

**Product Datasheet** 

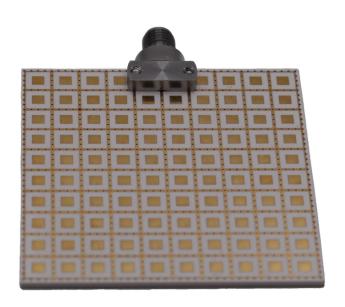
#### Ka-FPA-2730

Ka-band Flat Panel Array Antenna.

#### **Overview**

The Ka-FPA-2730 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.





- 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 Wi	th The Following Co	nnectors
Product Code	Connector Type	Polarization
Ka-FPA-2730- L5050EC	50 x 50 edge connector	LHCP
Ka-FPA-2730- L6050EC	60 x 50 edge connector	LHCP
Ka-FPA-2730- L6050VC	60 x 50 vertical connector	LHCP
Ka-FPA-2730- R5050EC	50 x 50 edge connector	RHCP
Ka-FPA-2730- R6050EC	60 x 50 edge connector	RHCP
Ka-FPA-2730- R6050VC	60 x 50 vertical connector	RHCP

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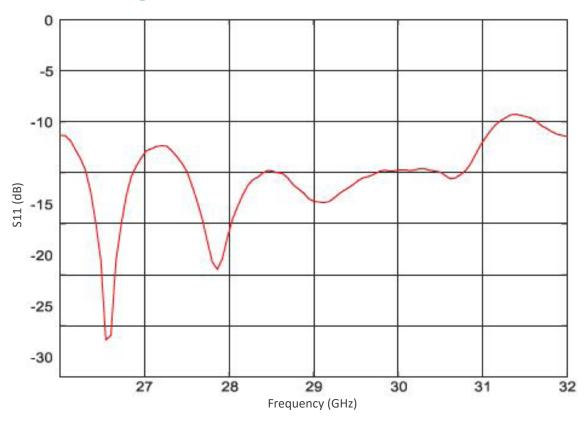


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### **FPA Specification**

Parameter	Value	Unit
Centre Frequency	29.25	GHz
Matching Frequency Range	27-31	GHz
3 dB Axial Ration 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**

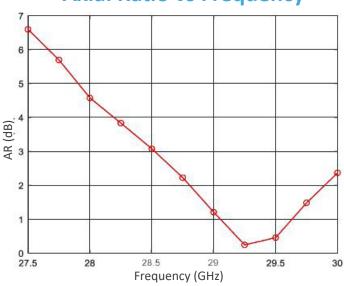


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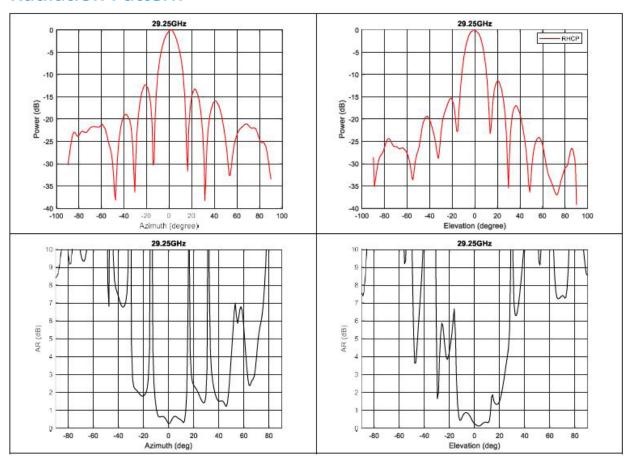


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### **Axial Ratio vs Frequency**



#### **Radiation Pattern**

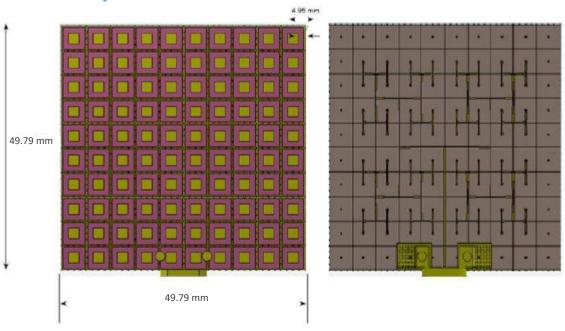


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**Product Datasheet** 

### **Board Layout**



#### **Contact Information**

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