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		

RM1xx Dipole Antenna

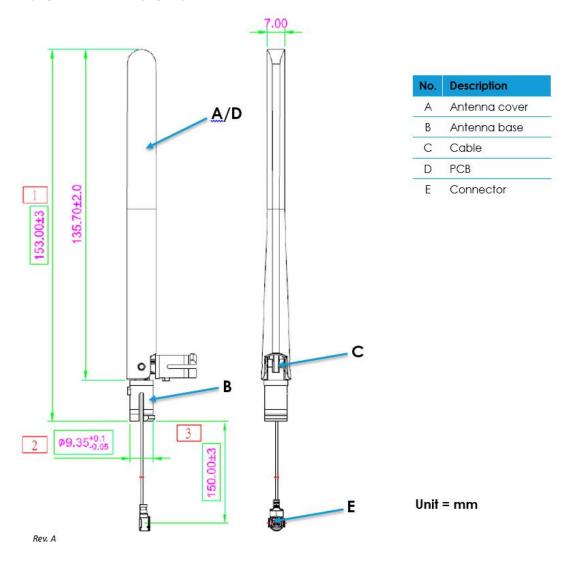
Data Sheet



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



Laird

TEST REPORT

Experimental Setup

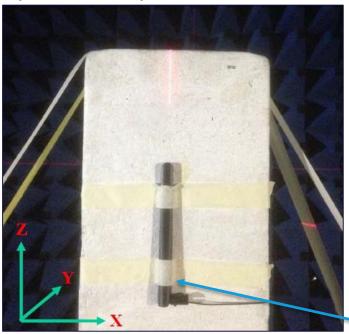


Figure 1: Antenna test setup

RM1xx Antenna

Electrical Characteristics – Return Loss

Figure shows a ten dB return loss.

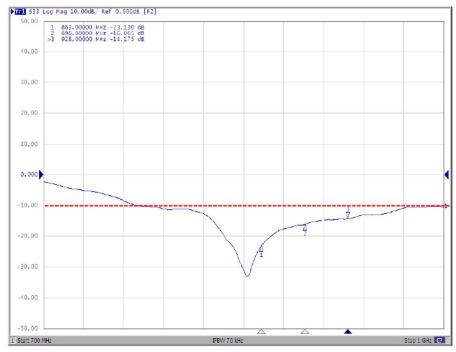


Figure 2: Ten dB Return Loss



Antenna and Peak Gain

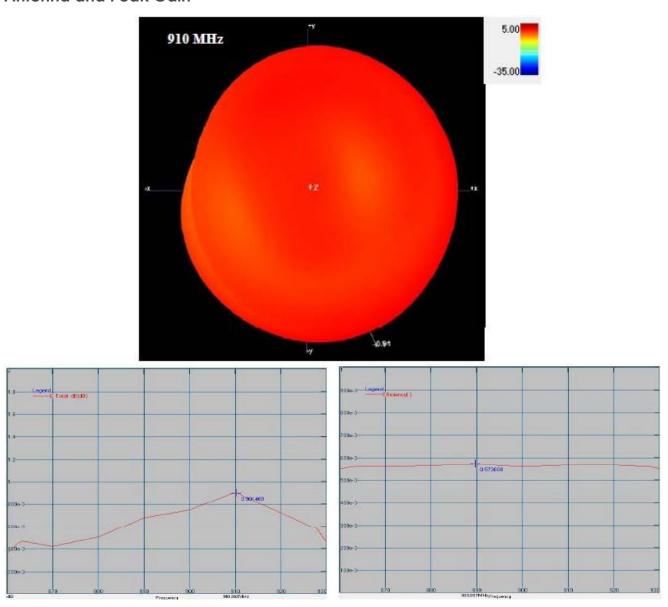


Figure 3: Maximum efficiency at 890 MHz: 57.30%

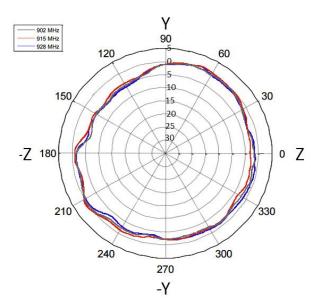
Figure 4: Maximum peak gain at 910 MHz: 0.90 dBi



Radiation Pattern

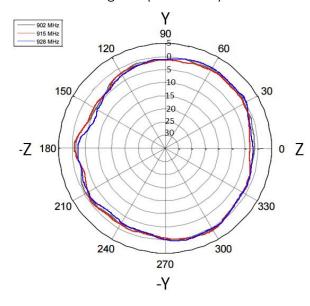
ZX Plane

Phi = 0.00 degrees (Gain in dB)



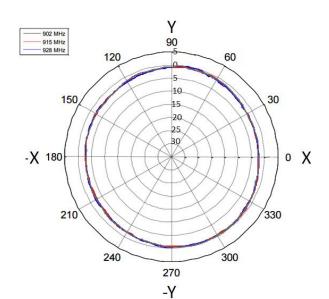
ZY Plane

Phi = 90.00 degrees (Gain in dB)



XY Plane

Theta = 90.00 degrees (Gain in dB)



	ZX P	lane	ZY P	lane	XY P	lane
Freq.	Max	Ave	Max	Ave	Max	Ave
(MHz)	(dB)	(dB)	(dB)	(dB)	(dB)	(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.

RM1xx Dipole Antenna

Data Sheet



REVISION HISTORY

Version	Date	Notes	Approver
1.0	TBD	Initial Release	Jonathan Kaye

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