



Antennas Technical Data Sheet

ET12999

Features

- Four independent antennas, two vertical and two horizontal
- Narrow beamwidth for high density applications
- Applications
 - 2.4/4.9-5.8 GHz Indoor/Outdoor Wireless LAN
 - Supports IEEE 802.11 a/b/g/n and 802.11ac
 - Homeland Security and Public Safety Band

- MIMO Multiple-Input and Multiple-Output
- Dual polarity feed system in single enclosure
- Dual band, high gain operation
- Large stadiums, convention centers and city centers
- Business and educational campuses

Description

The HyperLink ET12999 High Density Flat Panel Antenna combines four dual band antennas in a single housing. The unit consists of two vertically and two horizontally polarized multi-patch antennas. It is a professional quality antenna designed primarily for MIMO point-to-multipoint and point-to-point applications in the 2.4 GHz and the 4.9-5.8 GHz frequency bands. The unit can be used with APs and Routers with one to four antenna ports.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radios to transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

By using a narrow more focused beamwidth, the ET12999 minimizes channel-to-channel interference which helps improve coverage and provides greater capacity. The narrow beamwidth of the ET12999 allows it to be precisely positioned directly where needed thus reducing RF interference. In addition, the high gain of the ET12999 allow for greater distance between the antenna and the users.

This aesthetically pleasing antenna features a heavy-duty UV-resistant plastic radome ideal for all-weather indoor and outdoor operation. The ET12999 antenna is supplied with a tilt and swivel mast mount kit. This allows quick installation at various degrees of up/down tilt for easy alignment.

Configuration

Panel Design Multi Band Type Radiation Pattern Directional Vertical/Horizontal Polarization Connector Type N Female Interface 2 N Female Interface 3 N Female N Female Interface 4 Number of Ports

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			2:1	
Impedance		50		Ohms
Gain		11		dBi
Front to Back Ratio		24		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4/4.9-5.8 GHz High Density 4-Element, Dual Polarized MIMO Flat Panel Antenna ET12999



2.4/4.9-5.8 GHz High Density 4-Element, Dual Polarized MIMO

Flat Panel Antenna



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Input Power	50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500	4,900-5,850				MHz
Gain	11	11				dBi
Horizontal Beam Width	42	25				Degees
Vertical Beam Width	45	43				Degees
Maximum Input Power	50					Watts

Mechanical Specifications

Radome Material	ASA
. 1010.0.0	

Size

Overall Length

Width

Height

12.4 in [314.96 mm]

12.4 in [314.96 mm]

1 in [25.4 mm]

Mounting Mast Diameter 0.75 to 2 in [19.05 to 50.80 mm]

Weight 3.5 lbs [1.59 kg]

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C
Wind Loading 130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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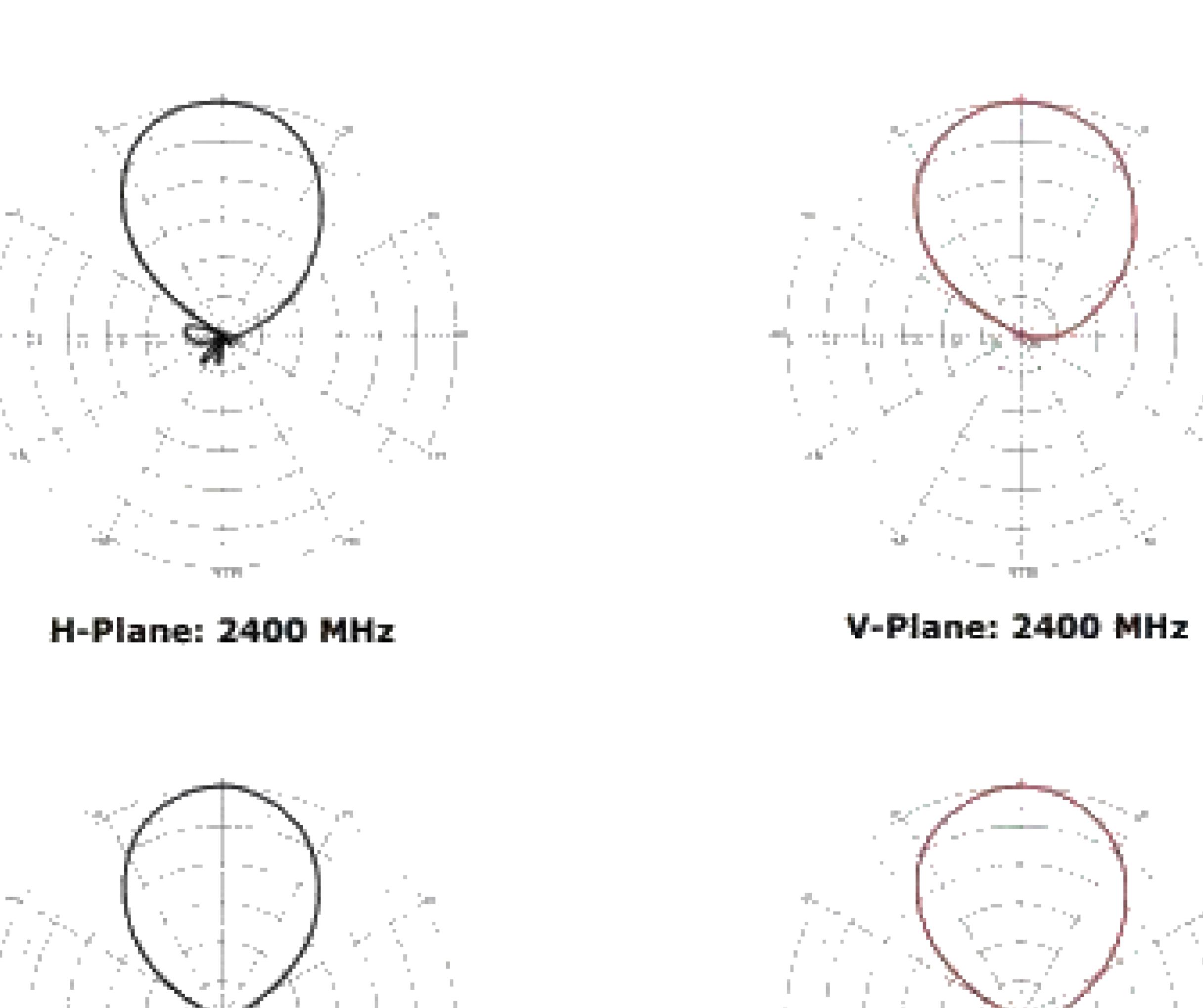


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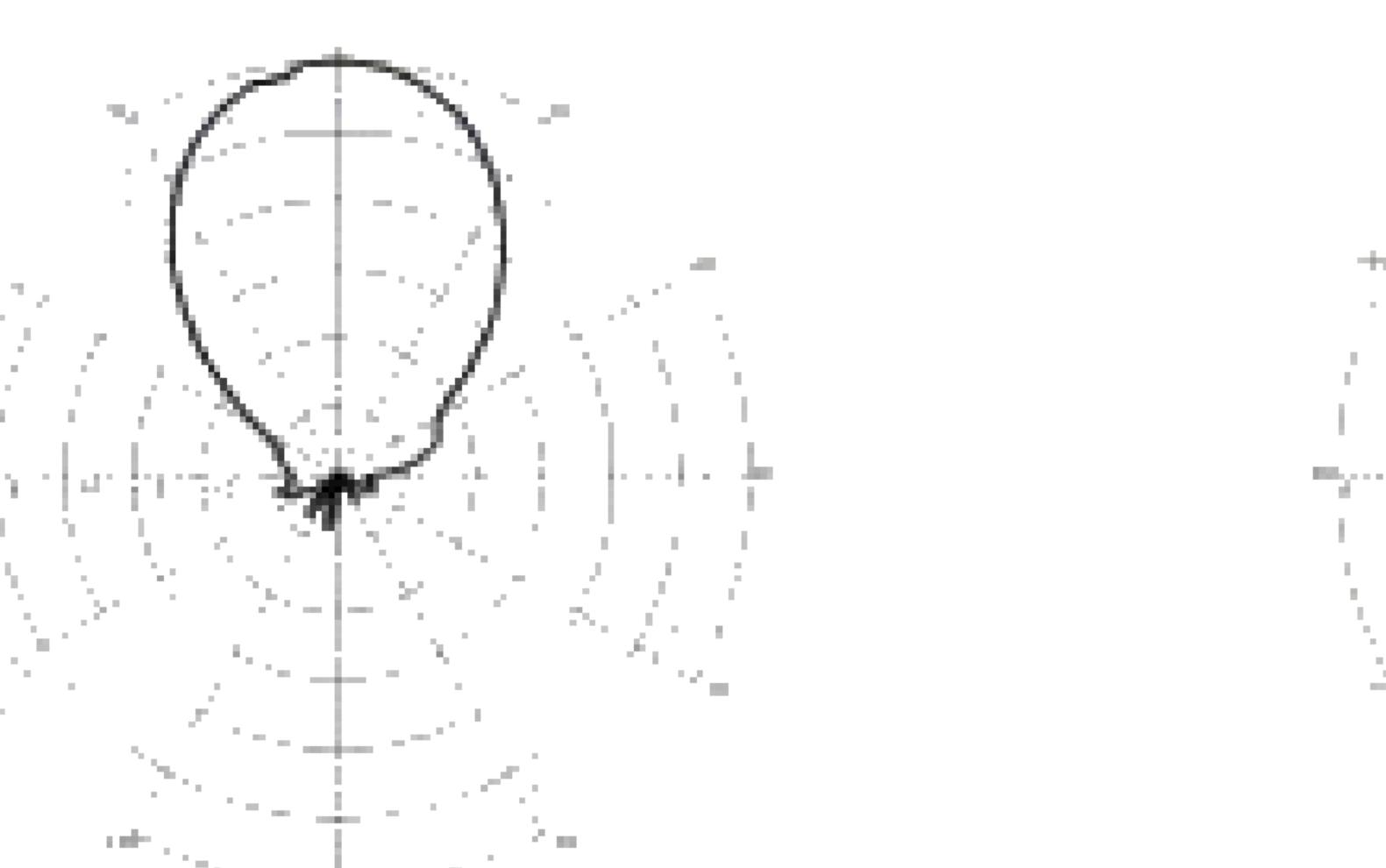
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Typical Radiation Pattern

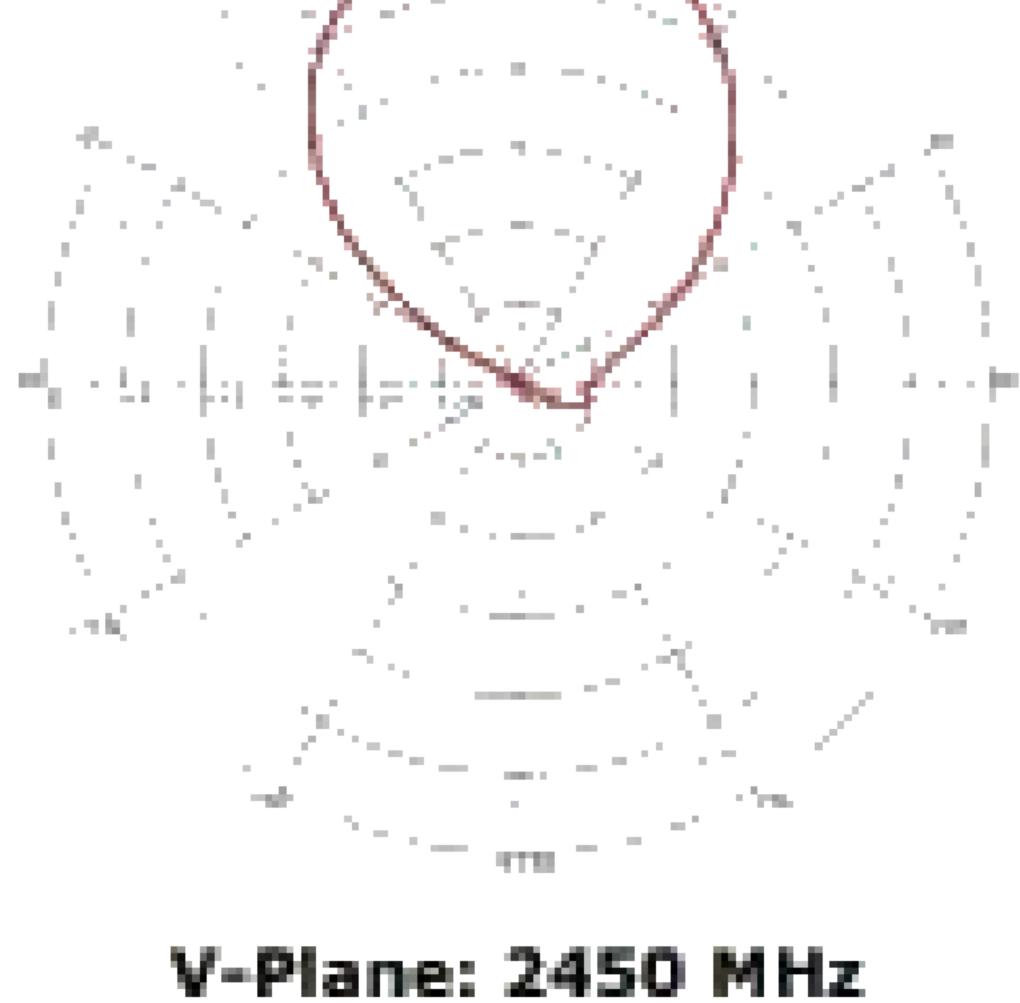
RF Antenna Patterns - H-Pol



H-Plane: 2450 MHz



H-Plane: 2500 MHz



V-Plane: 2500 MHz

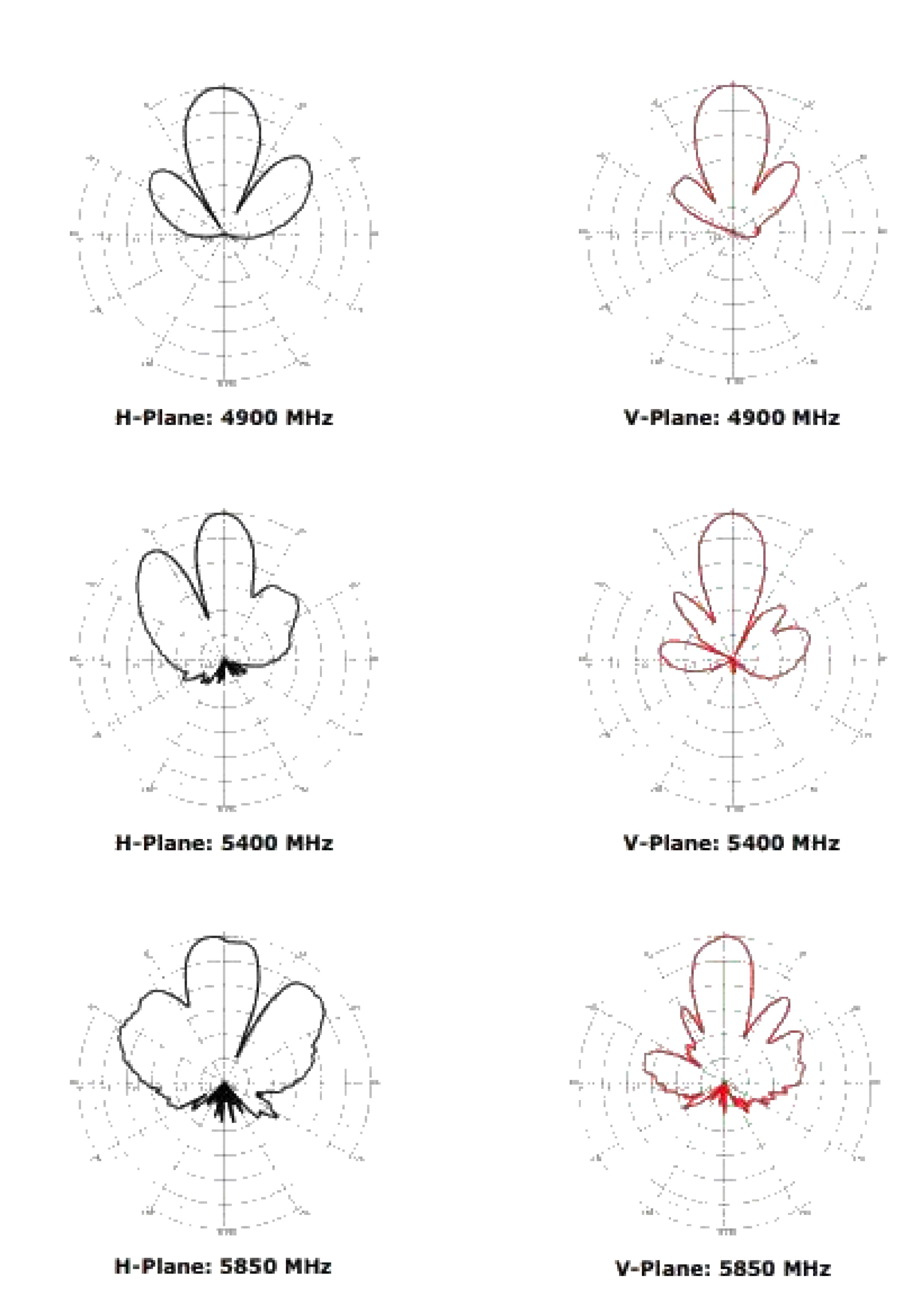
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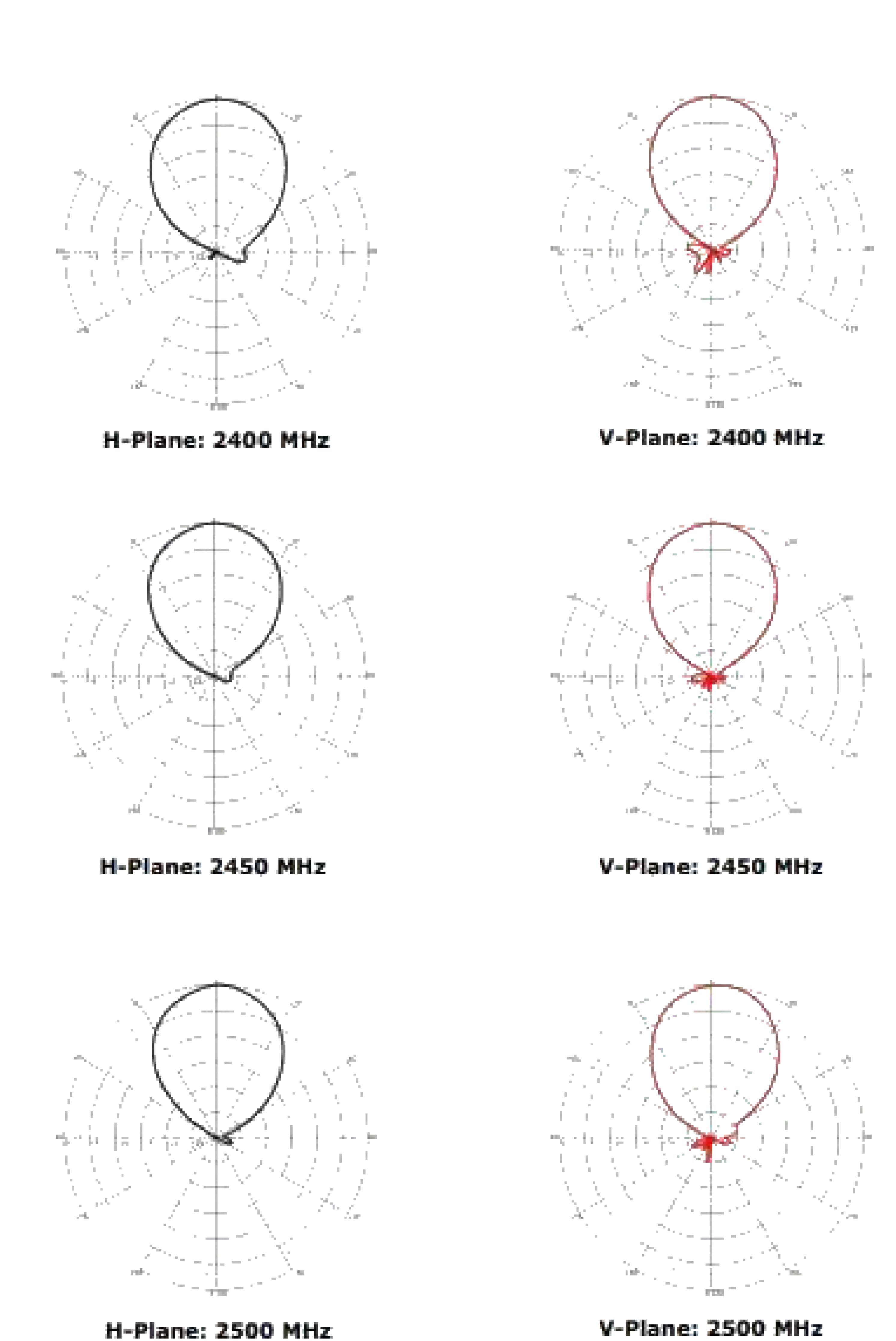




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RF Antenna Patterns - V-Pol



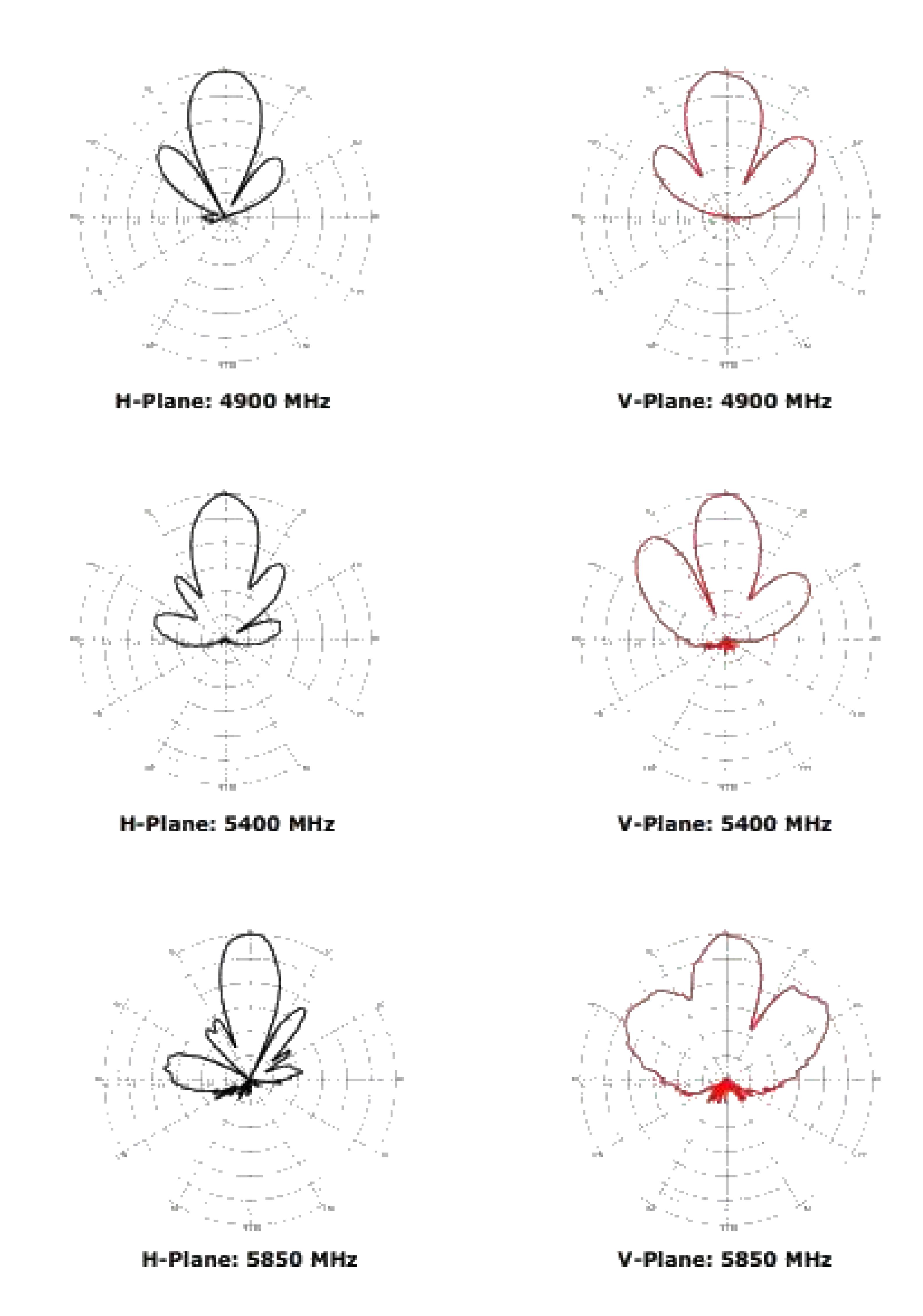
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
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2.4/4.9-5.8 GHz High Density 4-Element, Dual Polarized MIMO Flat Panel Antenna from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.ebeestock.com/2-4-4-9-5-8-ghz-high-density-4-element-dual-polarized-mimo-flat-panel-antenna-0012999

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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

00ZHK4K> HO D.W. J4> GKOT_B_HBG.