

# Flat Panel Array Antenna

## 27-31 GHz



Product Datasheet

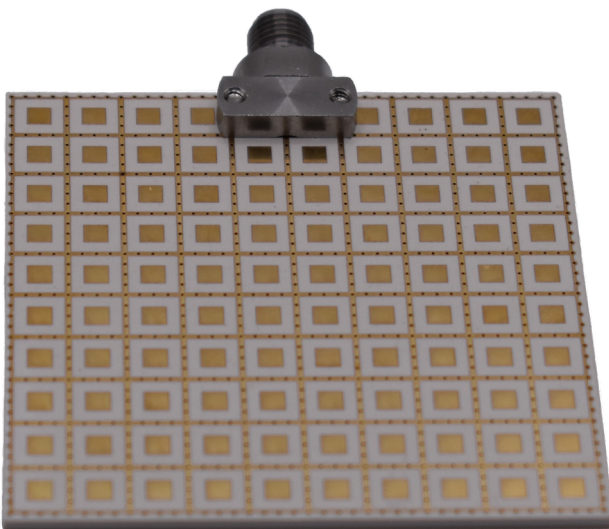
### PAN-5454-64-K6

Ka-band Flat Panel Array Antenna.

#### Overview

The PAN-5454-64-K6 flat panel technology developed by ReliaSat is a high-performance solution for modern communication systems.

It can be used for satellite and 5G communication systems, offering a high data rate throughput system. The antenna has a small profile and flat geometry, this technology enables wide operational bandwidth, good polarization purity and high gain in accordance with customer needs.



#### Features

- 27-31 GHz frequency range
- 29.25 GHz center frequency
- Polarization LHCP or RHCP
- Fits cubesats



#### Applications

- Satellite communications
- Ground - satellite - ground communications (circular polarization)\*
- 5G
- High data rate throughput system

#### Available With The Following Connector Types

Connector Type	Polarization
50 x 50 edge connector	LHCP
60 x 50 edge connector	LHCP
60 x 50 vertical connector	LHCP
50 x 50 edge connector	RHCP
60 x 50 edge connector	RHCP
60 x 50 vertical connector	RHCP

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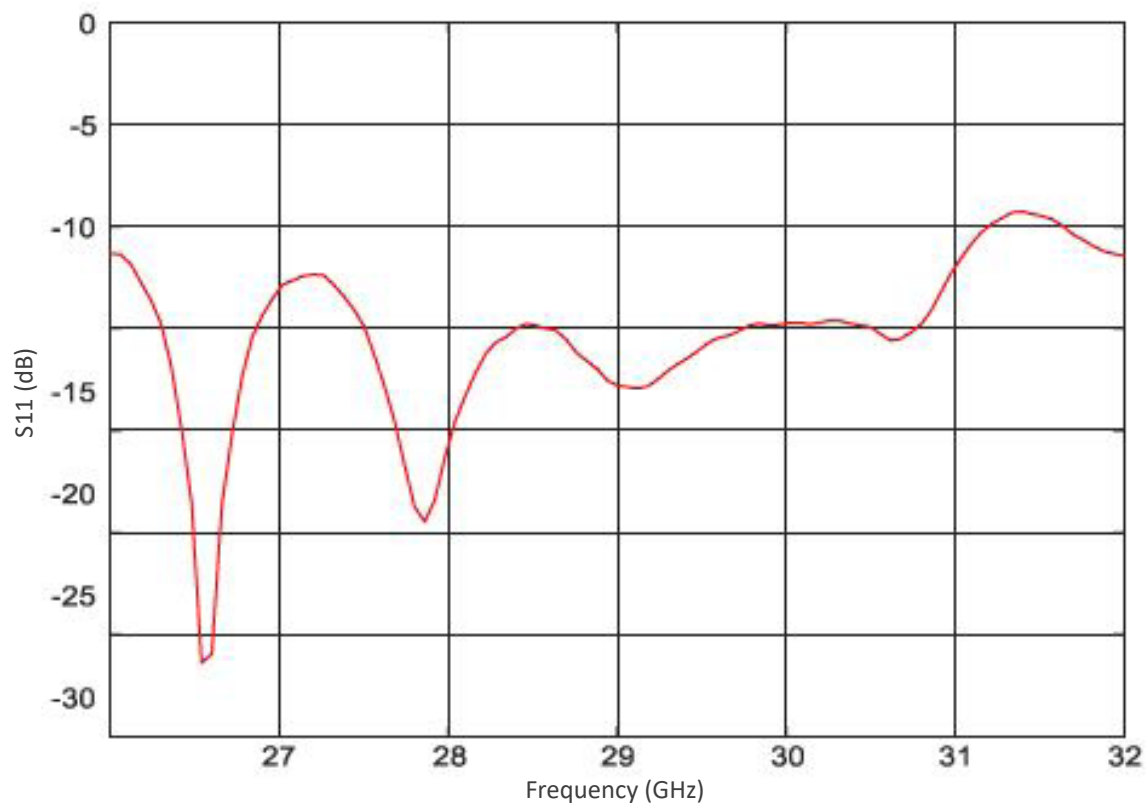


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### FPA Specification

Parameter	Value	Unit
Centre Frequency	29.25	GHz
Matching Frequency Range	27-31	GHz
3 dB Axial Ratio Bandwidth*	1.5	GHz
Polarization	LHCP or RHCP	
Gain	20	dBi
3 dB Beamwidth	13	Degree
Connector	K (rear mounted)	
Impedance	50	Ohm
Dimension	51 x 51	mm

### Matching Bandwidth



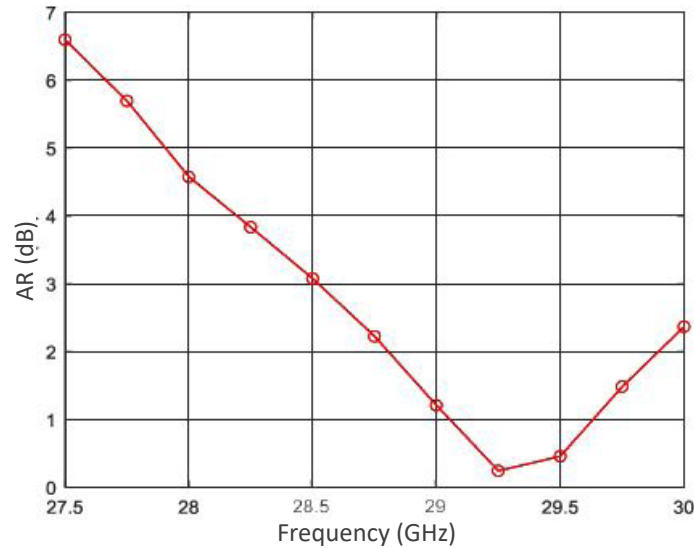
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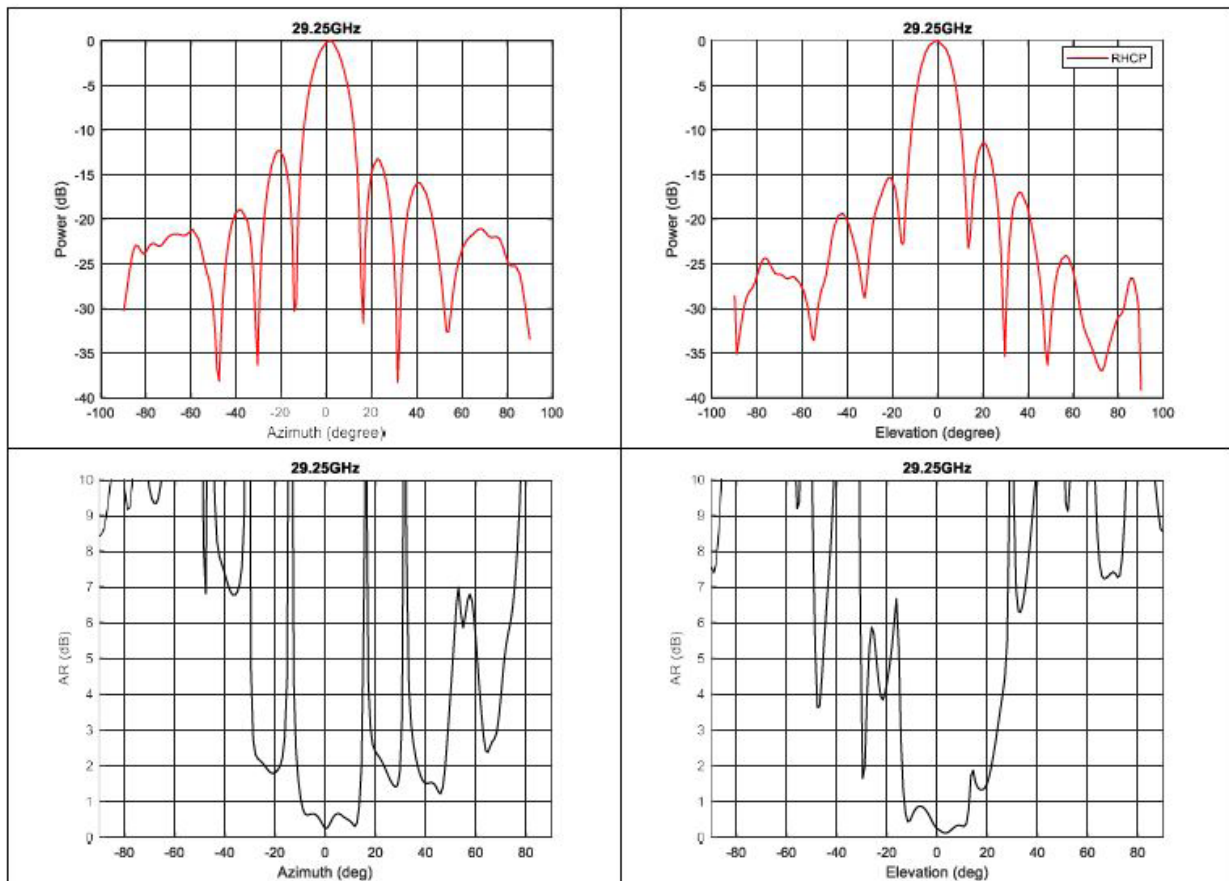


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### Axial Ratio vs Frequency



### Radiation Pattern

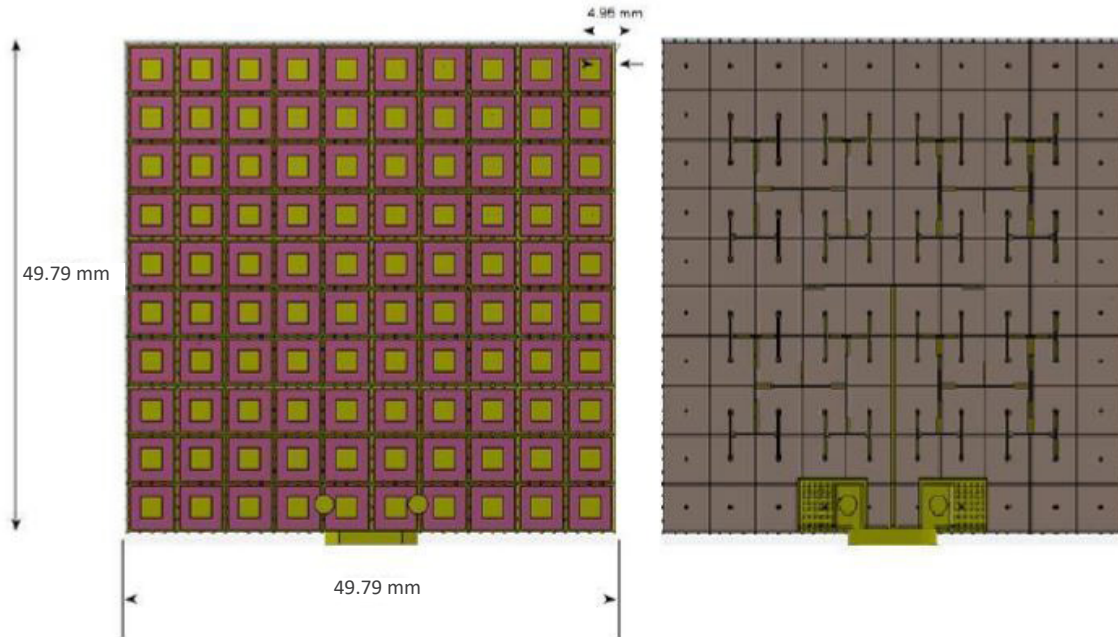


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## Board Layout



## Contact Information

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