

KA BAND HORN ANTENNA

OVERVIEW

The Ka band horn antenna offers excellent RF performance over a wide frequency bandwidth including a constant and symmetrical beam pattern, achieved by multiple corrugated rings. It is a compact design with low mass.

This feed horn can be used alone or as a feed to the reflector type antenna. It is often used in conjunction with the polarizer (TAC_1933_K/Ka Band Polarizer) and OMT (TAC_1931_K/Ka Band 4-port OMT) in telecom system.

DESIGN AND PROTOTYPE UNIT



SPECIFICATIONS [1]

Parameter	Specification	Note
Frequency (GHz)	17.0 – 35.0	
Gain (dBi)	15.1 @ 20 GHz	Measured at the waveguide (WG) interface
	13.7 @ 30 GHz	
Beamwidth (°)	32.0° @ 20 GHz	3dB beamwidth
	42.0° @ 30 GHz	
Polarization	LP or CP	
Return loss (dB)	-20	Measured at WG interface
RF interface	Circular waveguide	Other interfaces available
PIM	Low	Low PIM design
Multipaction	Low	Low risk multipaction design
Dimension (mm)	55x55x60	Including the WG flange
Mass (g)	< 100	

KEY FEATURES

- K/Ka dual-band horn antenna
- Multiple corrugated-ring design
- Symmetrical radiation beams in E- & H-plane
- Circular or linear polarizations
- Compact and low mass
- Low return loss
- Low insertion loss
- Low PIM design
- Low risk multipactions design

CONTACT US

Info@TechAppConsultants.com

www.TechAppConsultants.com

[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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