

HyperLink Wireless Low PIM DAS 2x2 MIMO Ceiling Antenna Model: HG72706DPCUPR-NF

Applications

- DAS (Distributed Antenna Systems)
- 700 MHz and cellular applications
- AWS (Advanced wireless services) and PCS (Personal communications service) band applications
- In-building wireless networks and LTE networks
- IEEE 802.11b/g/n applications

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- Low Passive InterModulation (PIM) rated
- Antenna can receive both vertical and horizontal polarized signals
- Attractive low profile radome design
- Easily mounts to ceiling tiles



Description

The HyperLink HG72706DPCUPR-NF is a low PIM high performance MIMO ceiling mount antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems) which are used to distribute Cellular and WiFi signals throughout a building or area. The wide band design of this antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of in-building wireless applications where wide coverage is desired.

The HG72706DPCUPR-NF features linear radiators, which means the antenna can receive both vertical and horizontal signals. This provides better overall wireless performance since it can receive signals from a wider array of devices in many different orientations. The HG72706DPCUPR-NF is a MIMO antenna. Two separate antenna leads are provided, each having the ability to receive both vertical and horizontal signals equally. This antenna is ideal for use with 1x2 and 2x2 MIMO access points and routers.

Low PIM Rated

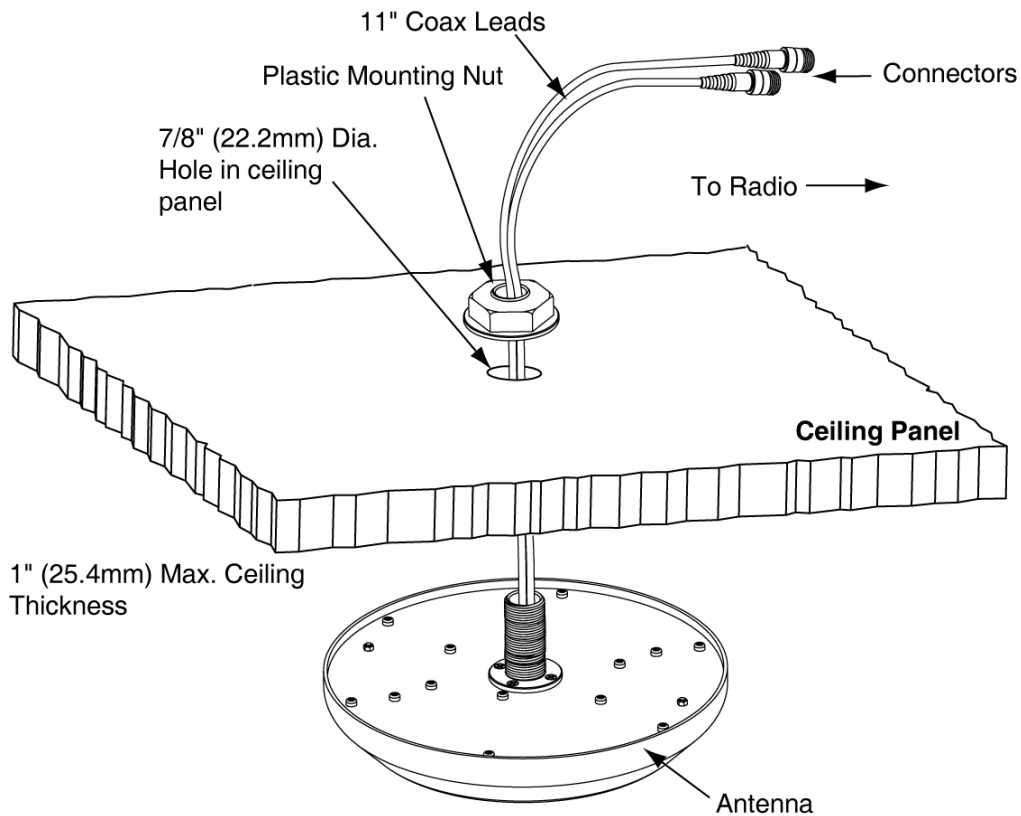
The key to providing the best performance in a DAS application is to ensure the components used are low PIM rated. This helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices. With a low PIM rating of <-150 dBc, the HG72706DPCUPR-NF helps meet the most demanding PIM requirements for LTE/4G bands.



The aesthetically pleasing low profile design of this antenna makes it ideal for use in almost any indoor environment. It can be easily mounted through a single 11/16" hole in a solid or suspended ceiling up to 1" thick. This antenna features a 13.7 inch coax lead terminated with an N-Female connector. Special order connectors are also available.



Mounting Details



Specifications

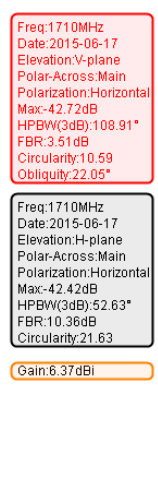
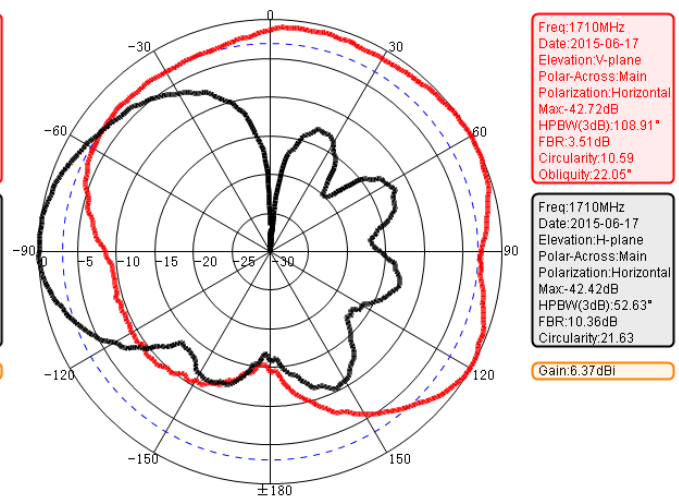
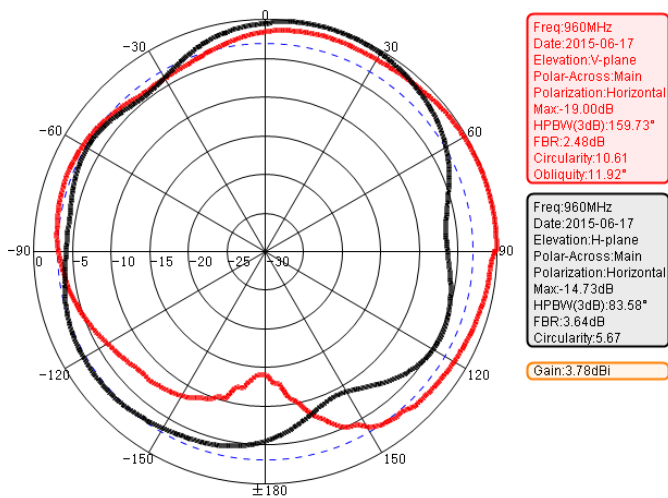
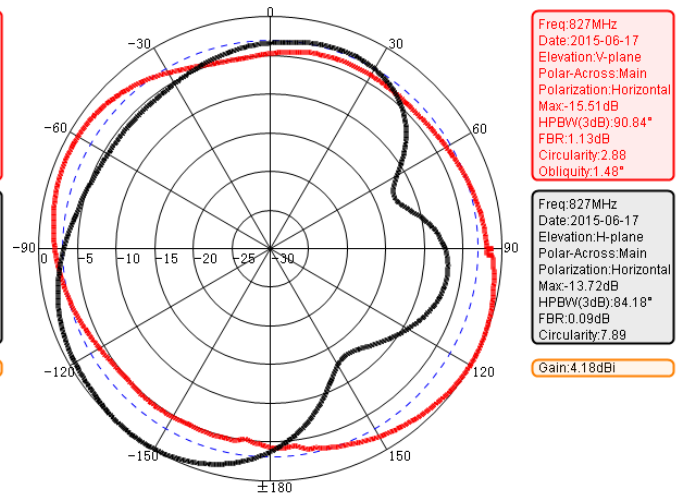
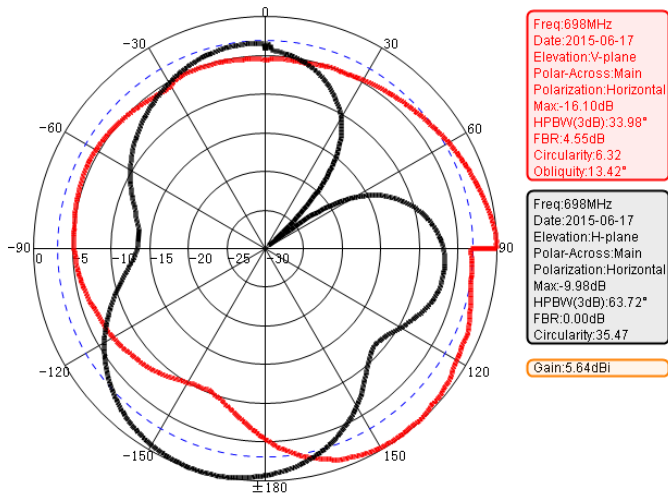
Electrical Specifications

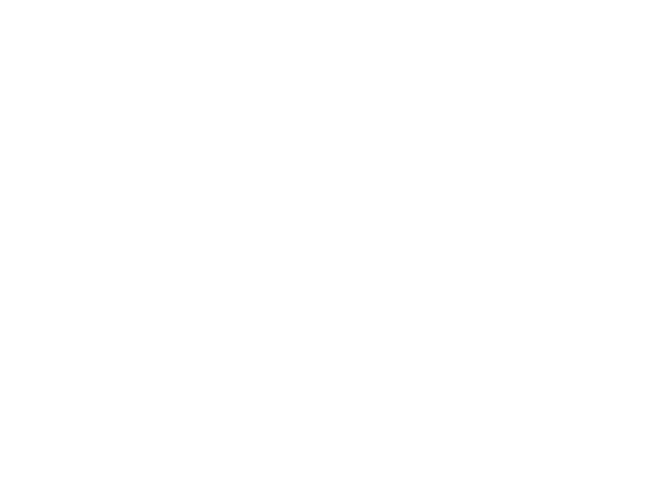
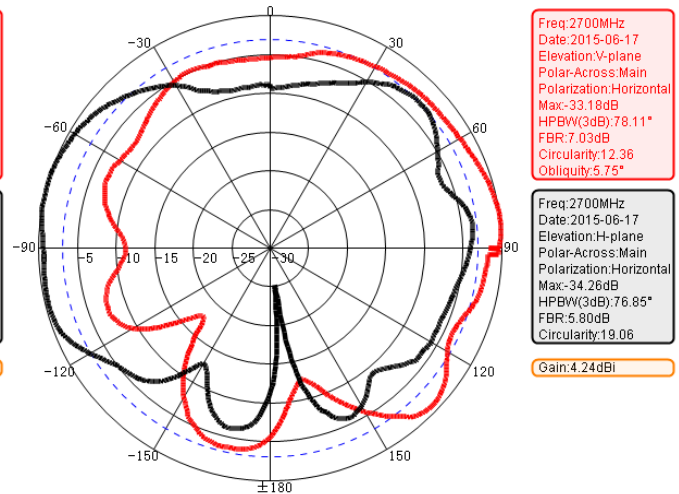
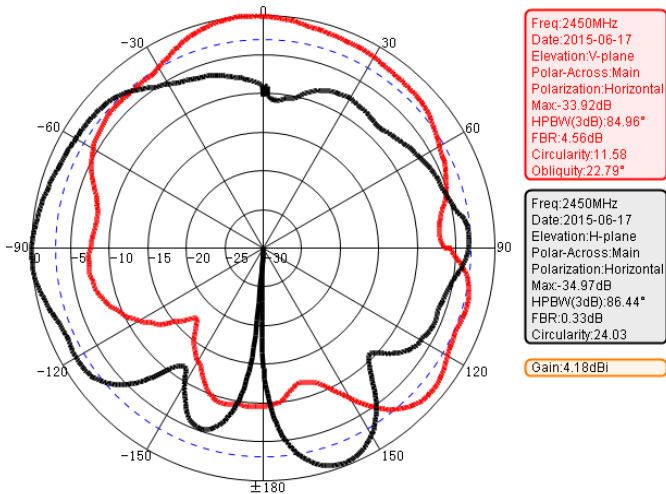
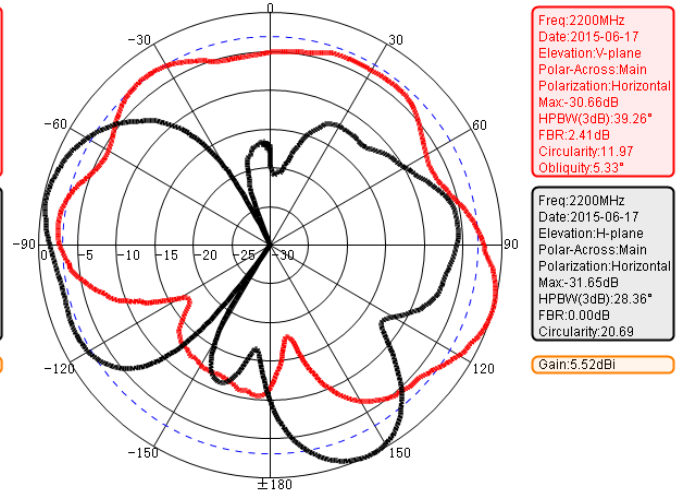
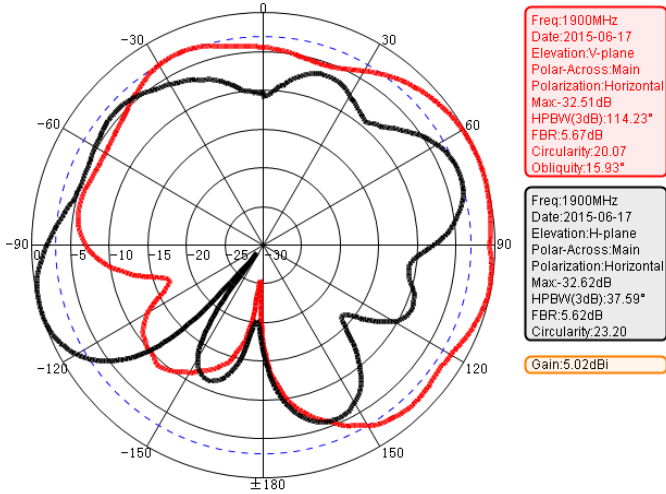
Frequency Range	698-960 MHz
	1710-2700 MHz
Gain (Typ)	3.5 dBi @ 700 MHz
	3.5 dBi @ 850 MHz
	3.2 dBi @ 900 MHz
	6.0 dBi @ 1800 MHz
	4.8 dBi @ 1900 MHz
	4.6 dBi @ 2100 MHz
	6.1 dBi @ 2300 MHz
5.8 dBi @ 2600 MHz	
Polarization	Linear Horizontal/Vertical for each Radiator
Horizontal Beamwidth	360°
Vertical Beam Width (-3 dB)	80° @ 698-960 MHz
	50° @ 1710-2700 MHz
Impedance	50 Ohm
Max. Input Power	50 Watts
VSWR (Typ)	< 1.8 @ 698-960 MHz
	< 1.6 @ 1710-2180 MHz
	< 1.5 @ 2180-2700 MHz
PIM, 3rd Order, 2 x 20 W (Max)	<-150 dBc

Mechanical Specifications

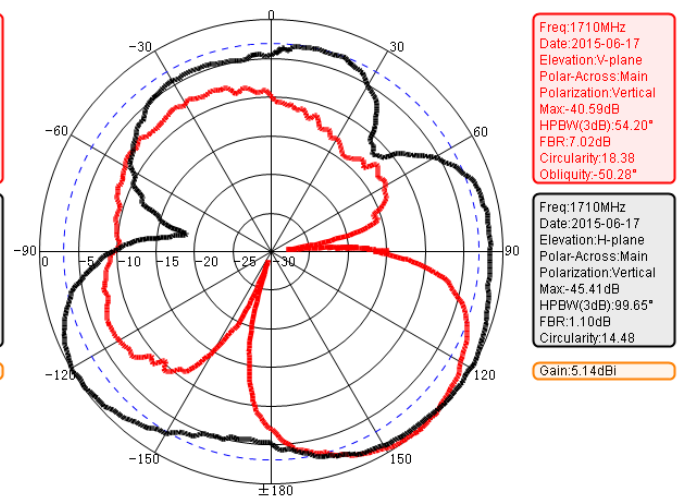
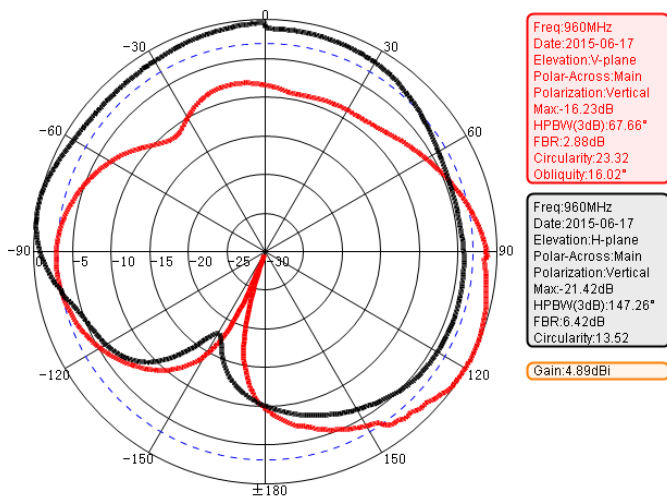
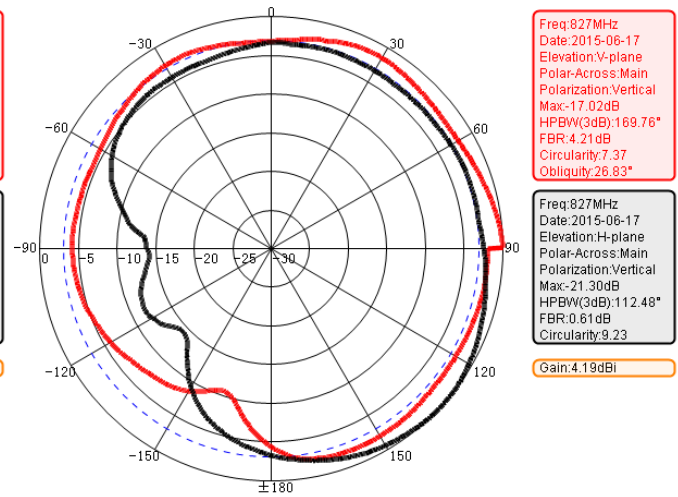
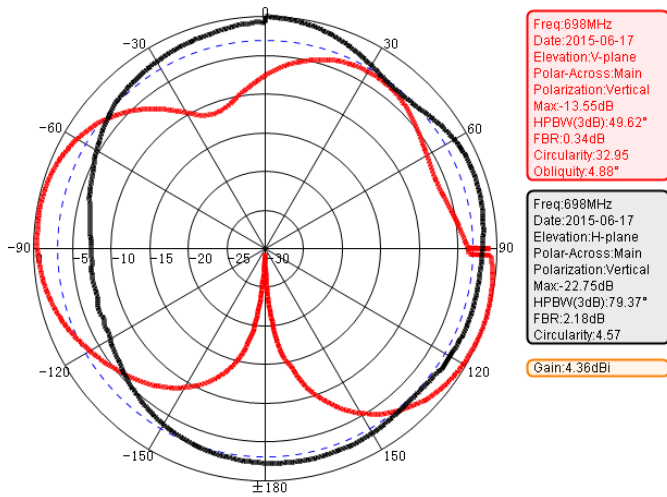
Cable Length	11 in. (280 mm) – Blue RG402 Series
Connectors	(2) N-Female
Weight	0.92 lbs. (0.42 Kg)
Dimensions	8.7 Dia. x 1.8 in. (220 Dia. x 45 mm)
Radome Material	UV Resistant ABS
Radome Color	White
Operating Temperature	-55° C to +85° C (-67° F to 185° F)
Mounting	.875" (22.2 mm) diameter hole
RoHS Compliant	Yes

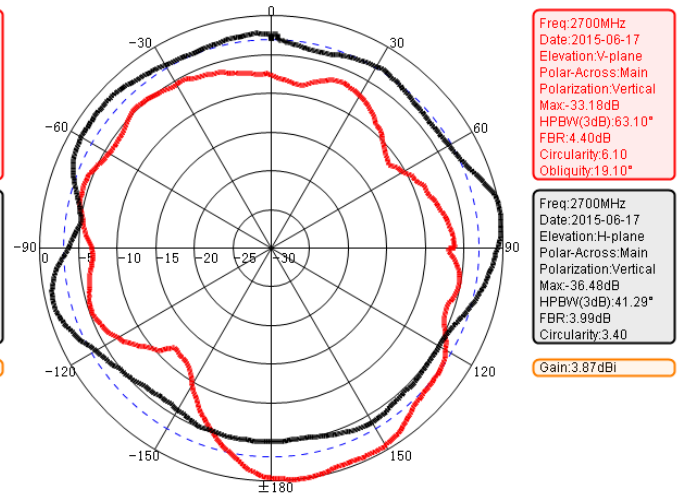
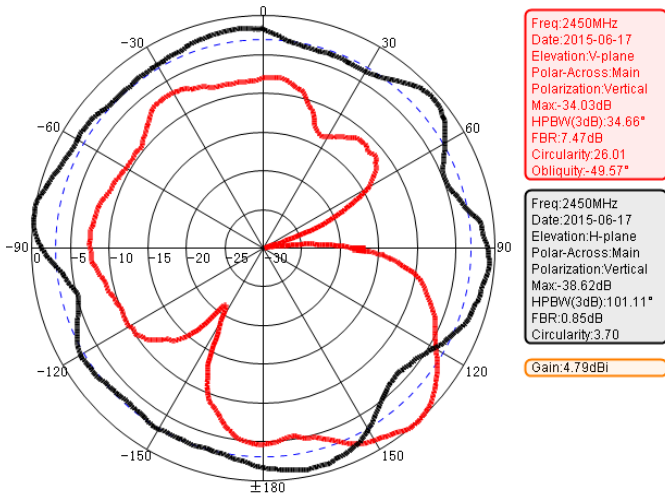
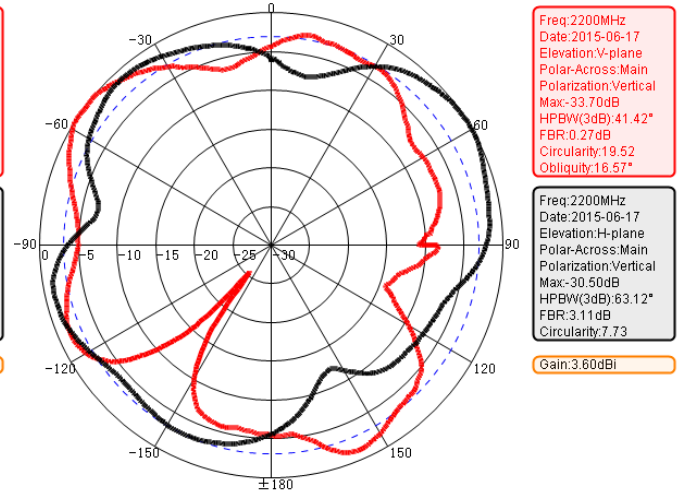
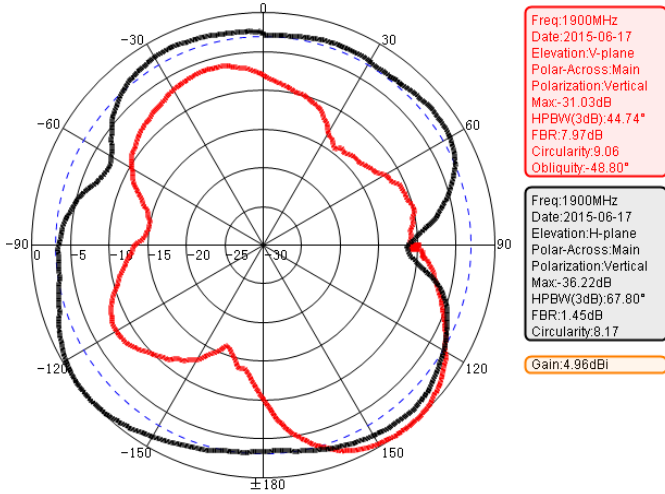
Antenna Gain Patterns – Port 1 Horizontal Polarization



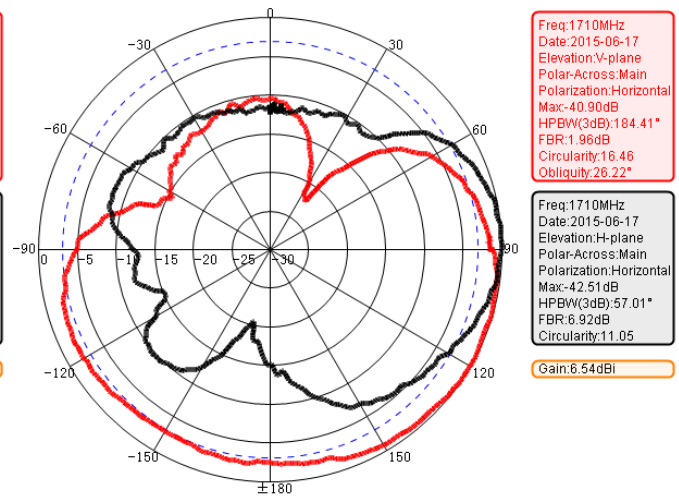
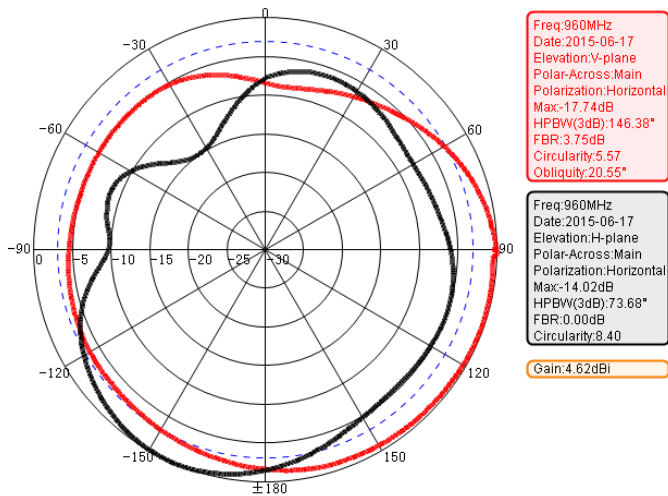
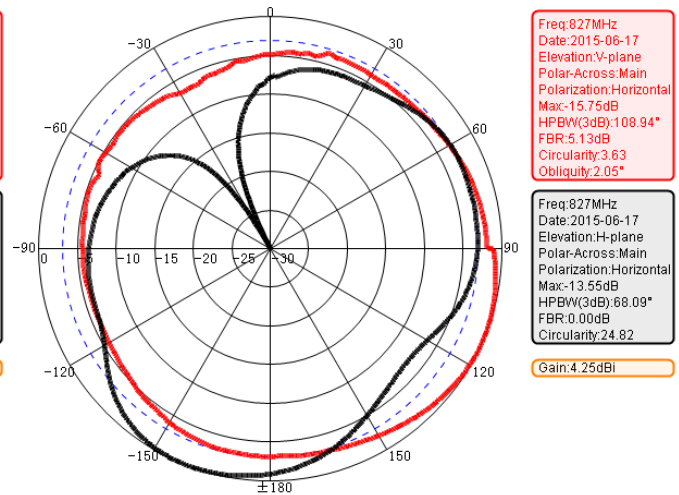
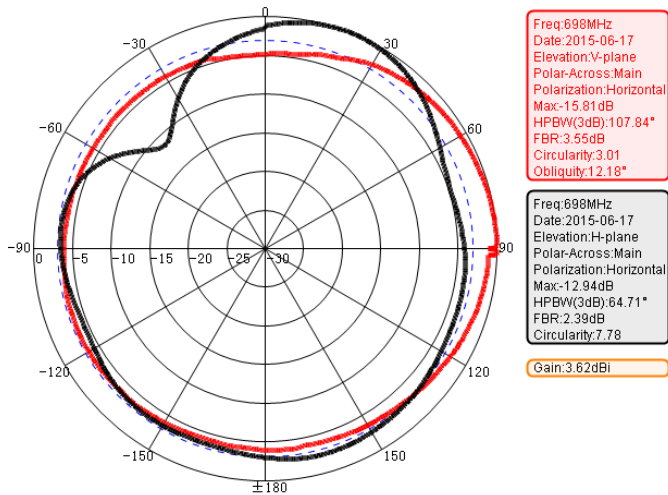


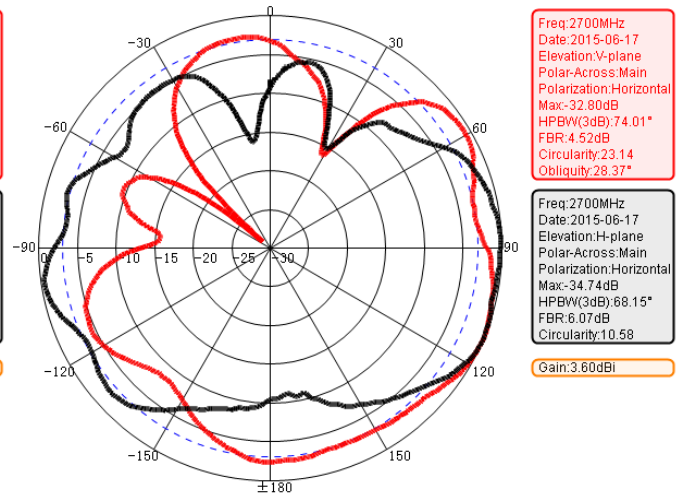
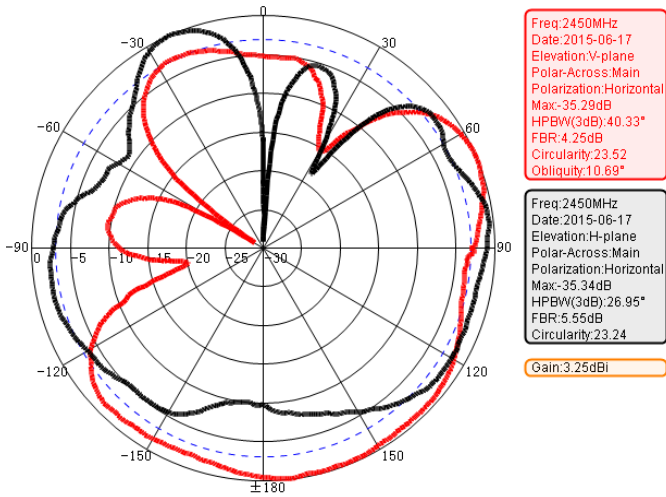
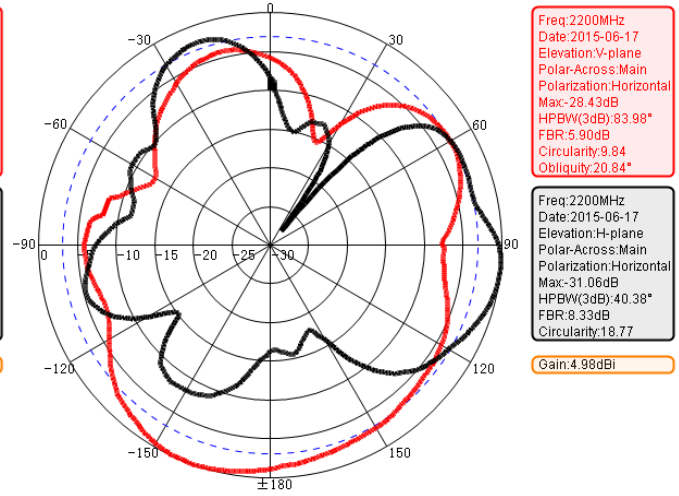
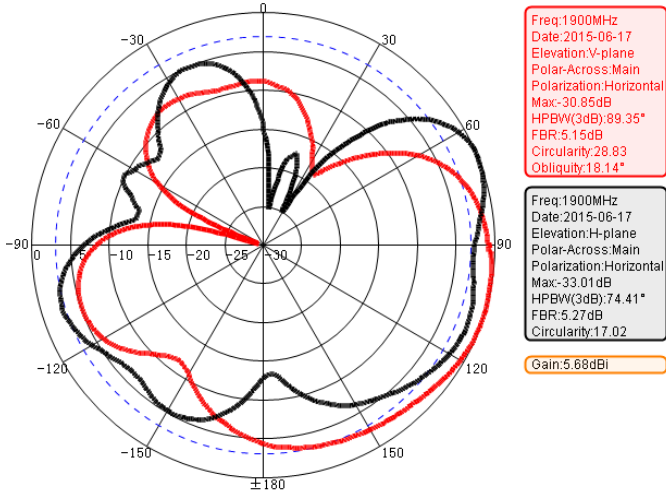
Antenna Gain Patterns – Port 1 Vertical





Antenna Gain Patterns – Port 2 Horizontal Polarization





Antenna Gain Patterns – Port 2 Vertical

