

# RM1xx Dipole Antenna

## 863-928 MHz, Coaxial Cable to u.FL Connector



### ORDERING INFORMATION

Laird Part #	Description
0600-00060	Dipole Antenna, 863 – 928MHz, coaxial cable to u.FL connector

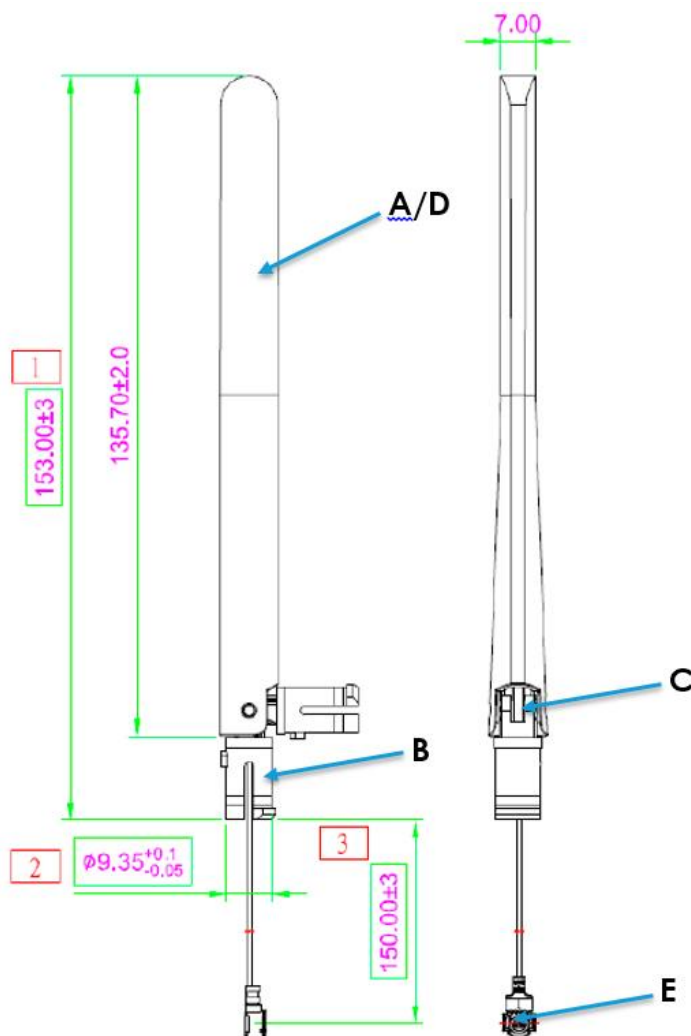
### SPECIFICATIONS

Specification	Value
Working Frequency Range	863 ~ 928 MHz (Note-1)
Gain	0.90 dBi
Return Loss	-10 dB (Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Antenna Cover	ABS, Black

Specification	Value
Antenna Base	PC+PBT, Black
Cable	Coaxial Cable 1.13, Black
PCB	FR4
Connector	IPEX Compatible

**Note:** Central Frequency should be defined after customers' application approval.

## PHYSICAL DIMENSIONS



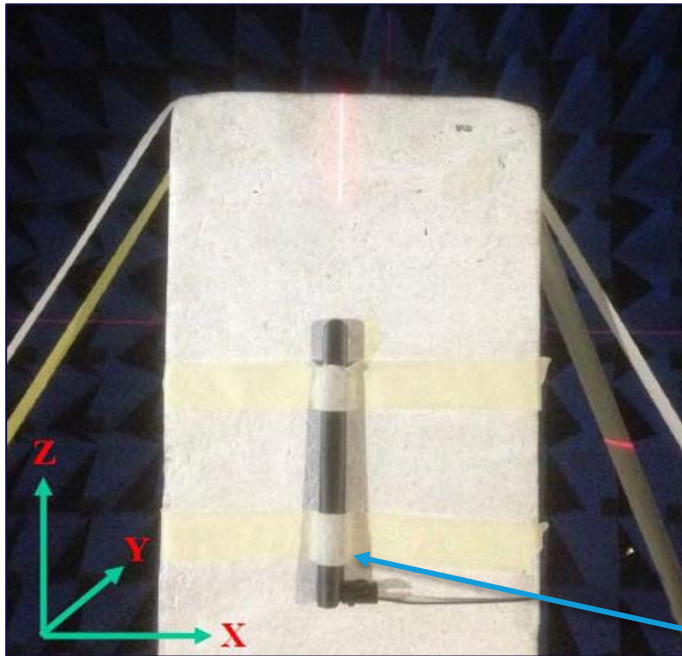
No.	Description
A	Antenna cover
B	Antenna base
C	Cable
D	PCB
E	Connector

Unit = mm

Rev. A

## TEST REPORT

### Experimental Setup



RM1xx Antenna

Figure 1: Antenna test setup

### Electrical Characteristics – Return Loss

Figure shows a ten dB return loss.

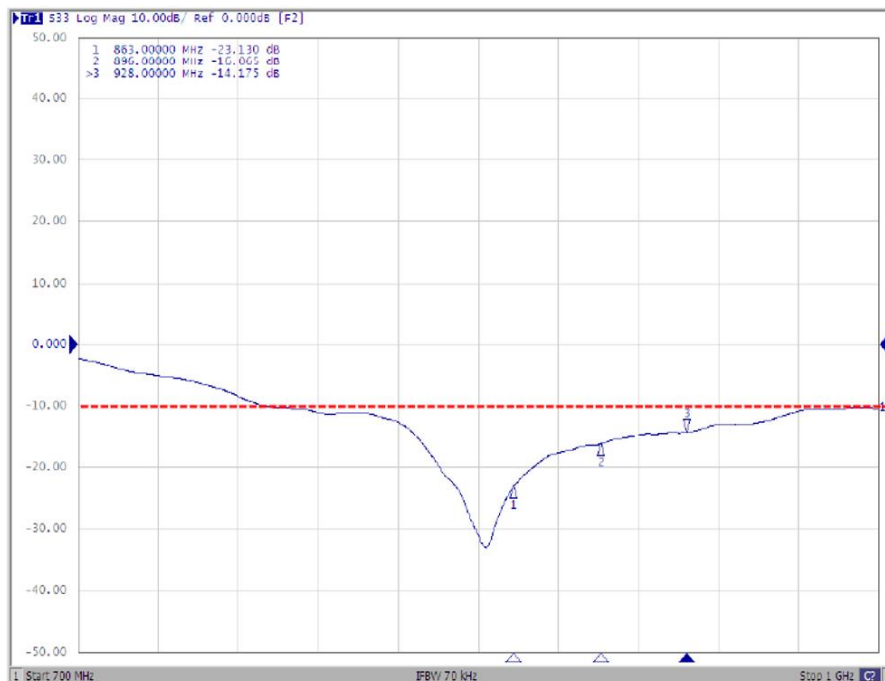


Figure 2: Ten dB Return Loss

## Antenna and Peak Gain

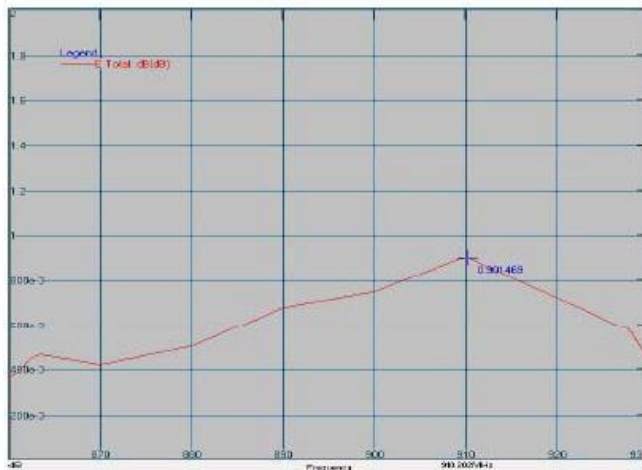
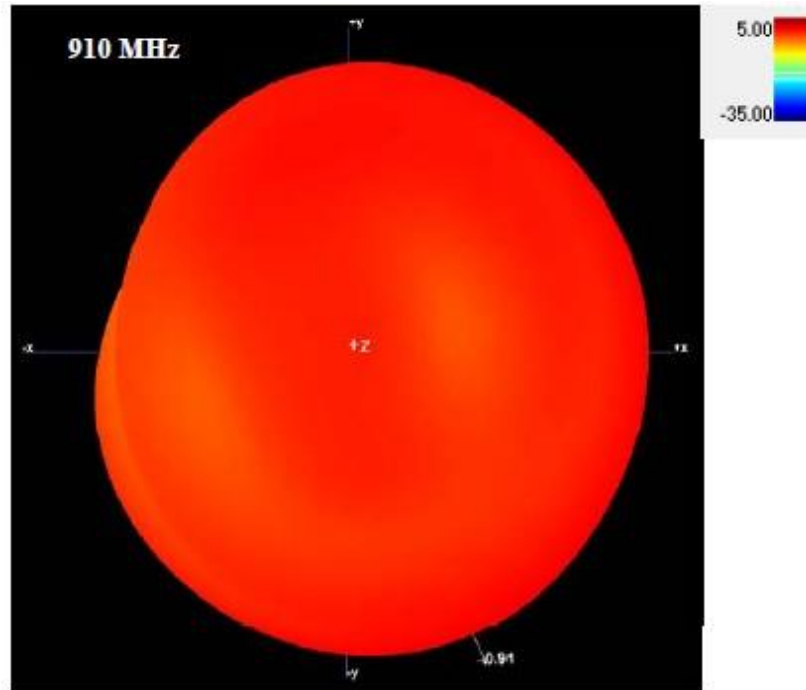


Figure 3: Maximum efficiency at 890 MHz: 57.30%

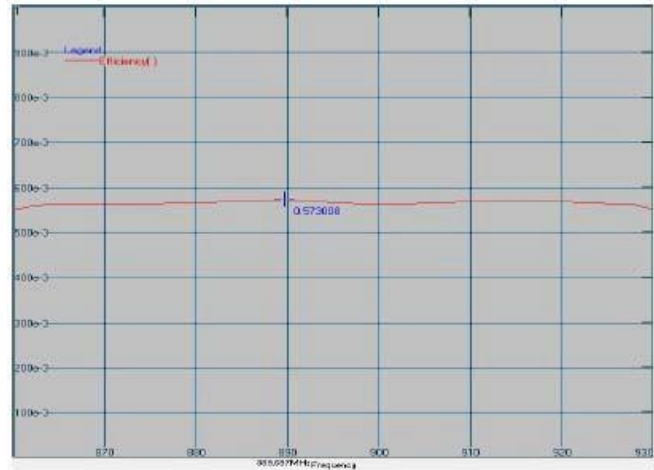
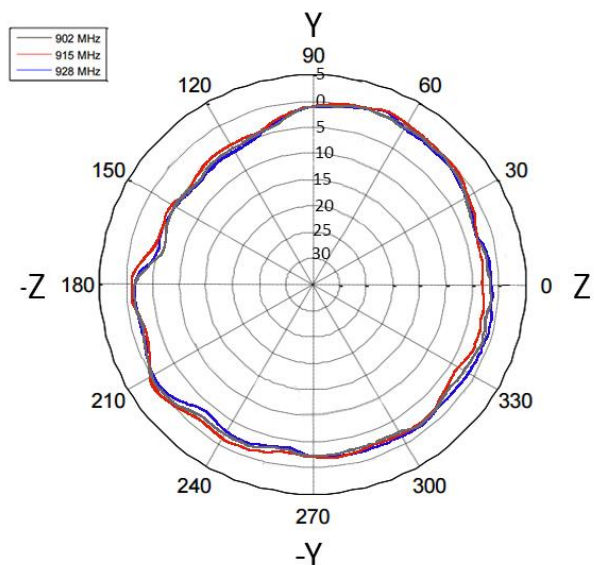


Figure 4: Maximum peak gain at 910 MHz: 0.90 dBi

## Radiation Pattern

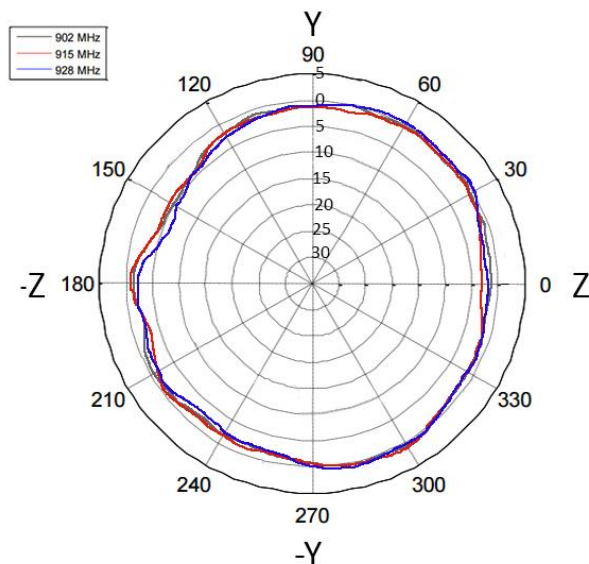
### ZX Plane

Phi = 0.00 degrees (Gain in dB)



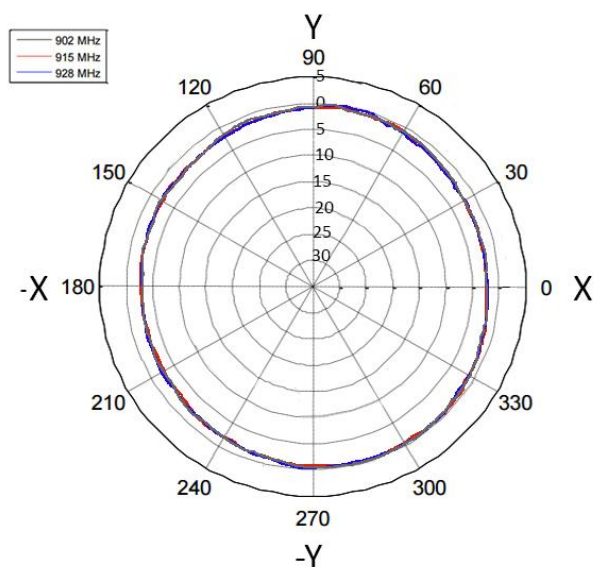
### ZY Plane

Phi = 90.00 degrees (Gain in dB)



### XY Plane

Theta = 90.00 degrees (Gain in dB)



	ZX Plane		ZY Plane		XY Plane	
Freq. (MHz)	Max (dB)	Ave (dB)	Max (dB)	Ave (dB)	Max (dB)	Ave (dB)
860	0.36	-2.77	0.07	-2.15	-0.73	-2.36
890	0.12	-2.72	-0.11	-1.80	-0.21	-2.08
930	-0.09	-2.80	0.21	-1.95	-0.47	-2.22

**Note:** This antenna is not manufactured by Laird. It is manufactured by Walsin, one of our suppliers. All test data and specifications are provided by Walsin.

## REVISION HISTORY

Version	Date	Notes	Approver
1.0	TBD	Initial Release	Jonathan Kaye

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