Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610

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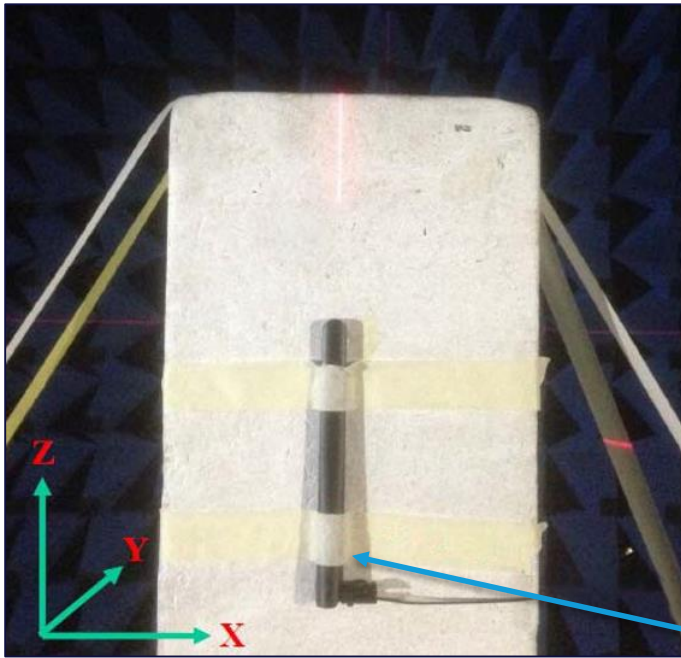
PHYSICAL DIMENSIONS
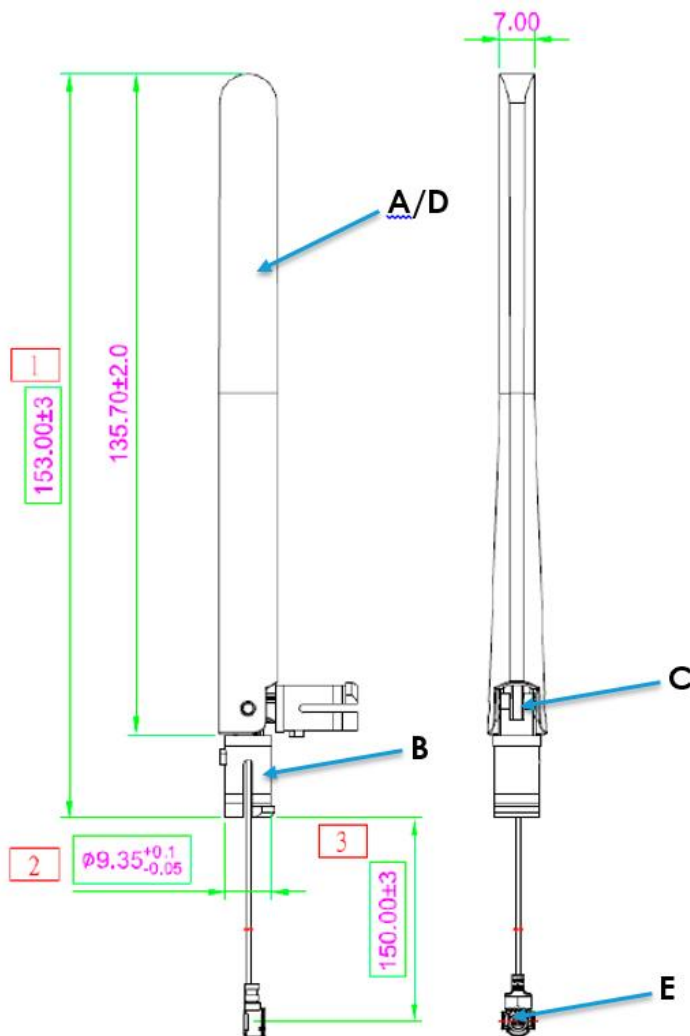
No.	Description
A	Antenna cover
B	Antenna base
C	Cable
D	PCB
E	Connector

Unit = mm

Rev. A

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

2

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610

TEST REPORT

Experimental Setup

Figure 1: Antenna test setup

RM1xx Antenna

Electrical Characteristics – Return Loss

Figure shows a ten dB return loss.
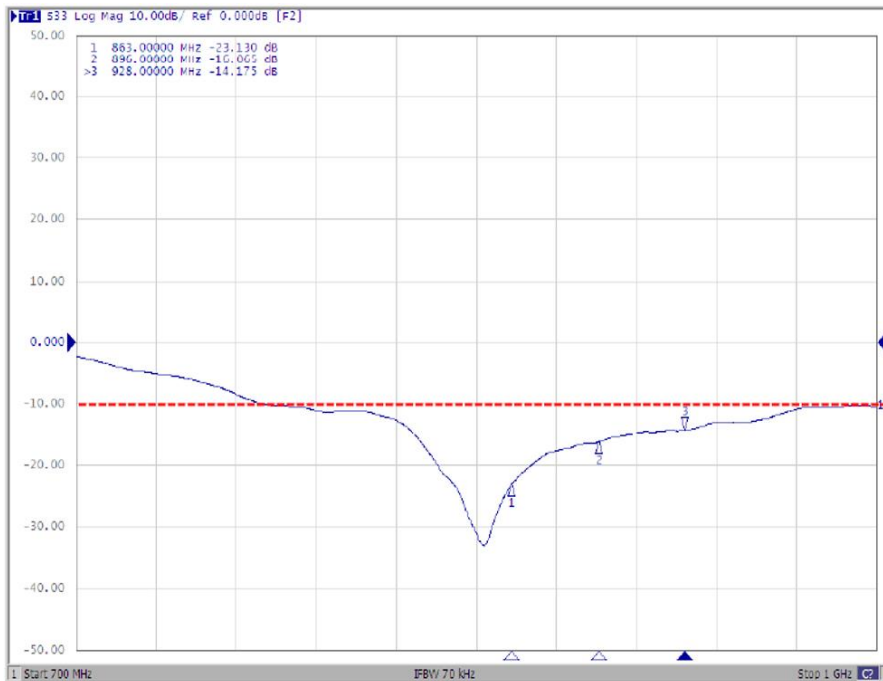
Figure 2: Ten dB Return Loss

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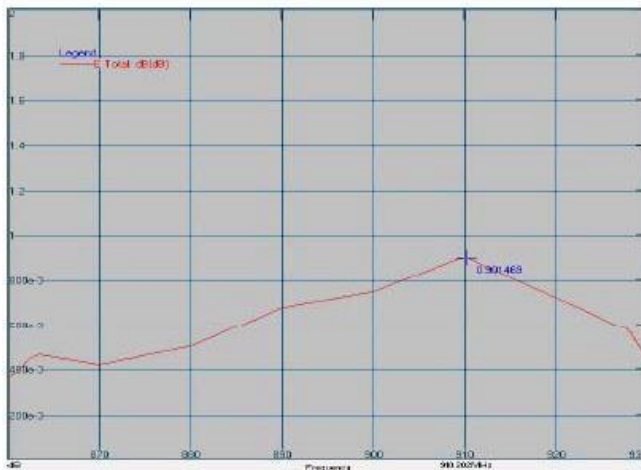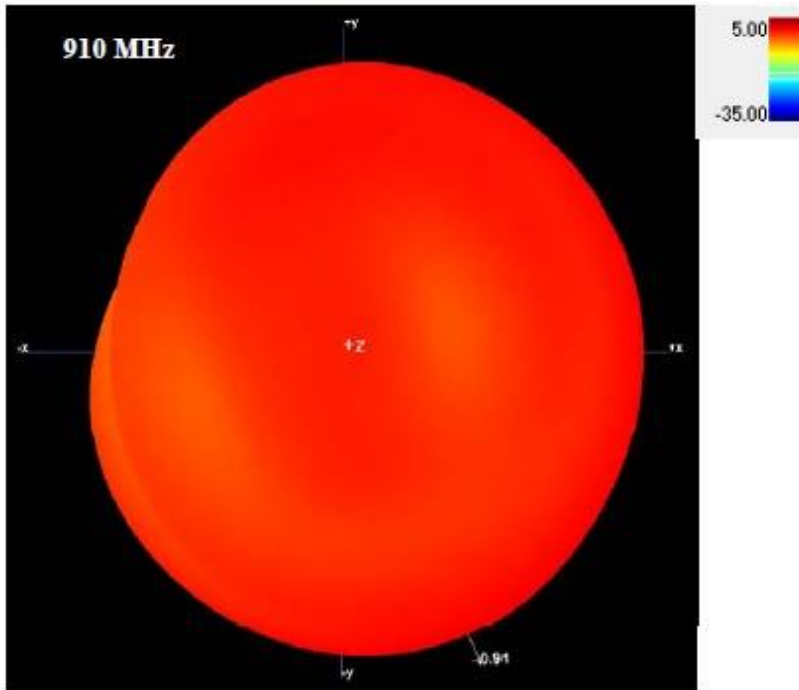Center: http://ews-support.lairdtech.com
www.lairdtech.com/wireless

3

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610

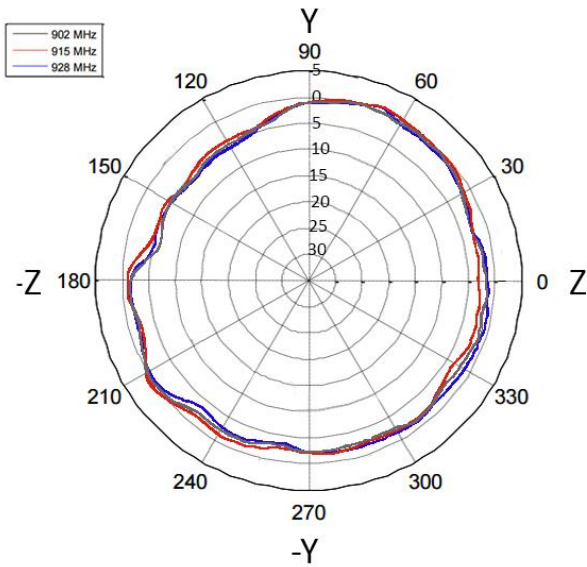## Antenna and Peak Gain

Figure 3: Maximum efficiency at 890 MHz: 57.30%
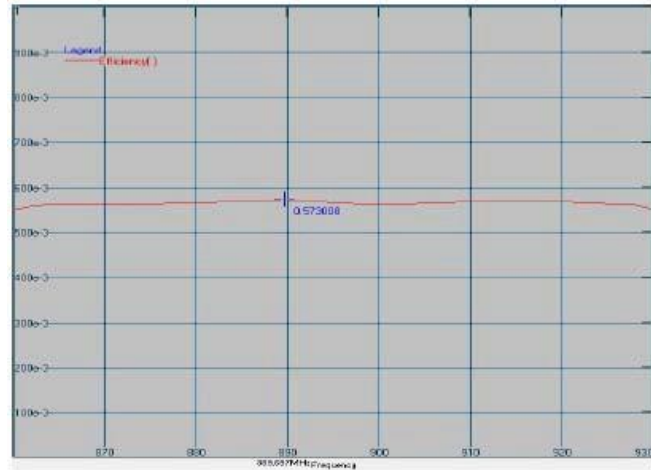
Figure 4: Maximum peak gain at 910 MHz: 0.90 dBi

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

4

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610

Radiation Pattern

ZX Plane

Phi = 0.00 degrees (Gain in dB)

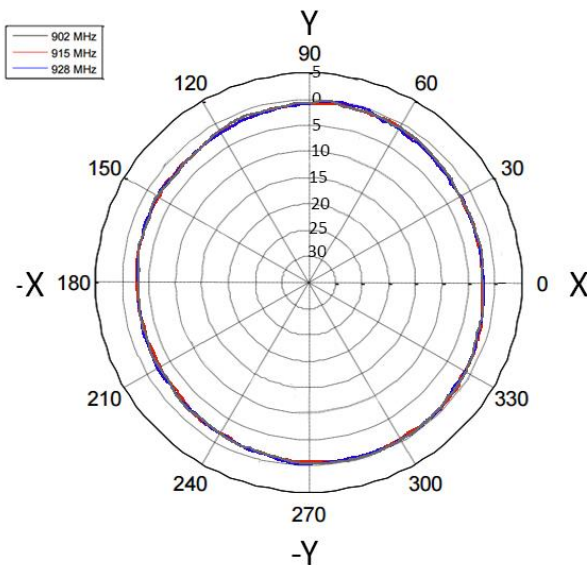### ZY Plane

Phi = 90.00 degrees (Gain in dB)
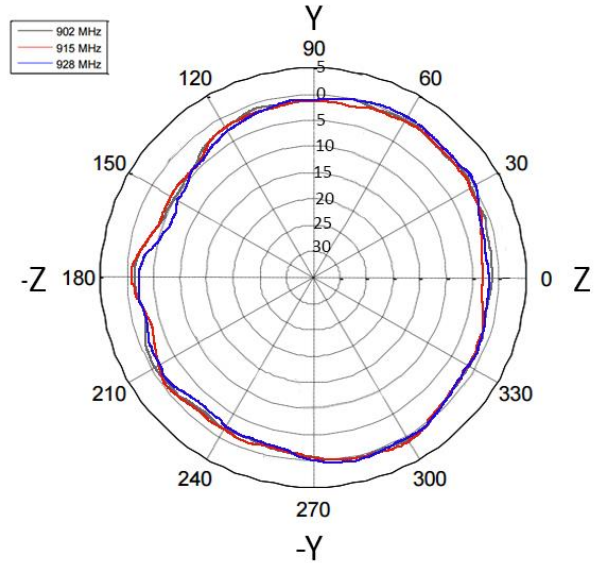
XY Plane

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.

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

5

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610

REVISION HISTORY

Version	Date	Notes	Approver
1.0	TBD	Initial Release	Jonathan Kaye

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

6

© Copyright 2016 Laird. All Rights Reserved

Americas: +1-800-492-2320
Europe: +44-1628-858-940
Hong Kong: +852 2923 0610