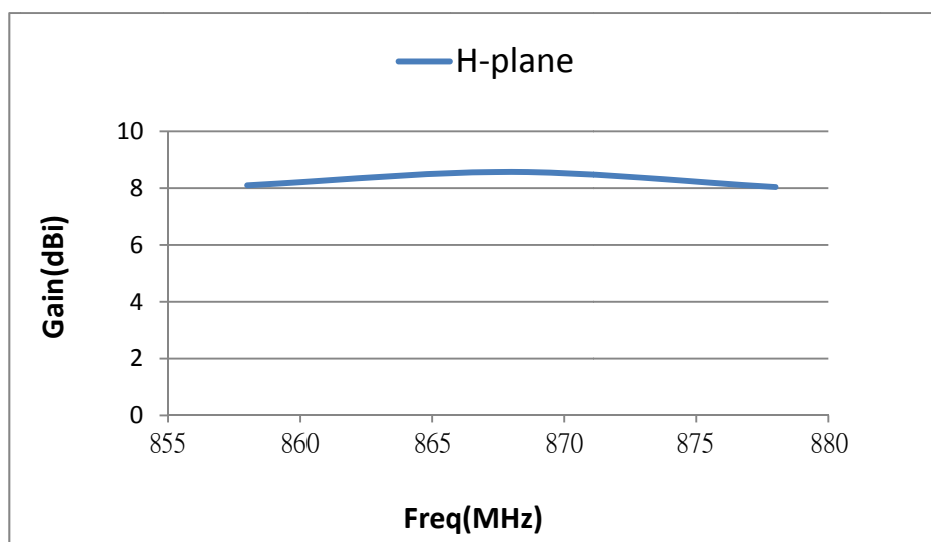
e-mail:ft@ft168.com.tw

Antenna Gain Curve

H-plane

MHz	dBi
858	8.1
868	8.57
878	8.04

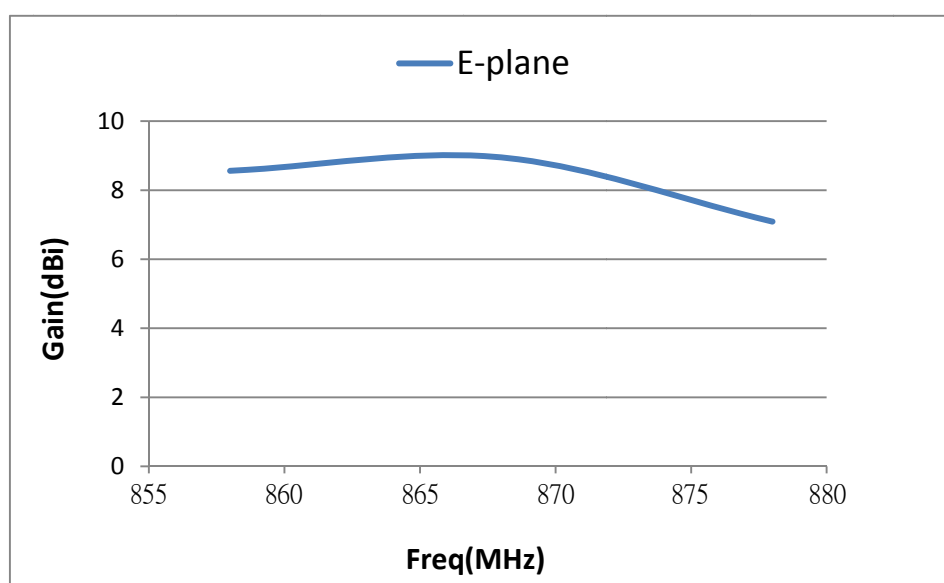
Average 8.20



E-Plane

MHz	dBi
858	8.56
868	8.95
878	7.09

Average 8.20

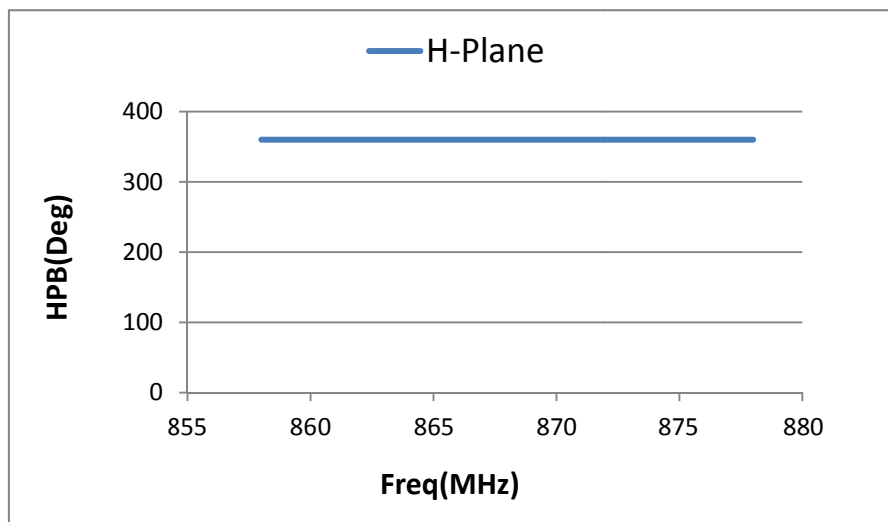


Antenna -3dB Beam-width Curve

H-Plane

MHz	Deg
858	360
868	360
878	360

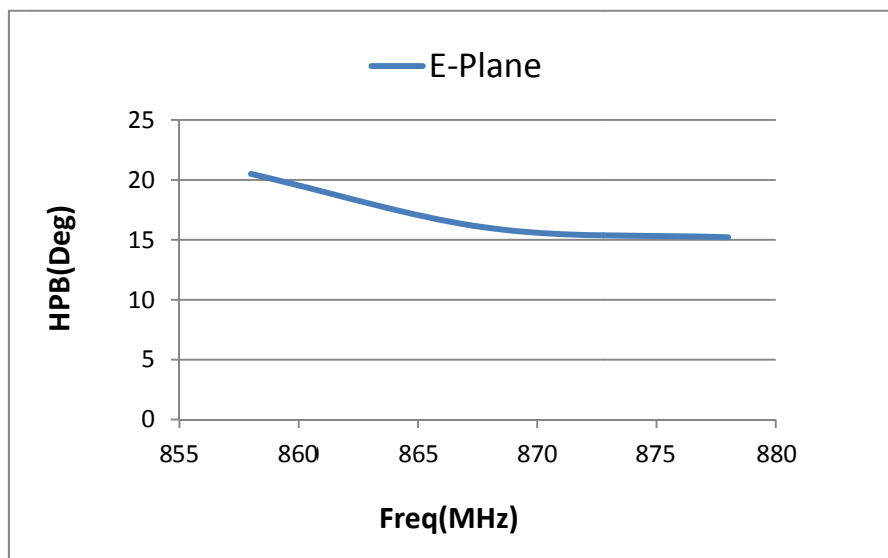
Average 360



E-Plane

MHz	Deg
858	20.5
868	15.98
878	15.21

Average 17.23



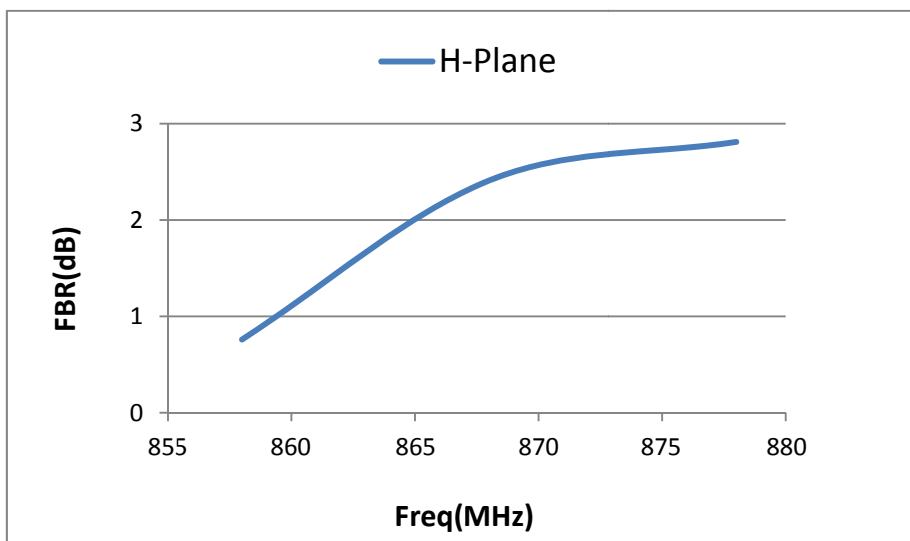
Model: OA-868M09-NF

Antenna F/B Curve

H-PLANE

MHz	dB
858	0.76
868	2.41
878	2.81

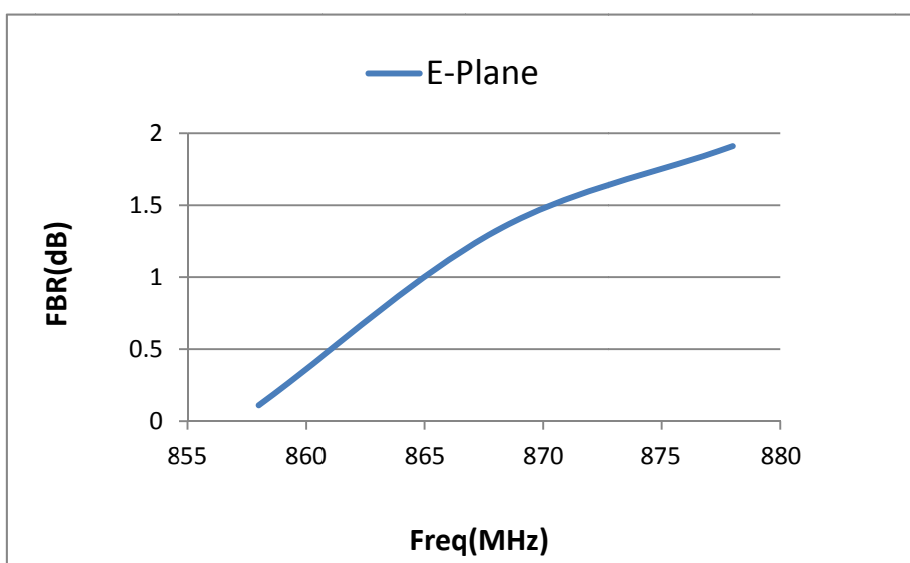
Average 1.99



E-Plane

MHz	dB
858	0.11
868	1.32
878	1.91

Average 1.11



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[e-mail:ft@ft168.com.tw](mailto:ft@ft168.com.tw)

Packing List & Label List

	1 Set Packing	300x280x90mm
	Antenna 、 U-bolt 、 Circle EPE 、 Paper tube packing 、 Water proof tape 、 Carton(10pcs)	
	ITEM NO.	OA-868M09-NF 10 set
	Q'TY	10 PCS
	G. W.	12 KG
	N. W.	8 KG
	CARTON	1545*398*177mm

Label List

1 set carton Label		Antenna Label	
Size	50 x 80mm(white)	Size	30x50mm(blue)
Customer:	Manufacture Data: yy/mm/dd	OA-868M09-NF 860-870MHz 9dbi Outdoor Omni Directional Antenna	
Customer Mode:			
Order Number:			
Weight:	kg		
Carton:	Box		
Amount:	Pcs		
Paste Position		Paste Position	
			

RoHs Status(RoHs Compliant)

Certificate of Compliance

Date:

To: Whom It May Concern:

FT-RF hereby certifies that product

Model	Product
OA-868M09-NF	860-870MHz 9dbi Outdoor Omni Directional 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.