

Flat Panel Array Antenna

17-21 GHz



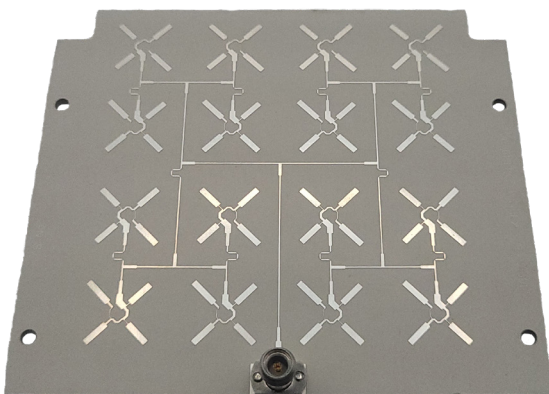
Product Datasheet

PAN-8498-64-K

K-band Fixed Beam Flat Panel Antenna 17-21 GHz.

Overview

The PAN-8498-64-K passive flat panel technology developed by ReliaSat is a high-performance solution for modern communication systems. It can be used for satellite communications as well as 5G systems. Offering a small profile and flat geometry, this technology enables wide operational bandwidth, good polarization purity and high gain in accordance with customer needs.



Features

- 17-21 GHz frequency range
- 19 GHz center frequency
- Polarization LHCP or RHCP
- Fits cubesats



Applications

- Satellite communications
- Ground - satellite - ground communications
- 5G
- High data rate throughput system
- Fixed Beam

Available With The Following Connectors

Connector Type	Polarization
Edge mount connector	LHCP
Vertical connector	LHCP
Edge mount connector	RHCP
Vertical connector	RHCP

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17-21 GHz



Product Datasheet

FPA Specification

Parameter	Value	Unit
Frequency Band	17-21	GHz
VSWR	<1.65	
Peak Gain	>20	dB
Half-Power Beamwidth (HPBW)	9 - 11	Degrees
Polarization	LHCP or RHCP	Preconfigurable
Axial Ratio	<3	dB
Power Handling	5	W
Connector	K (rear mounted)	
Mass	<50	grams
Dimension (Excl. Connector)	84 x 98	mm

CubeSat Configuration



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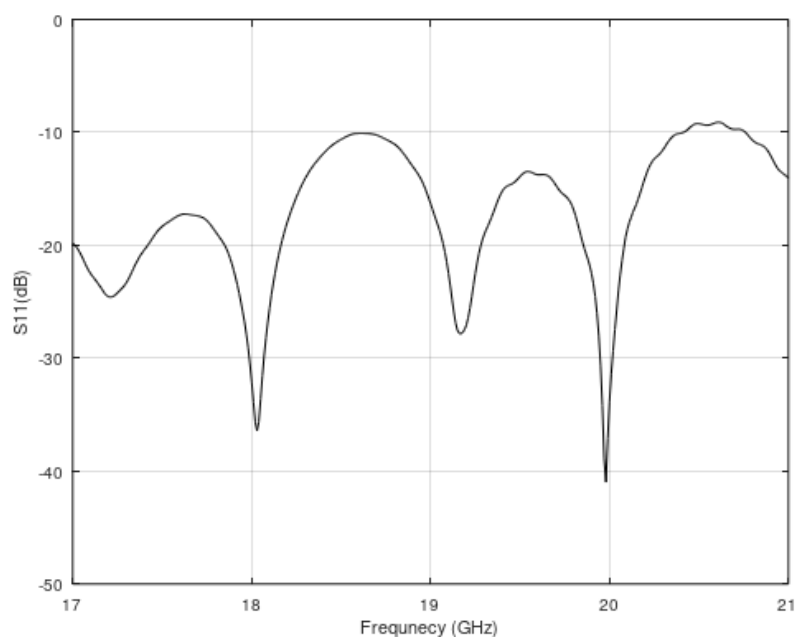
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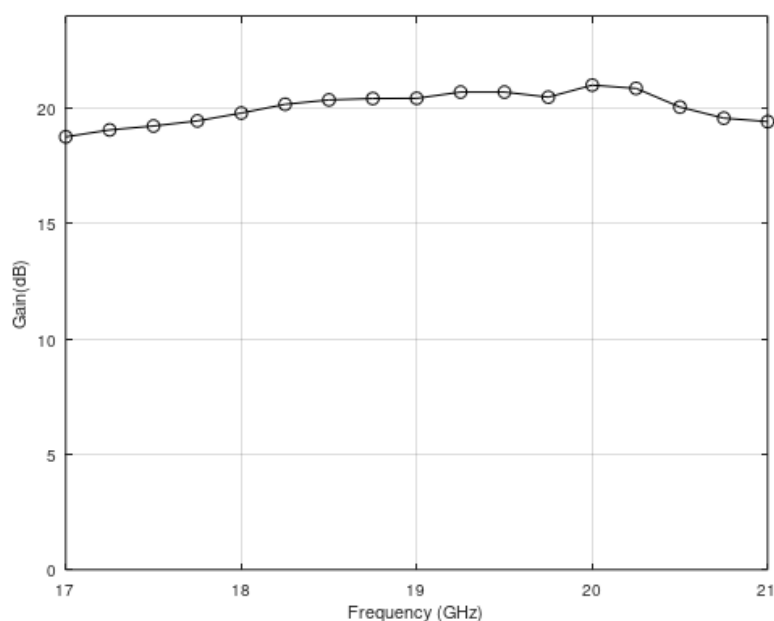
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Measurement Results

Return Loss



Gain



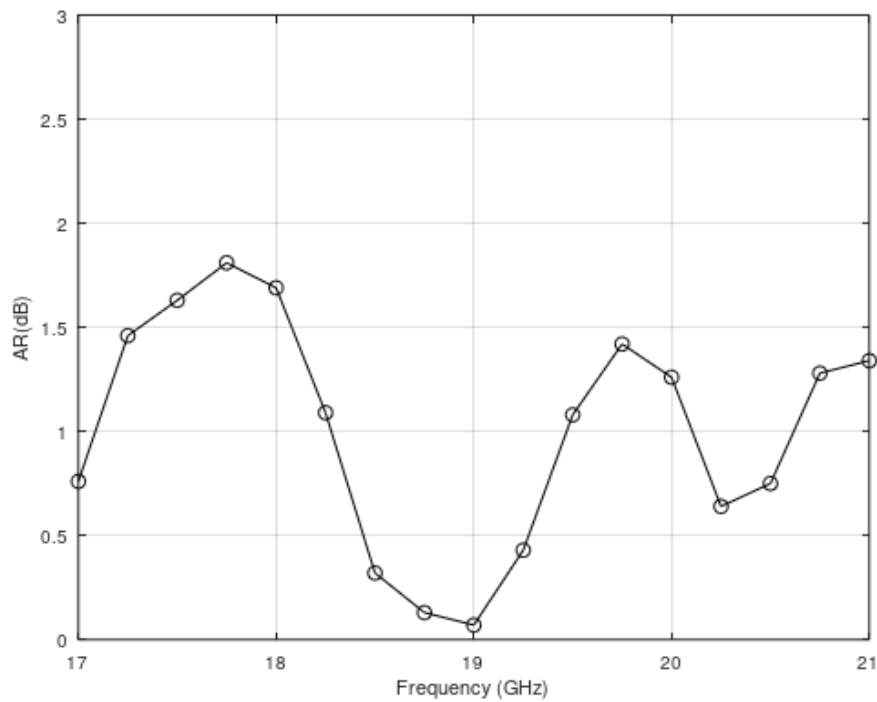
Flat Panel Array Antenna

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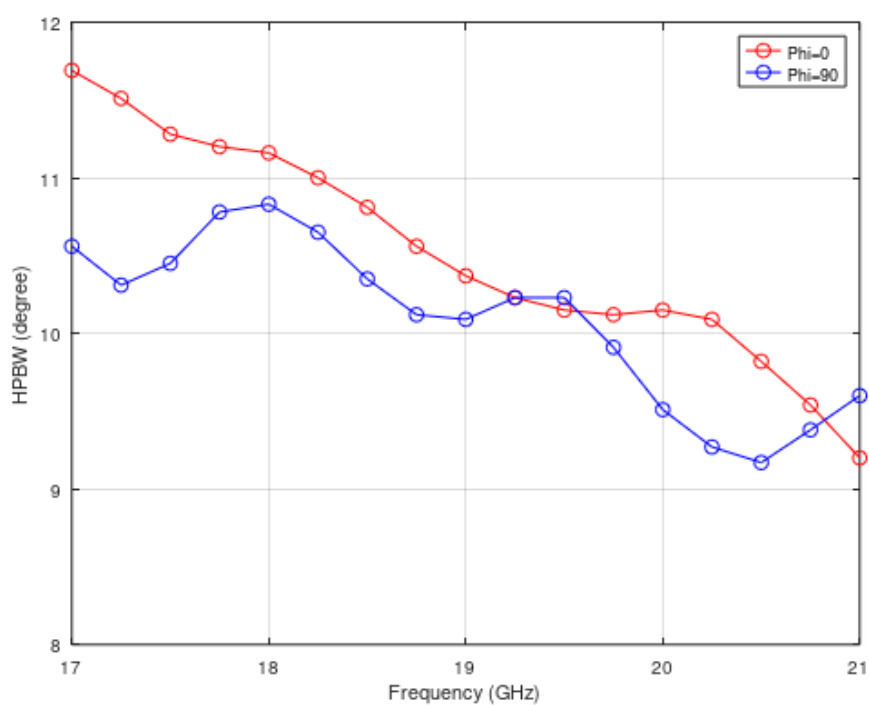


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AR (Axial Ratio)



HPBW (Half Power Beamwidth at $\Phi=0$ & $\Phi=90$)



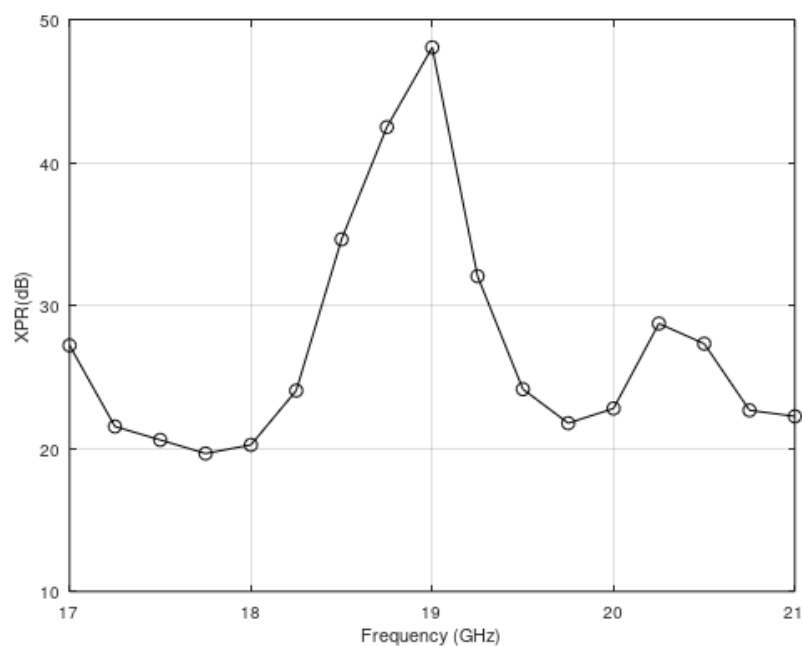
Flat Panel Array Antenna

17-21 GHz

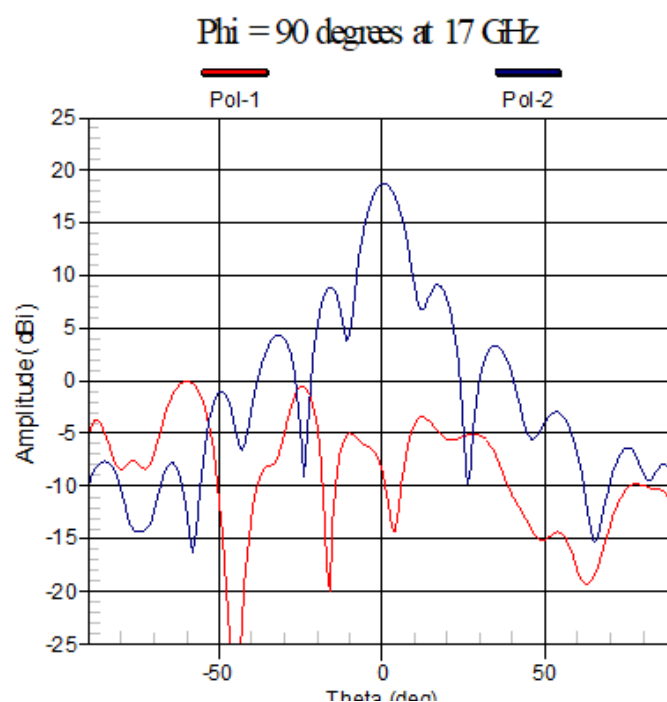
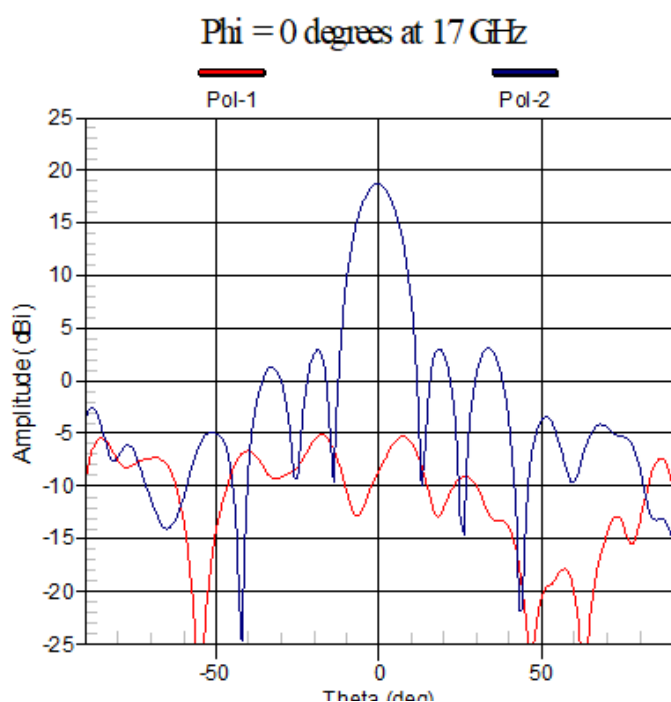


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XPR (Cross Polarization Ratio)



Radiation Pattern

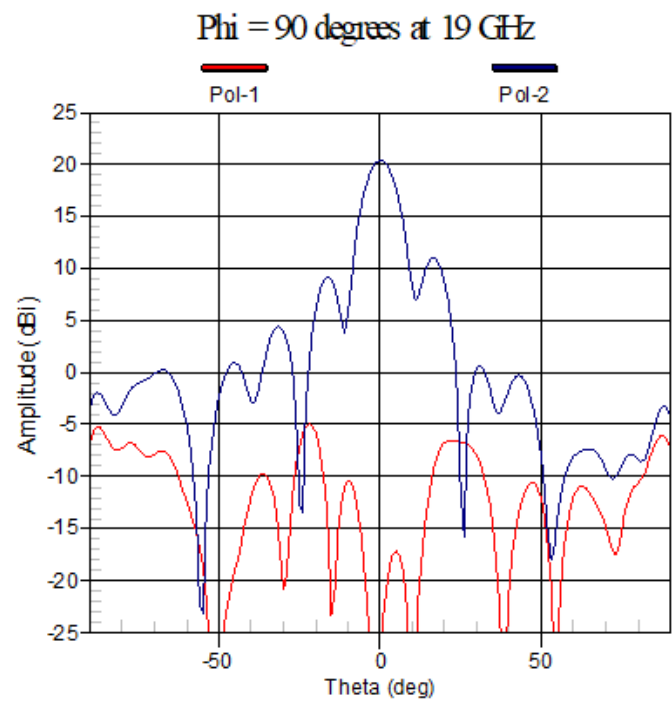
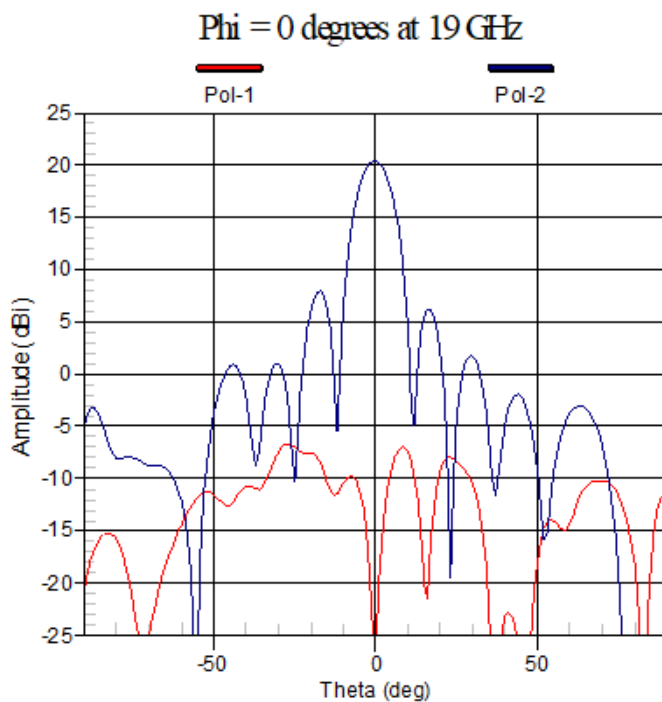
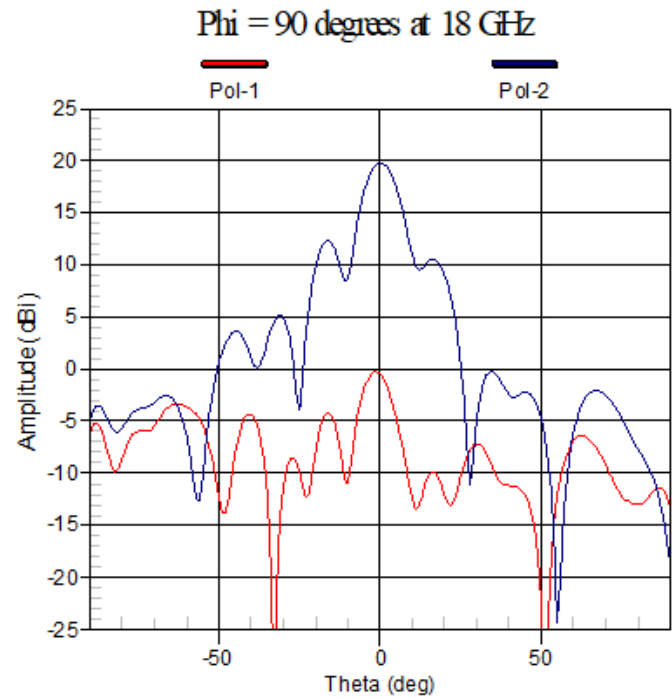
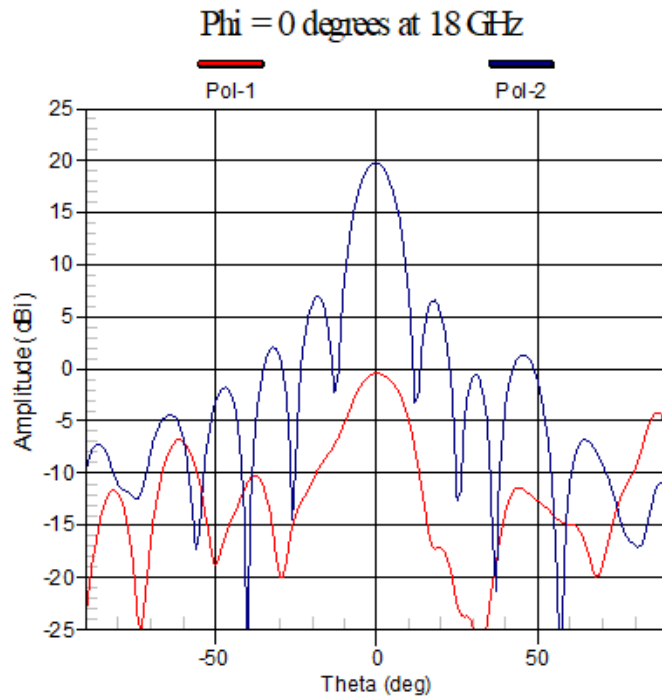


Flat Panel Array Antenna

17-21 GHz



Product Datasheet

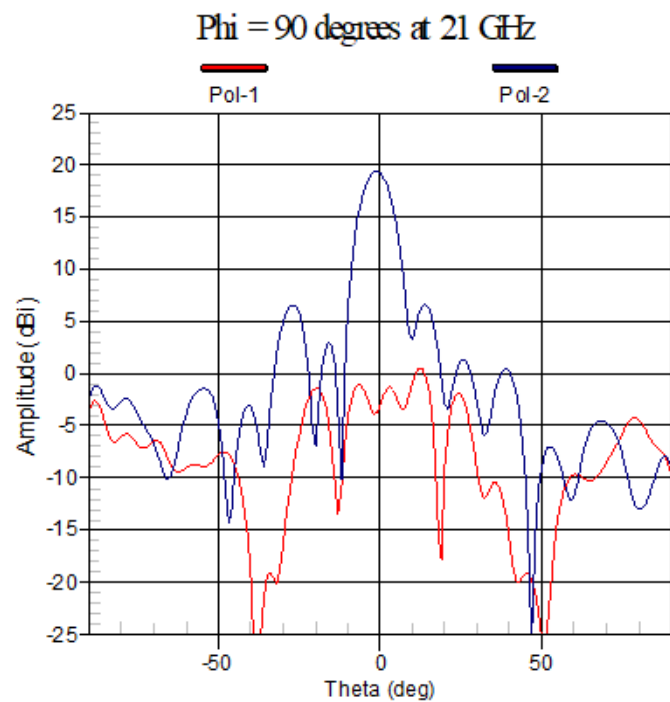
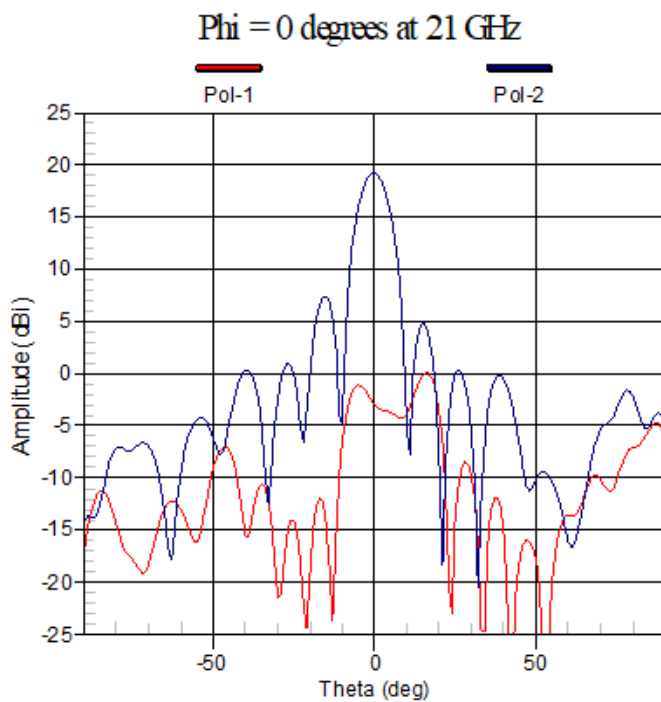
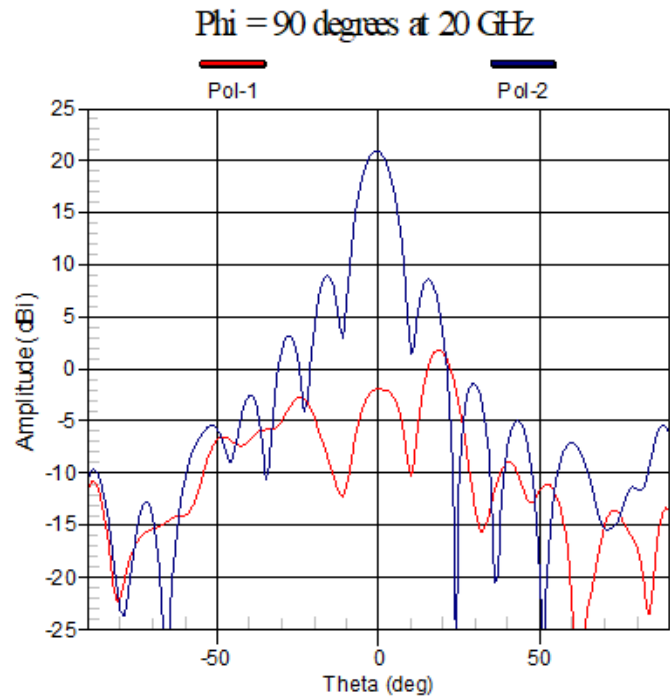
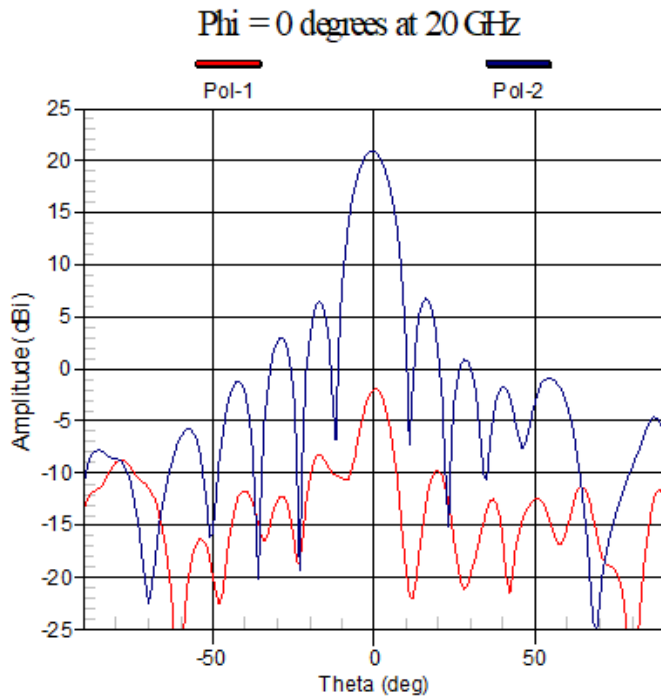


Flat Panel Array Antenna

17-21 GHz



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Contact Information

ReliaSat Offices

e: sales@reliasat.com