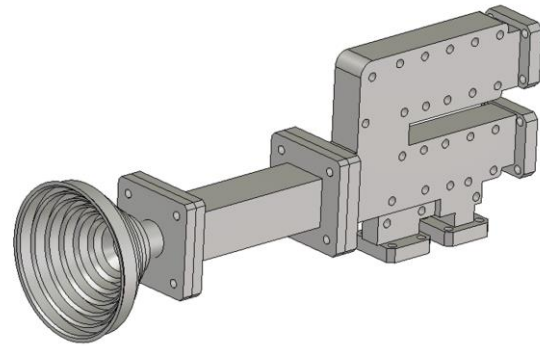


K/KA BAND FEED SYSTEM

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 DESIGN



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

CONTACT US

Info@TechAppConsultants.com
www.TechAppConsultants.com

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	

[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

IT DOES MORE. IT COSTS LESS. ANTENNAS MADE FOR YOU.

(Figures quoted are for information only and subjected to change. All right reserved.)