

Flat Panel Array Antenna 27-31 GHz

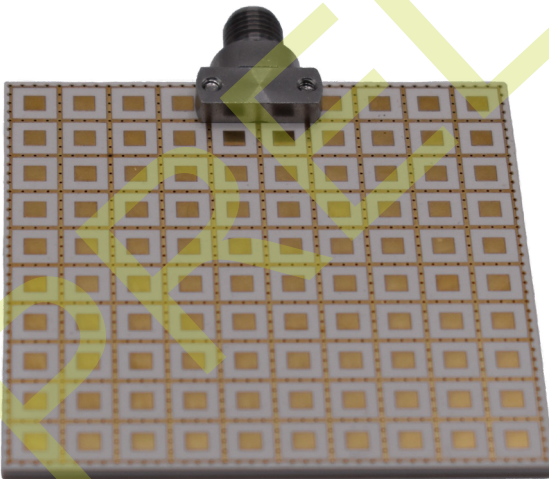
Ka-FPA-2730

Ka-band Flat Panel Array Antenna

Overview

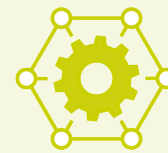
The Ka-FPA-2730 flat panel technology developed by Arralis is a high-performance solution for modern communication systems.

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



Applications

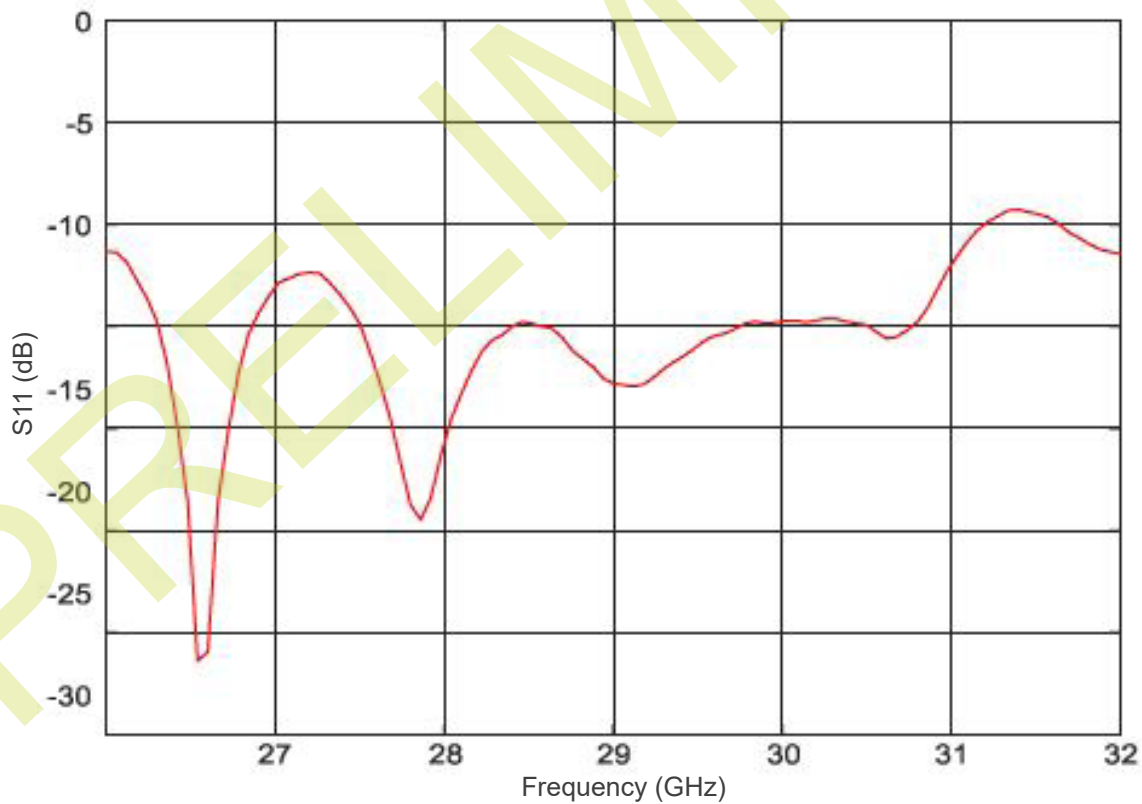
- Satellite communications
- Ground - satellite - ground communications (circular polarization)*
- 5G
- High data rate throughput system

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FPA Specification

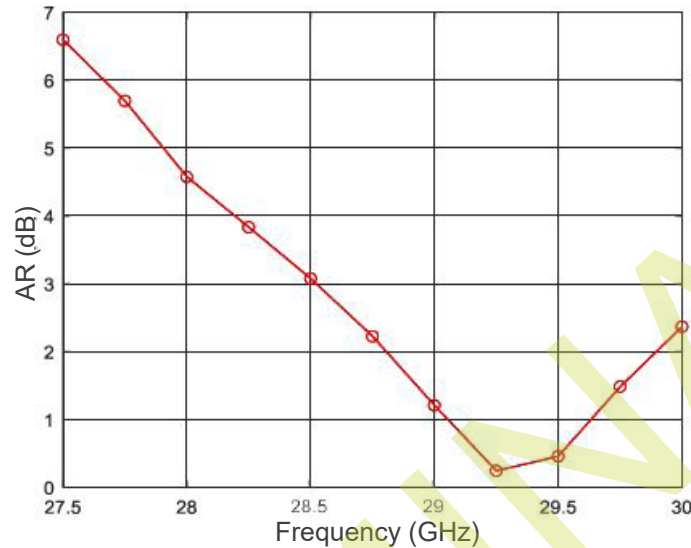
Parameter	Value	Unit
Center Frequency	29.25	(GHz)
Matching Frequency Range	27-31	(GHz)
3 dB Axial Ration Bandwidth*	1.5	(GHz)
Polarization	LHCP or RHCP	
Gain	20	dBi
3 dB Beamwidth	13	(Degree)
Connector	K (rear mounted)	
Impedance	50	(Ohm)
Dimension	51 x 51	(mm)

Matching Bandwidth

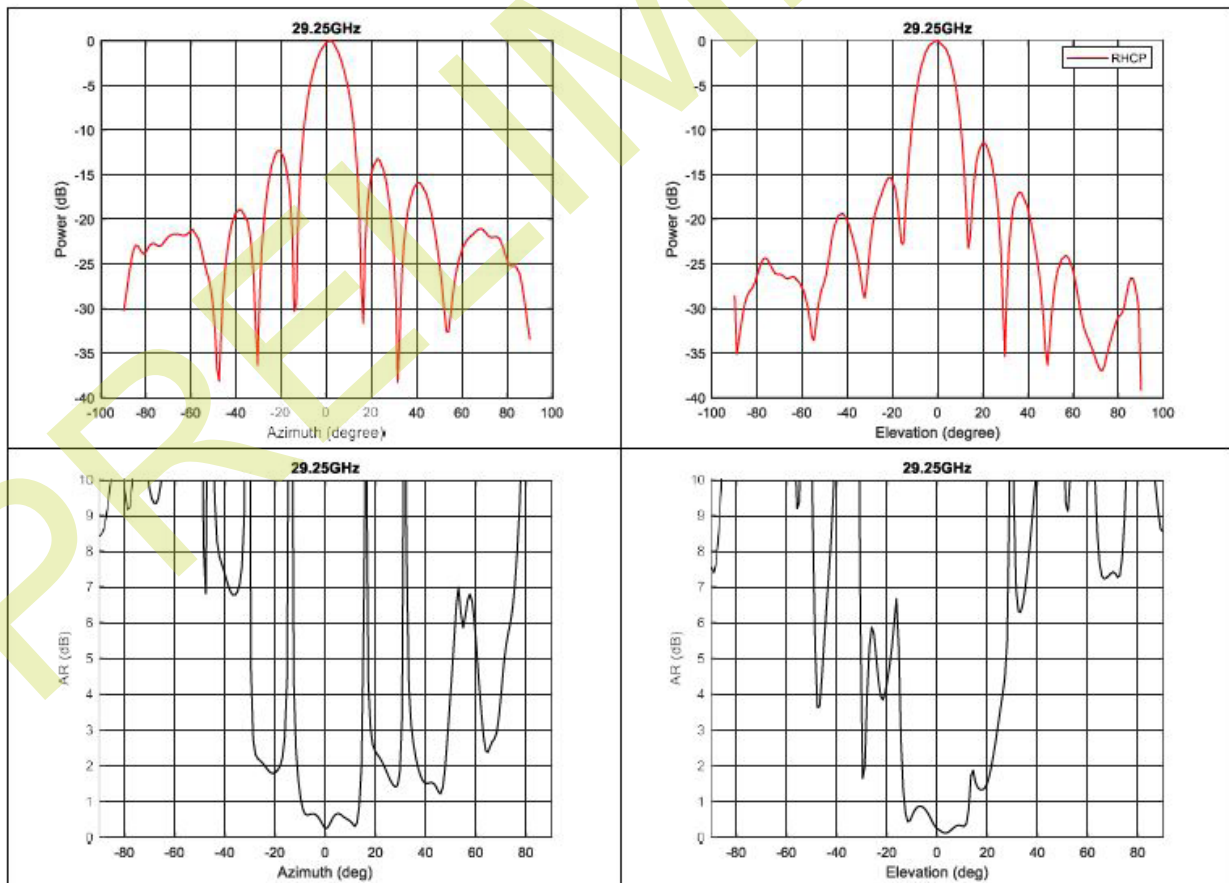


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Axial Ratio vs Frequency

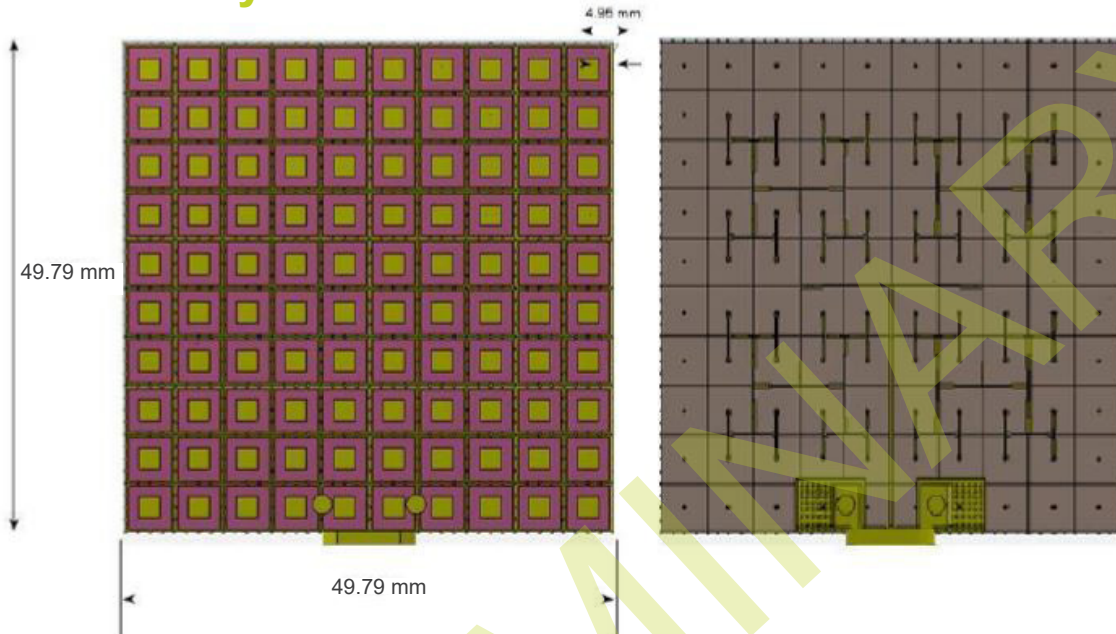


Radiation Pattern



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Board Layout



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Arralis European Offices

Arralis Space Office

e: sales@arralis.com

www.arralis.com

e: emilie.wren@arralis.us

Ka-FPA-2730

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