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

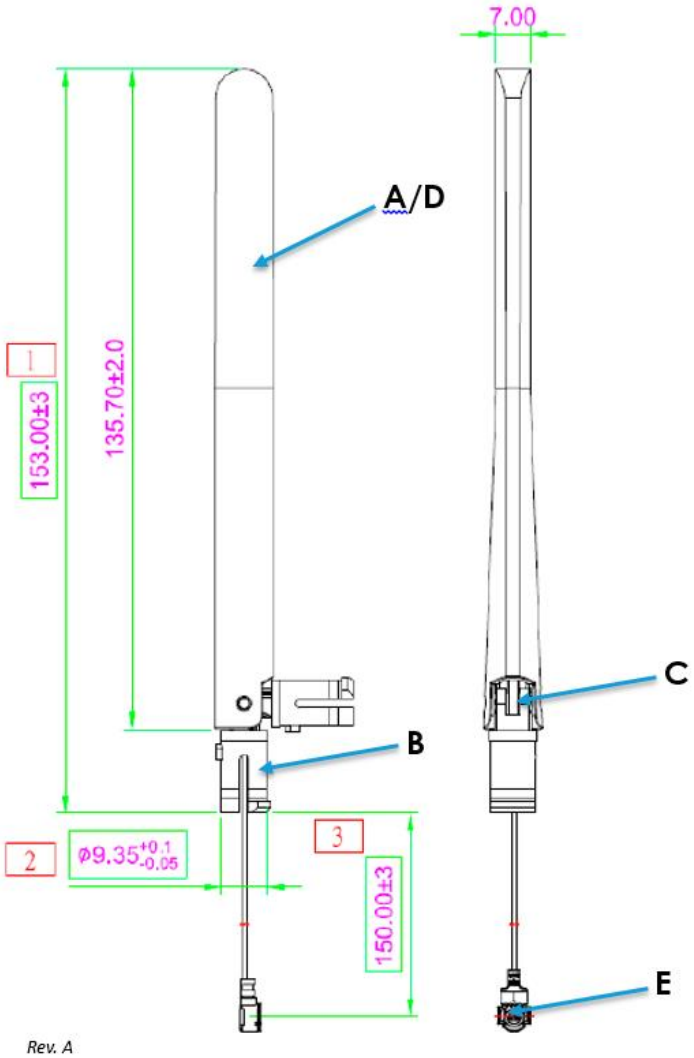
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Specification	Value
Antenna Base	PC+PBT, Black
Cable	Coaxial Cableψ1.13,Black
PCB	FR4
Connector	IPEX Compatible

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

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TEST REPORT

Experimental Setup

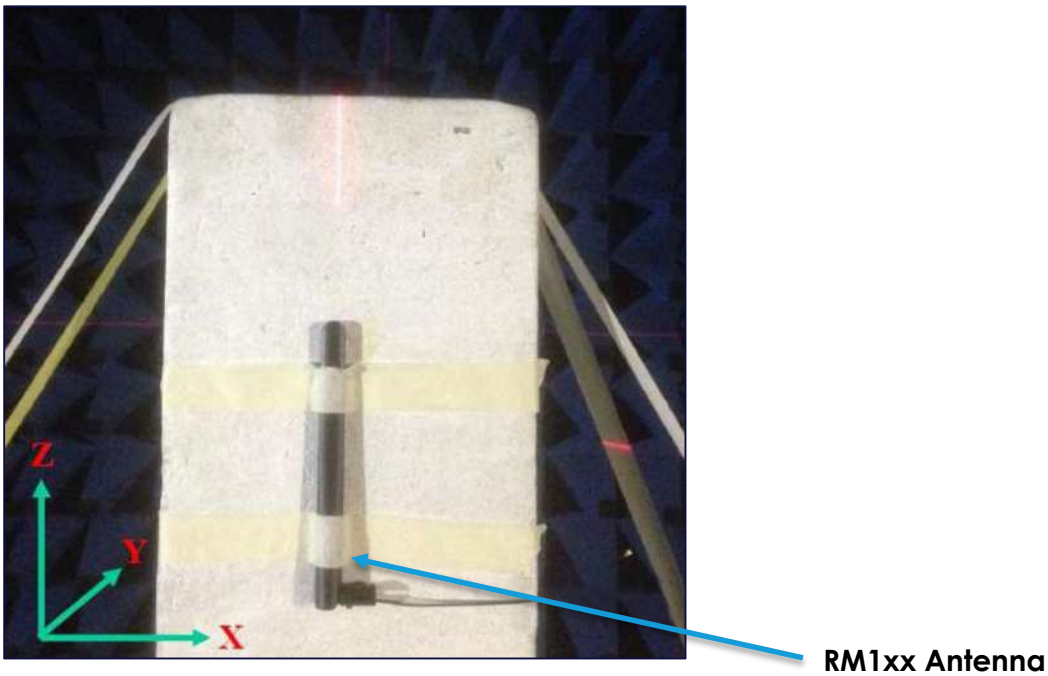


Figure 1: Antenna test setup

Electrical Characteristics – Return Loss

Figure shows a ten dB return loss.

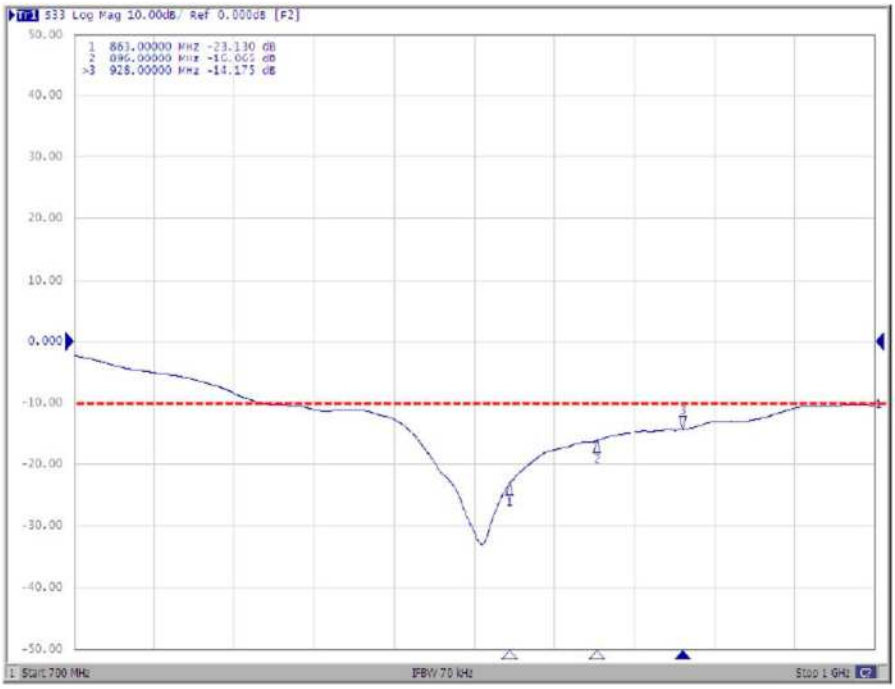
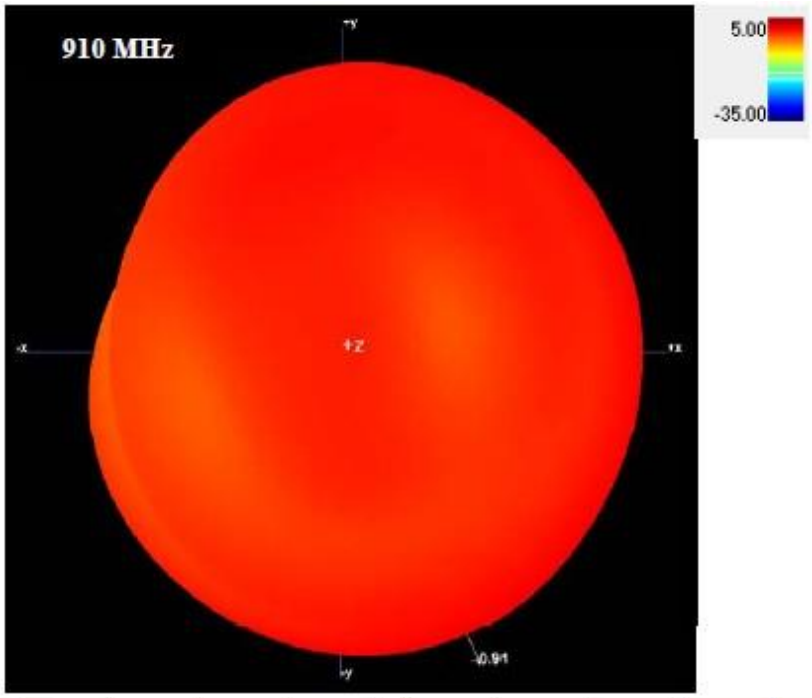


Figure 2: Ten dB Return Loss

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Antenna and Peak Gain



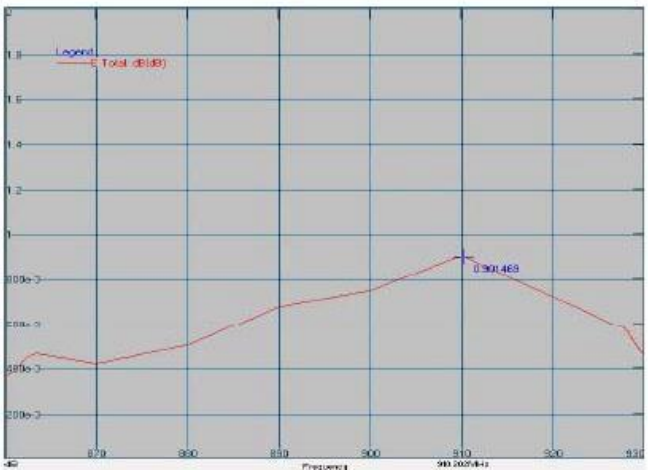


Figure 3: Maximum efficiency at 890 MHz: 57.30%

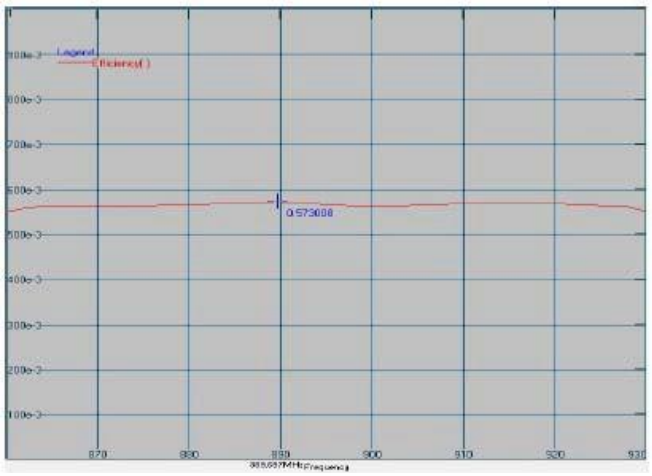


Figure 4: Maximum peak gain at 910 MHz: 0.90 dBi

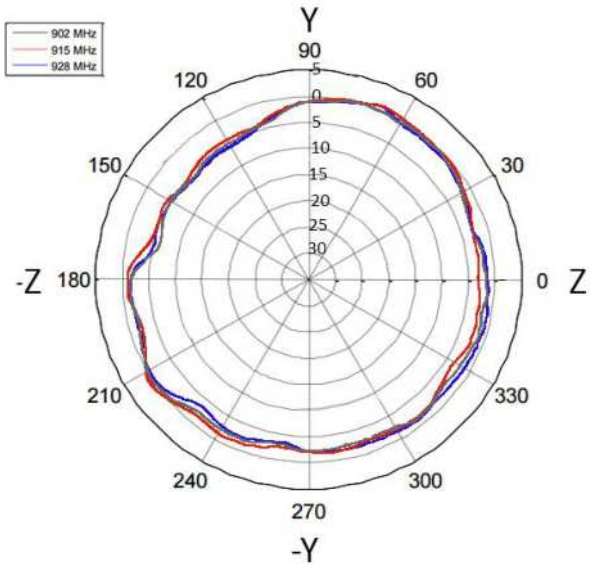
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Radiation Pattern

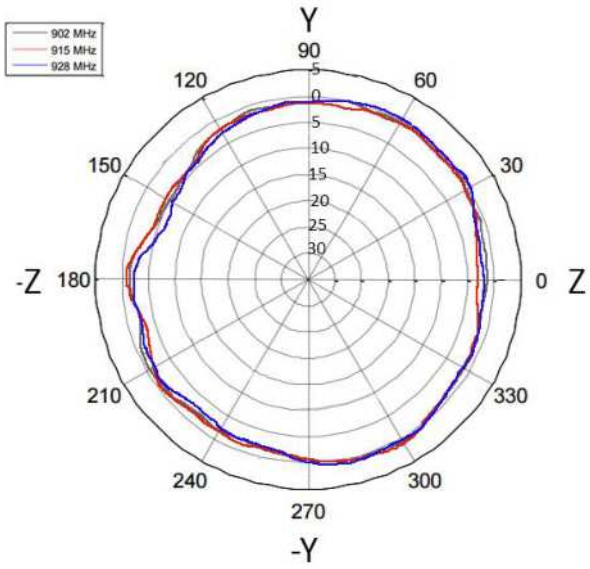
ZX Plane

Phi = 0.00 degrees (Gain in dB)



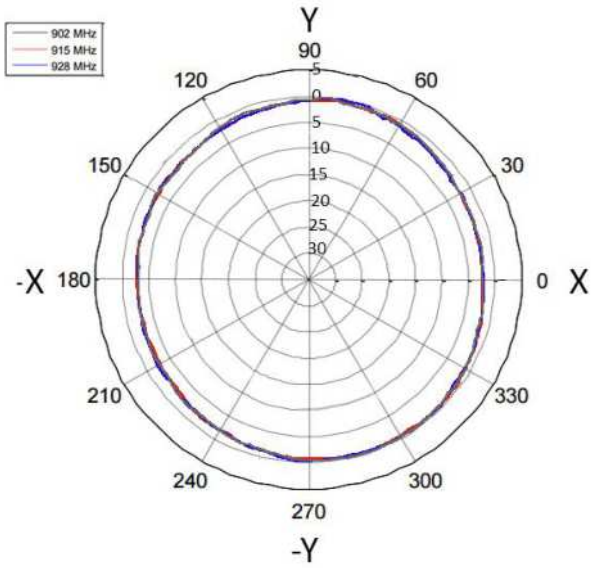
ZY Plane

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.

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REVISION HISTORY

Version	Date	Notes	Approver
1.0	TBD	Initial Release	Jonathan Kaye

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