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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

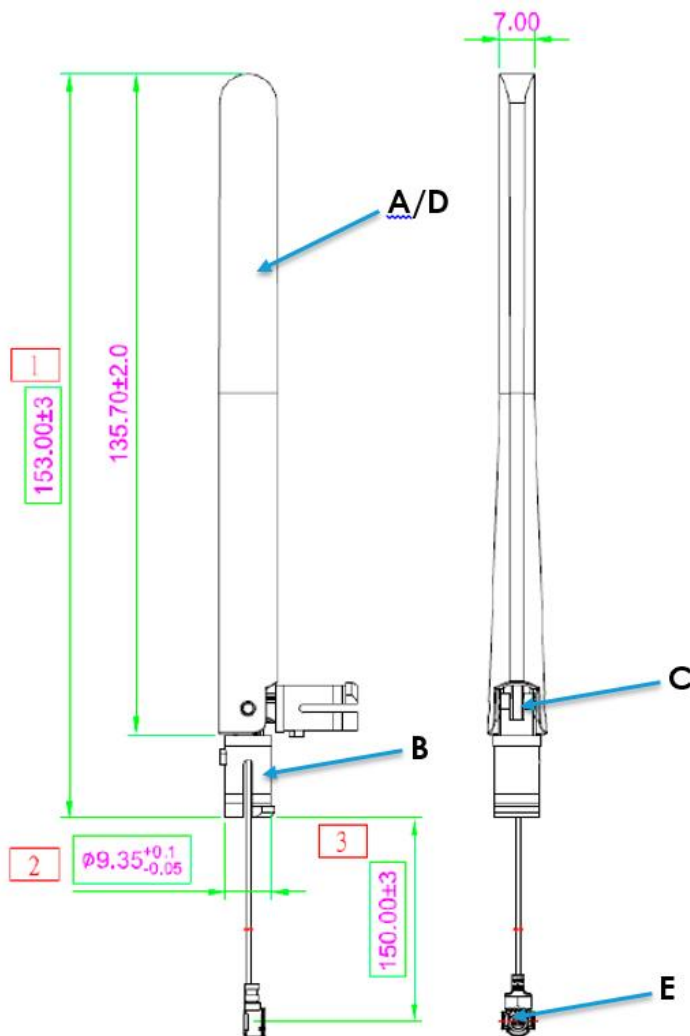
SPECIFICATIONS

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 ψ1.13, Black
PCB	FR4
Connector	IPEX Compatible

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

PHYSICAL DIMENSIONS



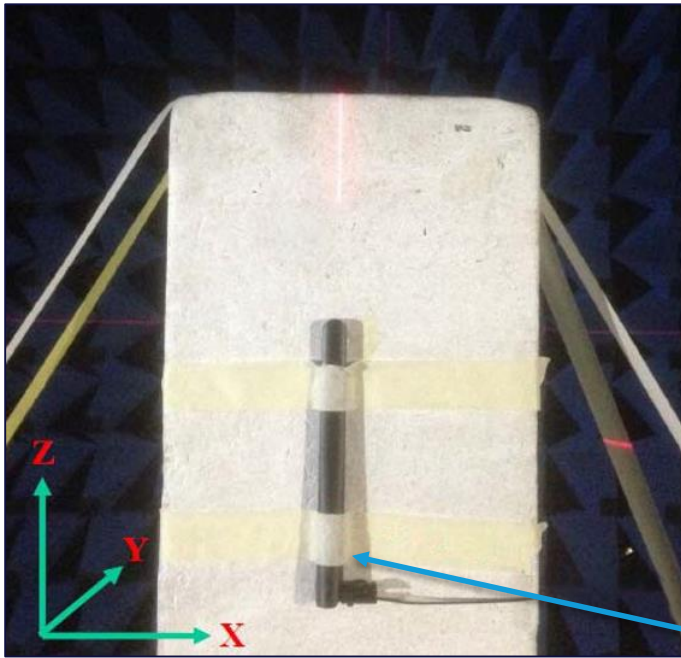
No.	Description
A	Antenna cover
B	Antenna base
C	Cable
D	PCB
E	Connector

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.

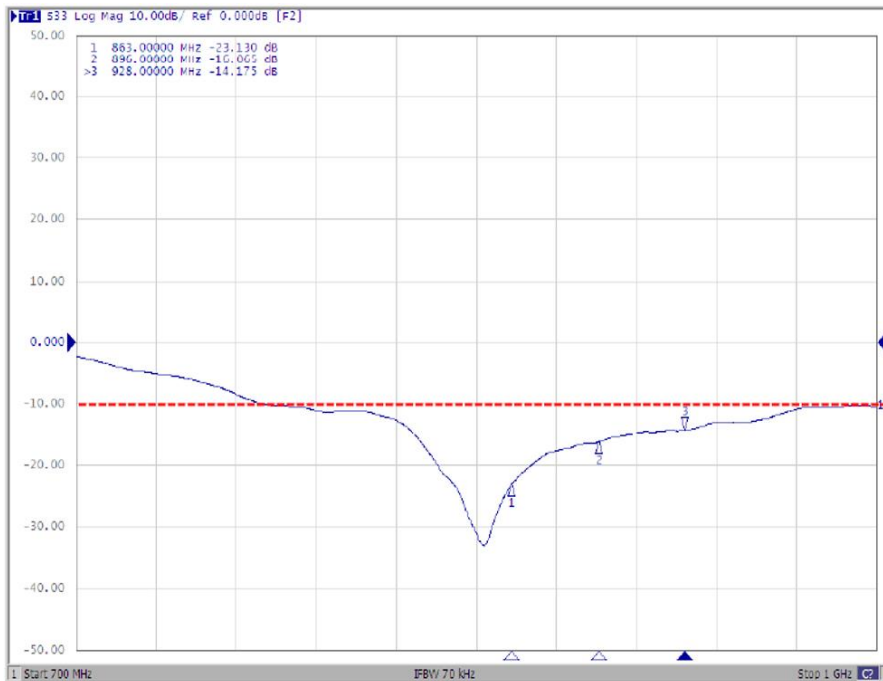


Figure 2: Ten dB Return Loss

Antenna and Peak Gain

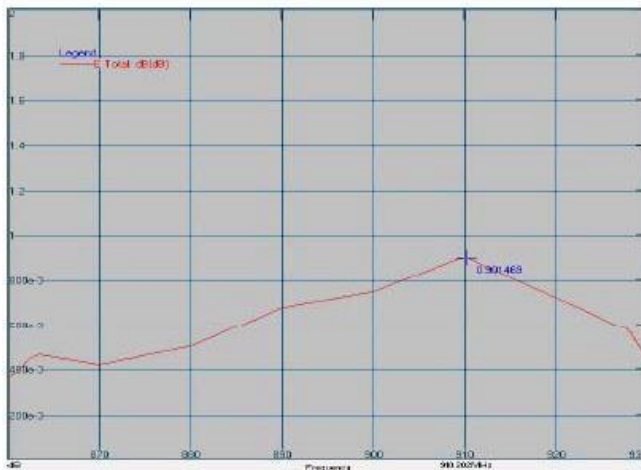
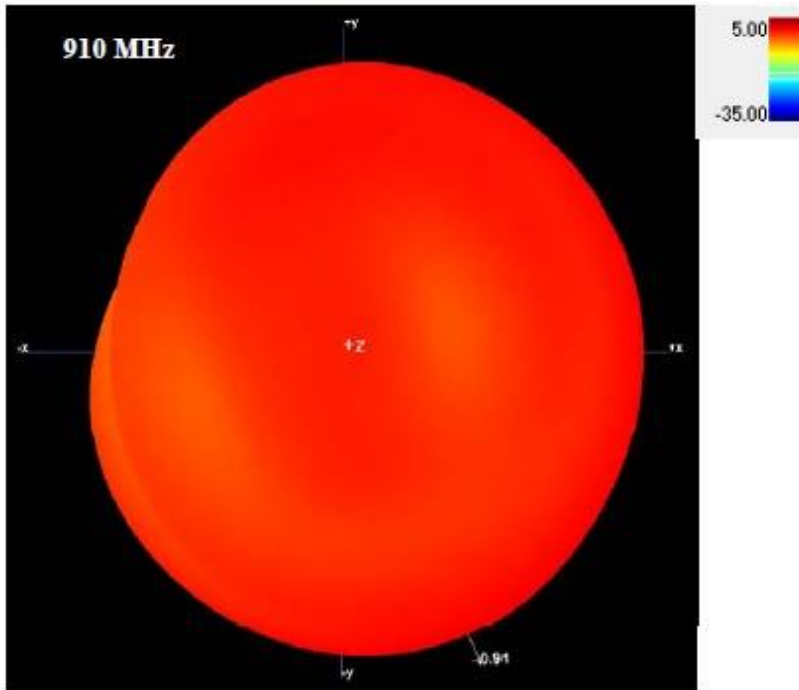


Figure 3: Maximum efficiency at 890 MHz: 57.30%

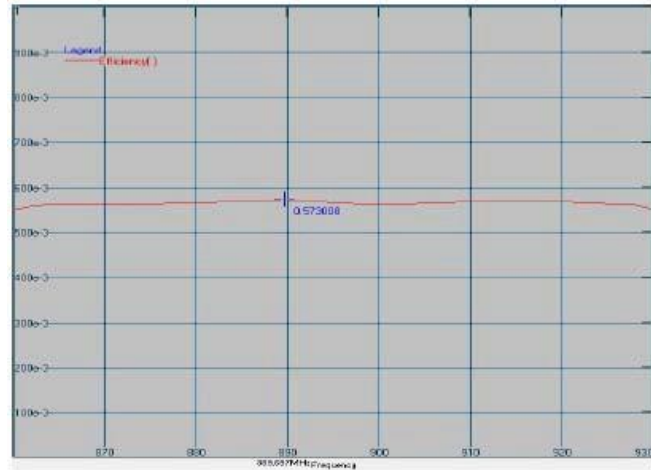
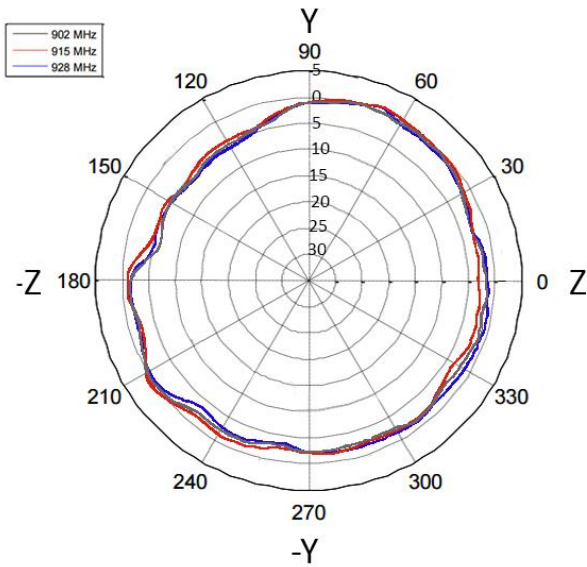


Figure 4: Maximum peak gain at 910 MHz: 0.90 dBi

Radiation Pattern

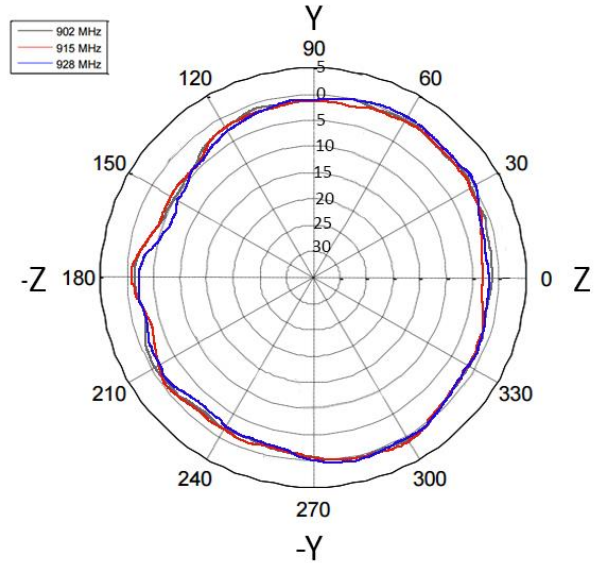
ZX Plane

Phi = 0.00 degrees (Gain in dB)



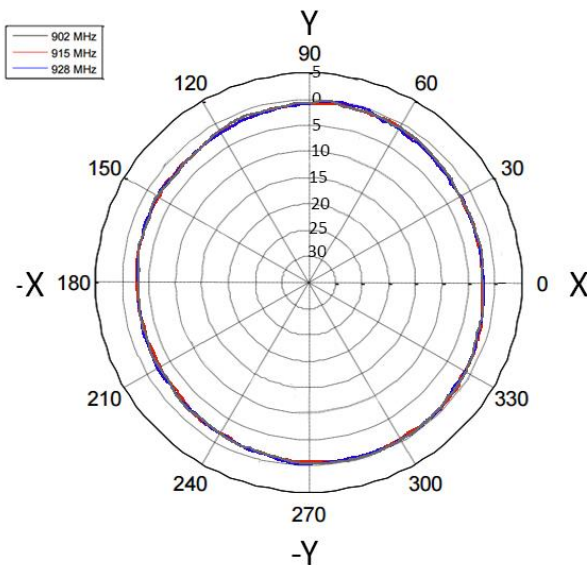
ZY Plane

Phi = 90.00 degrees (Gain in dB)



XY Plane

Theta = 90.00 degrees (Gain in dB)



Freq. (MHz)	ZX Plane		ZY Plane		XY Plane	
	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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