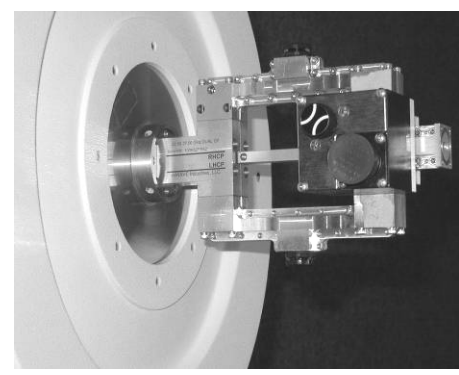


28" K/Ka-band Single Circular Polarized Cassegrain Antenna with Remote Polarization Switching

Model: RPCS2.3-250-420

The photos below depict a VSAT Cassegrain antenna. The main reflector is a precision 28" diameter low-RMS lightweight composite with integral mounting hub. The primary radiator is a machined corrugated conical horn providing exceptional polarization discrimination performance, side lobe suppression, and beam symmetry. The primary radiator is capable of simultaneously transmitting and receiving using the same polarity. The Rx operating frequency range is 22.55 to 23.55 GHz. The Tx operating frequency range is 25.25 to 27.50 GHz. Each polarization operates over the full frequency band. The RF Input is a WR-42 flat flange with o-ring groove. The polarization is electronically switchable between LHCP and RHCP via remote control using a 24VDC switch.



Below is a summary of typical performance data recorded on the mWAVE outdoor test range.

Model: RPCS2.3-250-420

Frequency (GHz)	Gain (dBic)	HPBW (deg.)	On-Axis Axial Ratio (dB)	1 st Side Lobe (dB)	Return Loss (dB)
22.550	40.2	>1.0	1.1	16.3	27.6
23.050	40.4	>1.0	0.7	24.0	27.0
23.550	40.6	>1.0	1.1	19.0	16.2
25.250	41.3	>1.0	0.7	16.9	20.1
26.375	41.7	>1.0	0.5	19.8	22.0
27.500	42.0	>1.0	0.6	25.5	35.0

Contact mWAVE Industries, LLC for your antenna development and manufacturing needs.

Specifications are subject to change without notice