

K/KA BAND FEED SYSTEM

OVERVIEW

The K/Ka band feed system consists of a corrugated-ring type feed horn, a polarizer, and an orthogonal mode transducer (OMT). It offers dual frequency band operations with a dual and orthogonal circular polarization—one for the transmission and one for the reception. The feed system is typically used for reflector type antennas.

A PROTOTYPE UNIT



KEY FEATURES

- K/Ka dual frequency bands
- Dual circular polarization (orthogonal to each other)
- High antenna efficiency
- Low return loss
- Low axial ratio
- Low PIM
- Variety of beamwidth and gain
- Variety of form factors and dimensions

SPECIFICATIONS [1]

Parameter	Specification	Note
Frequency (GHz)	19.2 - 20.2 GHz	
	29.0 - 30.0 GHz	
Gain (dBi)	15.0 @ 20.0 GHz	Measured at the waveguide (WG) interface
	15.5 @ 30.0 GHz	
Beamwidth (°)	30° @ 20.0 GHz	3dB beamwidth
	25° @ 30.0 GHz	
Polarization	LHCP & RHCP	Orthogonal between K and Ka bands
Return loss (dB)	-20	Measured at WG interface
RF interface	WR28 and WR42	Other interfaces available
PIM	Low	Low PIM design
Multipaction	Low	Low multipaction design
Dimension (mm)	210 x 140 X 40	
Mass (g)	250	

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[1] These are the typical specifications. There is a range of designs with different dimensions, gains and operating frequencies to choose from to meet different applications and requirements

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