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

Embedded Wireless Solutions Support Center: http://ews-support.lairdtech.com www.lairdtech.com/wireless 1

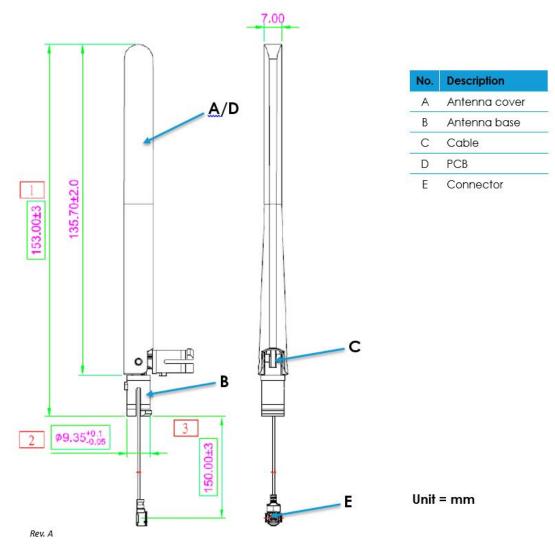
Data Sheet



Value
PC+PBT, Black
Coaxial Cabley1.13,Black
FR4
IPEX Compatible

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

Physical Dimensions

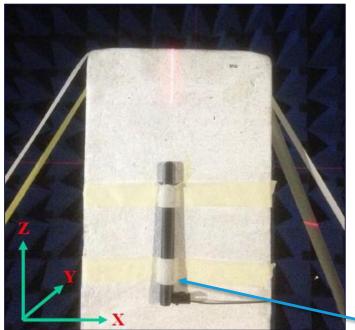


Embedded Wireless Solutions Support Center: http://ews-support.lairdtech.com www.lairdtech.com/wireless



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

Embedded Wireless Solutions Support Center: http://ews-support.lairdtech.com www.lairdtech.com/wireless

Data Sheet



Antenna and Peak Gain

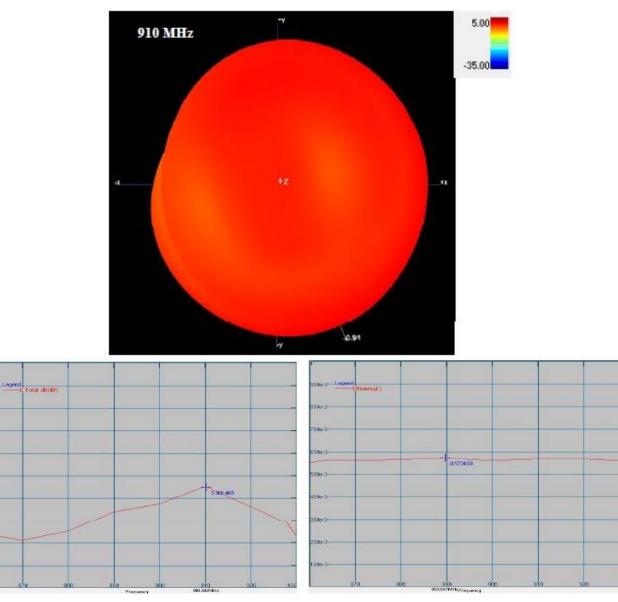
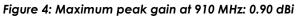


Figure 3: Maximum efficiency at 890 MHz: 57.30%



© Copyright 2016 Laird. All Rights Reserved

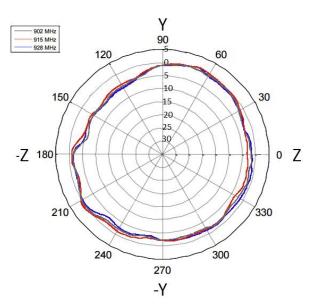
Data Sheet

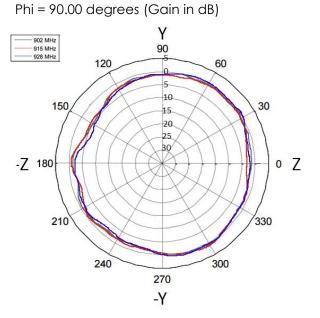


Radiation Pattern

ZX Plane

Phi = 0.00 degrees (Gain in dB)

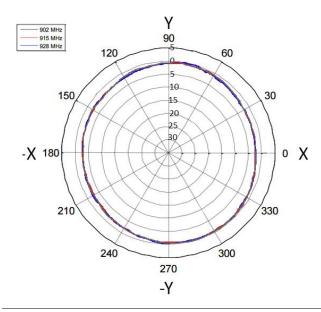




ZY Plane

XY Plane

Theta = 90.00 degrees (Gain in dB)



	ZX Plane		ZY Plane		XY Plane	
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.

Embedded Wireless Solutions Support Center: http://ews-support.lairdtech.com www.lairdtech.com/wireless

Data Sheet



REVISION HISTORY

	ate Note	5	Approver
1.0 27 Ju	ly 2016 Initial	Release	Jonathan Kaye

© Copyright 2016 Laird. All Rights Reserved. Patent pending. Any information furnished by Laird and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials or products rests with the end user since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to non-infringement nor as to the fitness, merchantability, or sustainability of any Laird materials or products for any specific or general uses. Laird, Laird Technologies, Inc., or any of its affiliates or agents shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of Sale in effect from time to time, a copy of which will be furnished upon request. When used as a tradename herein, *Laird* means Laird PLC or one or more subsidiaries of Laird PLC. LairdTM, Laird TechnologiesTM, corresponding logos, and other marks are trademarks or registered trademarks of Laird. Other marks may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property right.

Embedded Wireless Solutions Support Center: http://ews-support.lairdtech.com www.lairdtech.com/wireless