

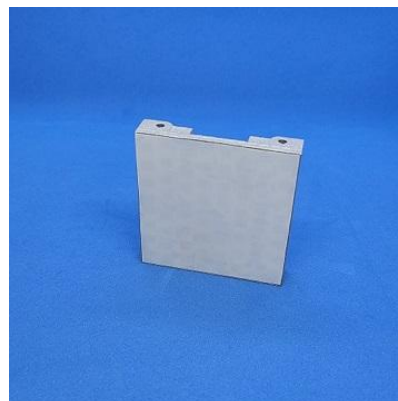
TECHNICAL DATASHEET

KU-BAND LP SERIES

DESCRIPTION:

KAFP series of flat panel antennas covers operating frequency band from 11.0 to 20.0 GHz with three antenna designs: KAFP-24.60.25, KAFP-30.60.25, and KAFP-35.60.25. Each model is a directional, medium gain, linearly polarized antenna with typical gain of 25 dBi and 3-dB beamwidth of around 8 degrees. Flat panel antennas are waveguide array radiators allowing for wideband frequency of operation and excellent radiation efficiency. Monolithic construction from aluminum alloy ensures robustness, lightweight, and repeatable RF performance. The radiating face of the antenna is covered with protective fiberglass cover for environmental sealing.

Modular design allow combining of two or four antennas with external waveguide combiner to increase radiating aperture size and gain.



FEATURES:

- Ka-Band Frequencies: 24.0 to 38.0 GHz
- High Efficiency Waveguide Radiator
- Medium Gain: +25 dBi
- Linear Polarization (V or H)
- Lightweight Monolithic Aluminum Construction
- Environmentally Sealed
- Waveguide Interfaces

RF and ELECTRICAL	KAFP-24.60.25	KAFP-30.60.25	KAFP-35.60.25
Frequency Range:	21.5 - 27.0 GHz	27.0 - 33.0 GHz	32.0 - 38.0 GHz
Gain:	25 dBi (typical)		
Polarization	Linear (V or H)		
3-dB Beamwidth (E-Plane)	8.1 deg	8.2 deg	8.1 deg
3-dB Beamwidth (H-Plane)	8.6 deg	8.5 deg	8.6 deg
VSWR	1.6:1		
Power Handling	50W CW		
MECHANICAL			
Interface	WR-34 (Cover)	WR-28 (Cover)	WR-28 (Cover)
Dimensions	3.0"x3.0"x0.44"	2.5"x2.5"x0.43"	2.1"x2.1"x0.42"
Weight	0.35 lb	0.35 lb	0.25 lb