

Preliminary Datasheet

K-FPA-1721

K-band Fixed Beam Flat Panel Antenna 17-21 GHz.

Overview

The K-FPA-1721 passive flat panel technology developed by ReliaSat is a high-performance solution for modern communication systems. It can be used for satellite communications as well as 5G 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.







- 17-21 GHz frequency range
- 19 GHz center frequency
- Polarization LHCP or RHCP
- Fits cubesats



- Satellite communications
- Ground satellite ground communications
- 5G
- High data rate throughput system
- Fixed Beam

Available With The Following Connectors			
Product Code	Connector Type	Polarization	
K-FPA-1721-L8498EC	Edge mount connector	LHCP	
K-FPA-1721-L8498VC	Vertical connector	LHCP	
K-FPA-1721-R8498EC	Edge mount connector	RHCP	
K-FPA-1721-R8498VC	Vertical connector	RHCP	

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FPA Specification

Parameter	Value	Unit
Frequency Band	17-21	GHz
VSWR	<1.65	GHz
Peak Gain	>20	dB
Half-Power Beamwidth (HPBW)	9 - 11	Degrees
Polarization	LHCP or RHCP	Preconfigurable
Axial Ratio	<3	dB
Power Handling	5	W
Connector	K (rear mounted)	
Mass	<50	grams
Dimension (Excl. Connector)	84 x 98	mm

Realized Gain & Axial ratio



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CubeSat Configuration



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