

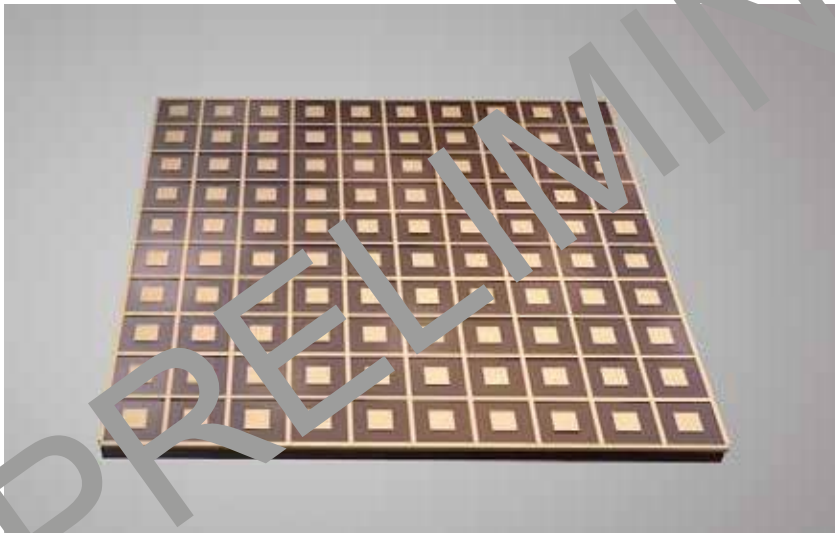
Ka band Antenna Flat Panel Array

Ka-FPA-2730 Previously named LE-KaFP30000

Ka band Flat Panel Antenna 27-31 GHz

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 satcom as well as 5G comms 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

- 27-31 GHz frequency range.
- 29.25 GHz centre frequency.
- Polarization LHCP or RHCP.

Applications

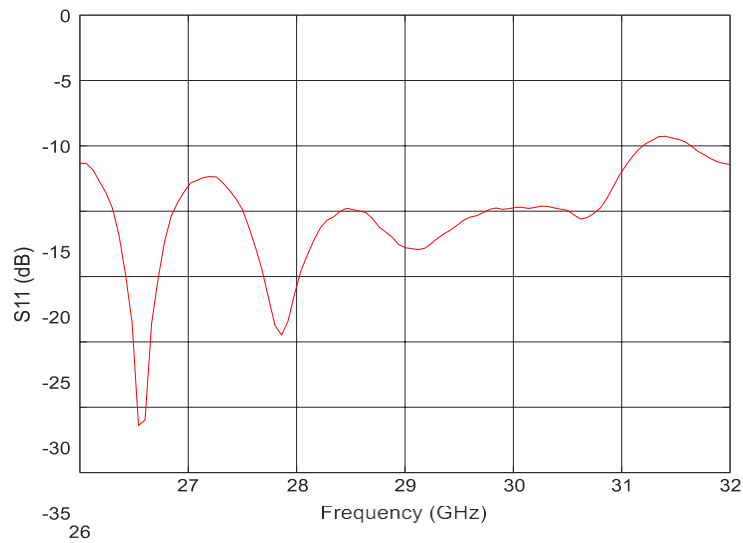
- Ground-satellite-ground communications (Circular polarization)*.
- Inter-satellite communications.
- 5G communications.
- High data-rate throughput system.

	Ka band	Ka-FPA-2730	Issue date: December 2021	DOC REV 5	Page 1 of 4
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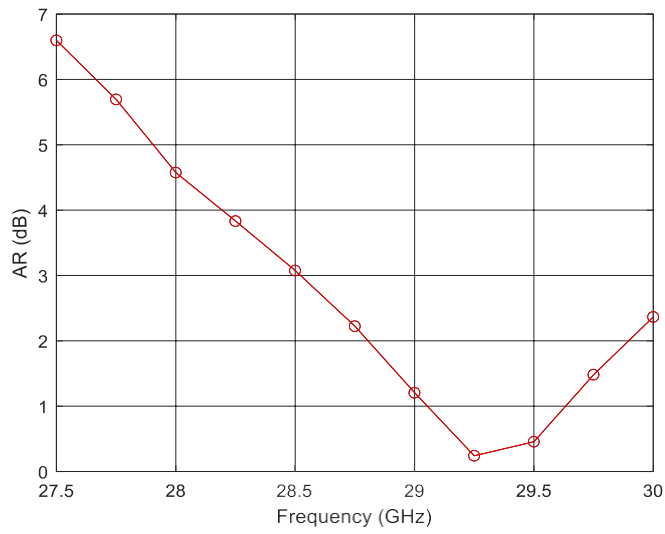
FPA specification

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

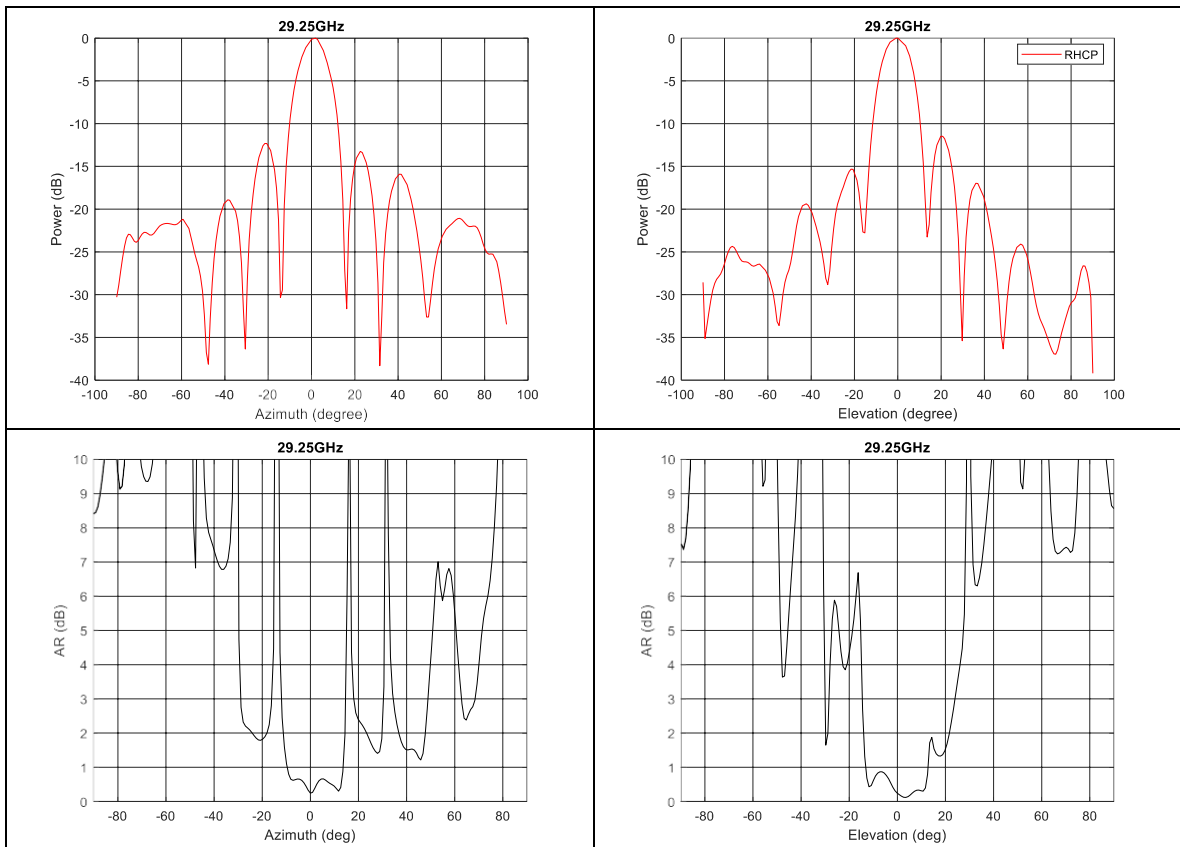
Matching bandwidth



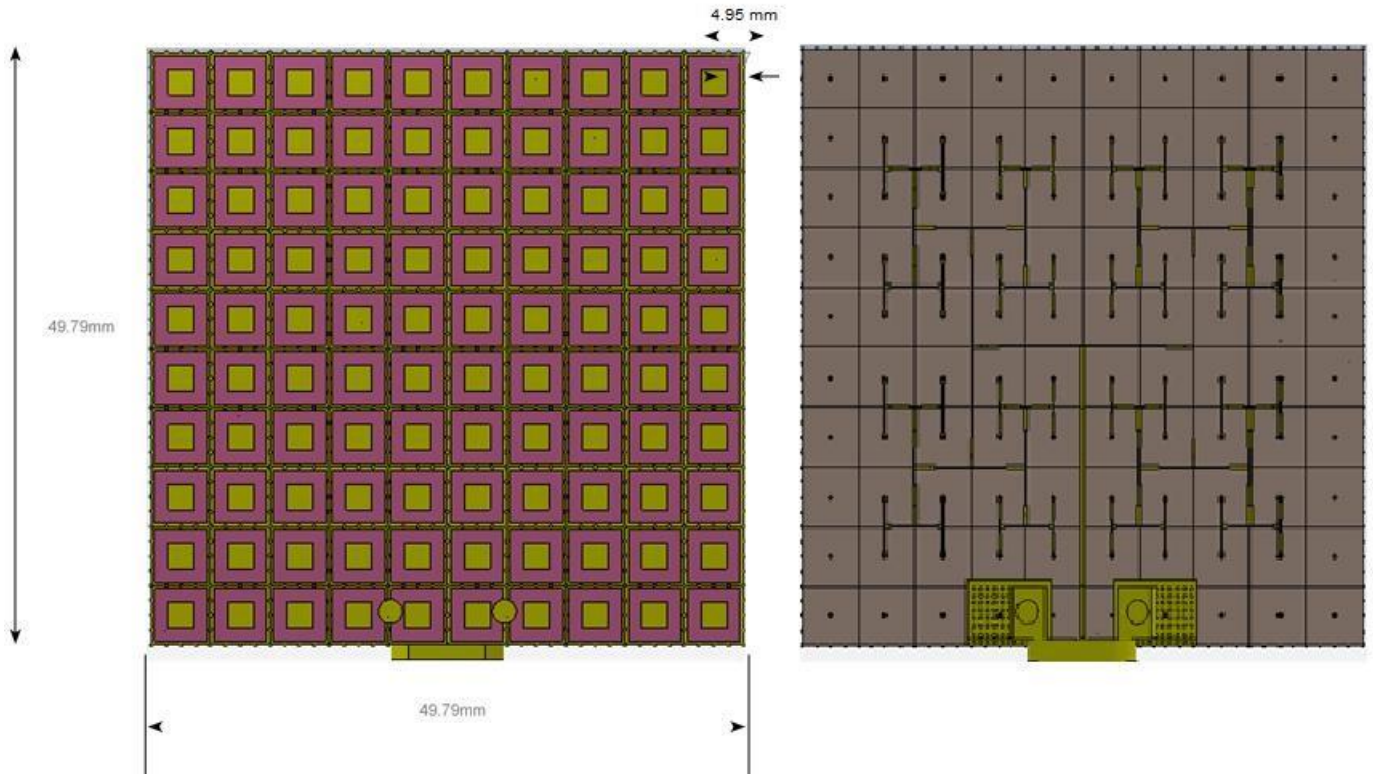
Axial ratio vs frequency



Radiation Pattern



Board Layout



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Arralis European Offices:
 +(44) 1793 239670 (UK)
 e: sales@arralis.com
 arralis.com

Arralis USA Office:
 +(1) 386 301 3249 (USA)
 e: emilie.wren@arralis.co

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	<p>Ka band</p>	<p>Ka-FPA-2730</p>	<p>Issue date: December 2021</p>	<p>DOC REV 5</p>	<p>Page 4 of 4</p>
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