

Product Datasheet

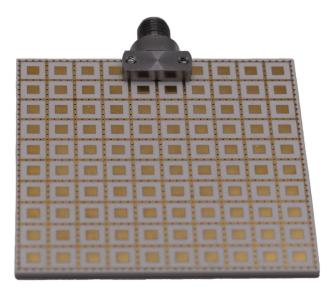
PAN-5151-64-KA

Ka-band Flat Panel Array Antenna.

Overview

The PAN-5151-64-KA 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. The board is composed of 6 layers.





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



- 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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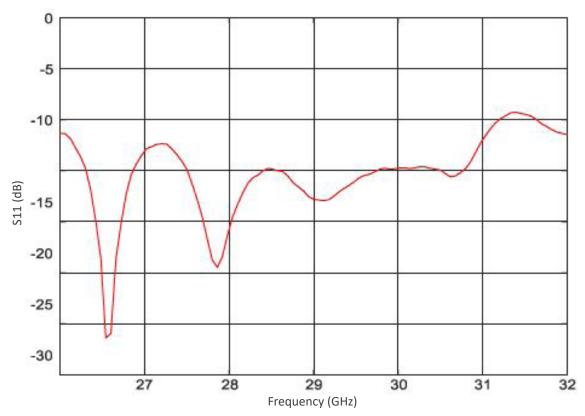


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FPA Specification

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	
Connector	K (rear mounted)	
Impedance	50 Ohm	
Dimension	51 x 51	mm

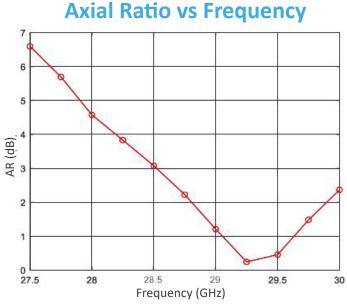
Matching Bandwidth



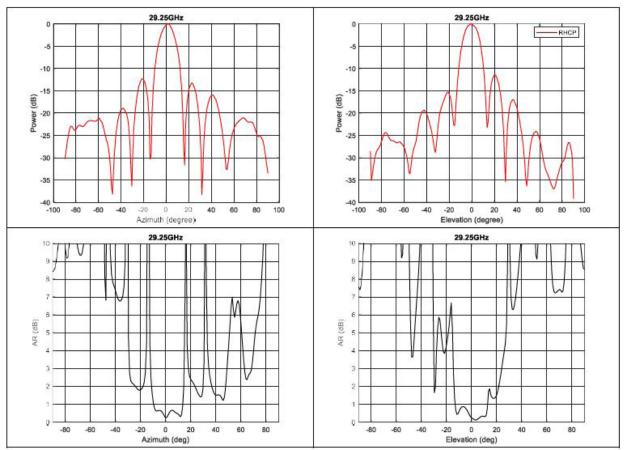
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Radiation Pattern

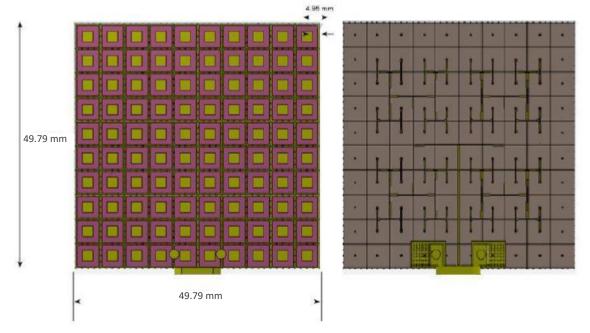


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Board Layout



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