

Flat Panel Array Antenna

17-21 GHz



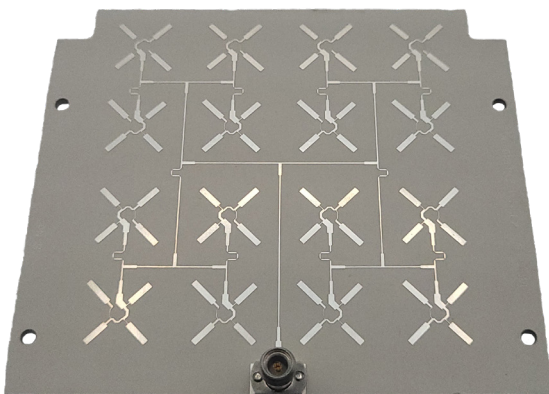
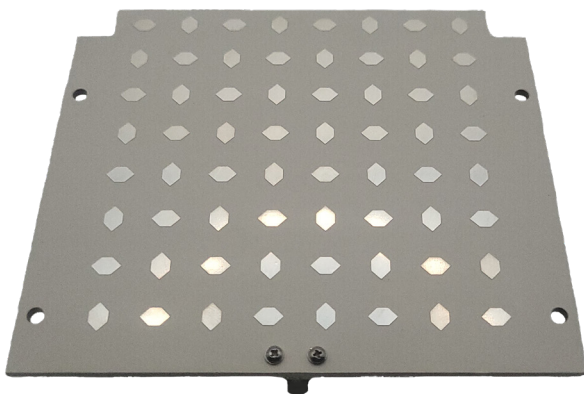
Product Datasheet

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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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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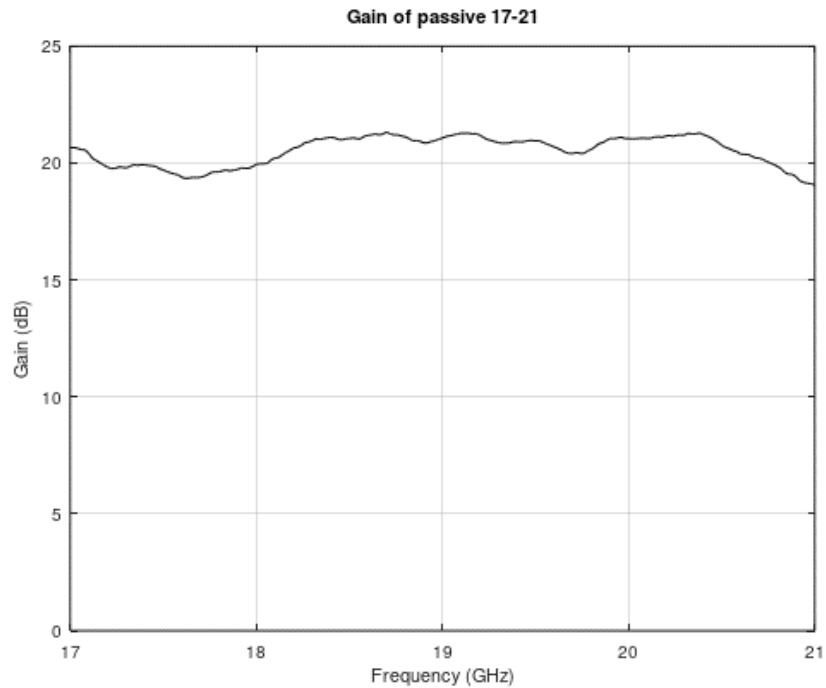
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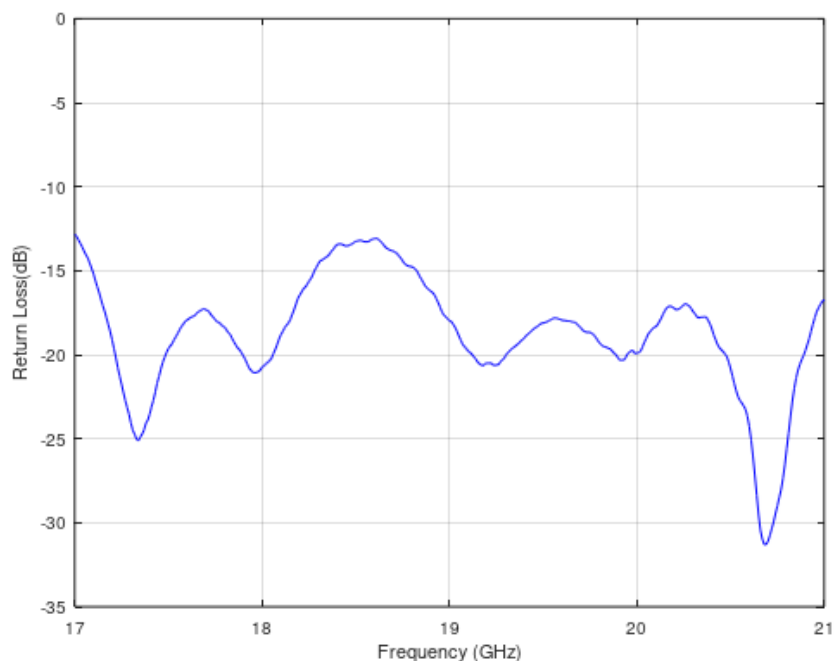
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Test Results

Gain



Return Loss



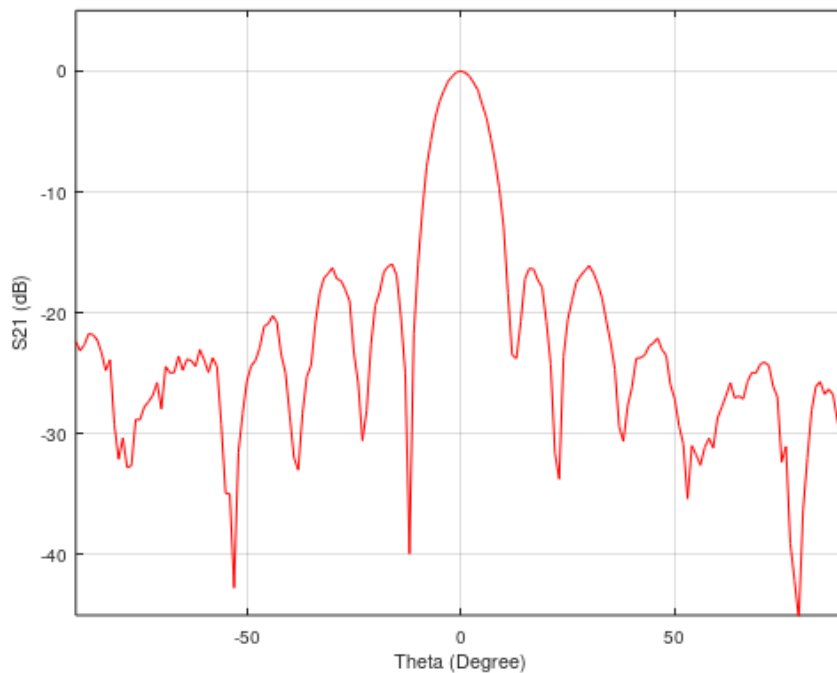
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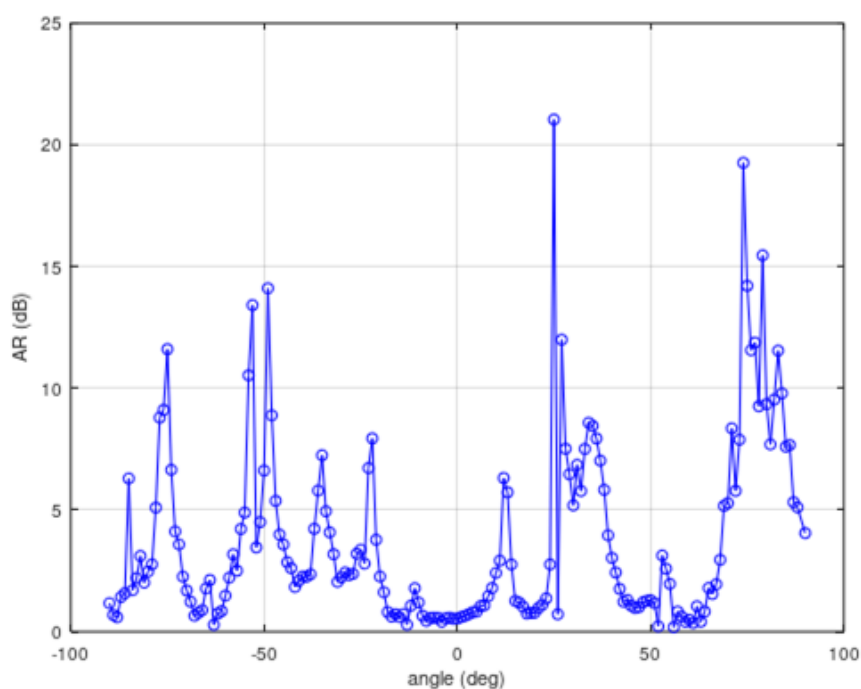


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Radiation Pattern at 19 GHz (Phi=0)



Axial Ratio at 19 GHz (Phi=0)

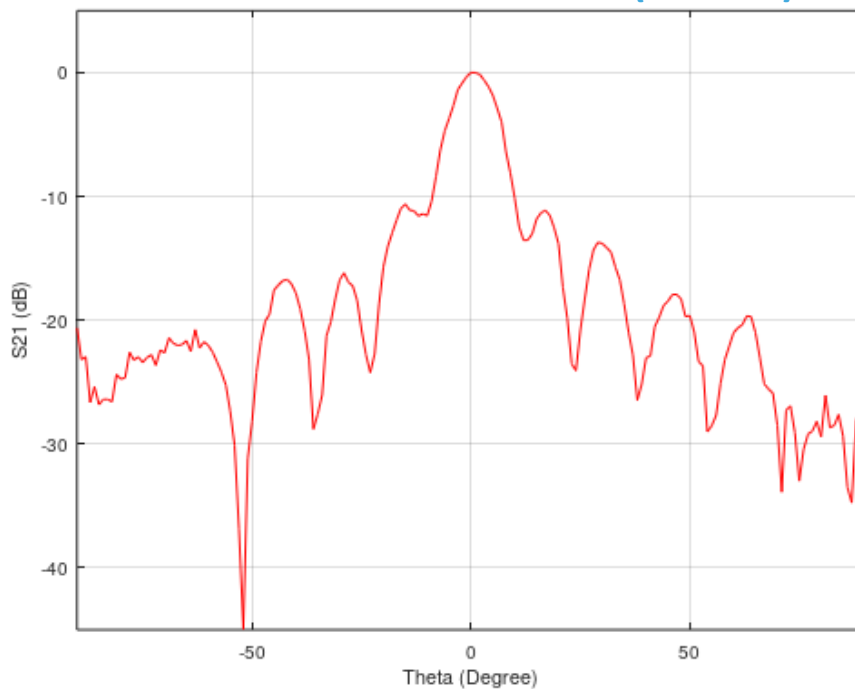


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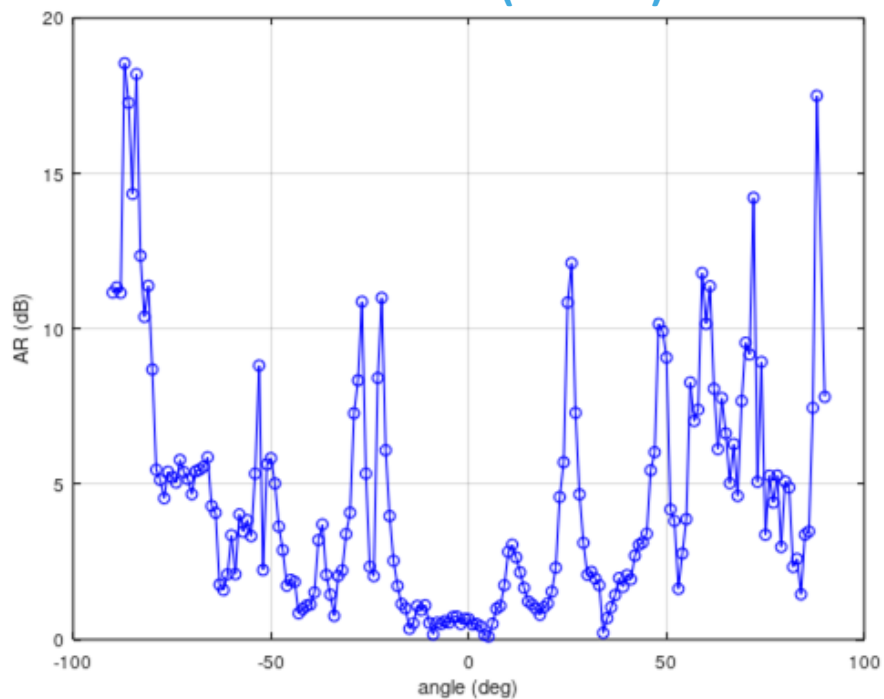


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Radiation Pattern at 19 GHz (Phi=90)



Axial Ratio at 19 GHz (Phi=90)



ReliaSat Offices

Contact Information

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