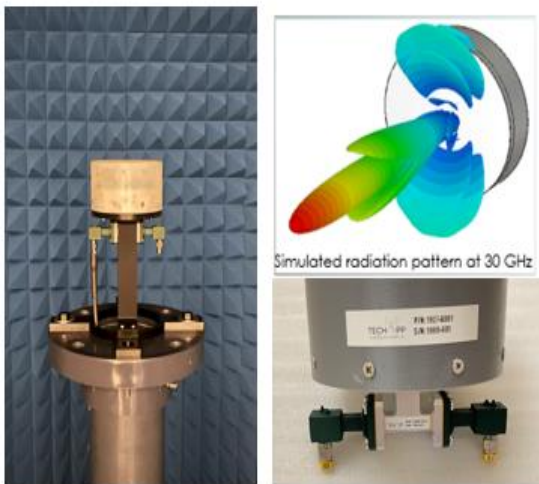


½U K/KA BAND ANTENNA

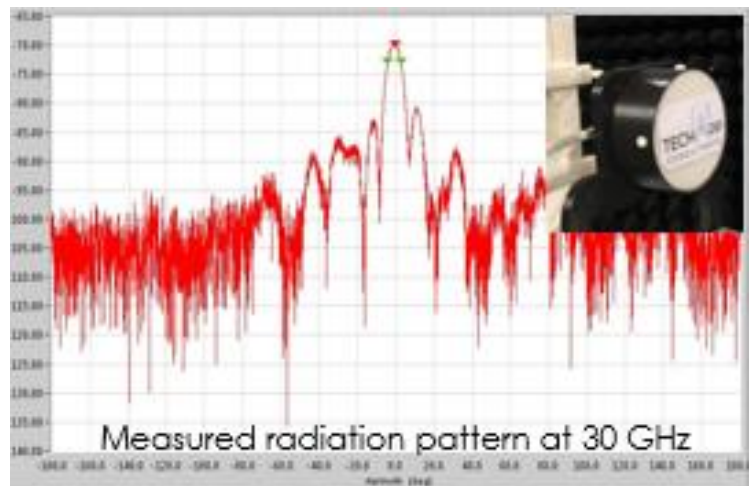
OVERVIEW

This compact, high efficiency and high gain antenna is designed for Microsat, although it can be employed for other applications too. The antenna works in a very wide frequency band with either linear or circular polarization. An external polarizer and OMT [1] can be added for the antenna to transmit and receive simultaneously.

DESIGN AND SIMULATED BEAM



A PROTOTYPE IN MEASUREMENT/RESULT



SPECIFICATIONS [2]

Parameter	Specification	Note
Frequency (GHz)	K	Typical 17.7 – 20.2 GHz
	Ka	Typical 27.3 – 30.0 GHz
Gain (dBi)	22 @ 20 GHz	Measured at the waveguide (WG) interface
	26 @ 30 GHz	
Beamwidth (°)	10° @ 20 GHz	3dB beamwidth
	7° @ 30 GHz	
Polarization	LP or CP	Dual polarizations with OMT
Return loss (dB)	-15	Measured at WG interface
RF interface	Circular waveguide	Other interfaces available
PIM	Low	Low PIM design
Multipaction	Low	Low multipaction design
Dimension (mm)	98 (dia.) x 55 (height)	Including the WG flange
Mass (g)	< 250	

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[1] TAC offers a range of OMTs and Polarizers, details available on request
 [2] These are the typical specifications, which are subjected to negotiations

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