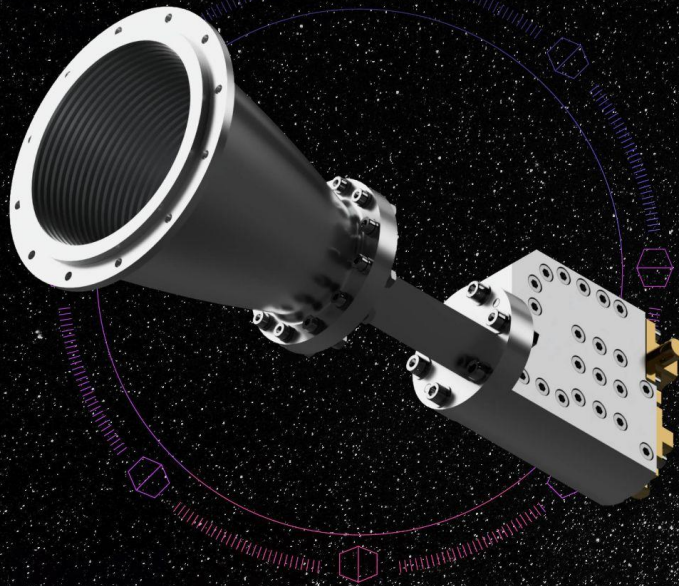


PICOSATS

SPACE TECHNOLOGIES SOLUTIONS

BEAMSAT

K/KA - BAND HORN ANTENNA



COST - EFFECTIVE DUAL BAND DUAL POLARIZATION HIGH - GAIN ANTENNA (HGA) FOR LEO AND GEO APPLICATIONS

OVERVIEW

The **Ka-band horn antenna** is designed for satellite service applications in both **LEO** and **GEO** orbits. With a volume **< 2U** and a mass of **569 g**, it offers **high-gain performance** and supports **dual-band, dual-polarization** capabilities, ensuring reliable communication across a **wide range of frequencies**. Its cost-effective design makes it ideal for missions requiring efficient payload integration, enabling robust data transmission while minimizing space and weight constraints.

APPLICATIONS

- LEO small satellites services
- GEO satellites services
- FSS telecommunications
- HTS Terminals



MAIN PARAMETERS

	K - BAND	KA - BAND
FREQUENCY	17.3-21.2 GHz	27.5-31 GHz
PEAK GAIN	21.5 dBi	24.5 dBi
INPUT MATCHING	<-15 dB	<-16 dB
HPBW	17° @ 19.5 GHz	7.7° @ 29 GHz
INSULATION	< -80 dB	-
AXIAL RATIO	< 2 dB	< 2 dB
POLARIZATION	LHCP (opt. RHCP)	RHCP (opt. LHCP)
CONNECTOR	2.92	2.92

MECHANICAL PROPERTIES

MASS	569 g
VOLUME	88.0 mm x 88.0 mm x 218.0 mm

