

2.4m Ka satellite Rx/Tx antenna



PERFORMANCE SPECIFICATIONS

Type	SCE(Ka)-240A	
Electrical Specifications	Ka-Band	
	Receive	Transmit
Operating Frequency,GHz	19.7~20.2	29.5~30
Gain, Mid-Band, dBi	51.63	55.10
Polarization	Linear/circular	
XPD (on axis) ,dB	35	35
VSWR	1.25:1	1.25:1
Antenna Noise Temperature		
10°Elevation	65K	
30°Elevation	55K	
50°Elevation	50K	
-3dB Beamwidth, Mid-Band	0.43°	0.289°
Tx. Power Capability, KW		0.5
Feed interface	WR-42	WR-34
Isolation, Tx to Rx, dB	85	

First Sidelobe 90% Peaks under Following envelop	-14 $29 - 25 \log \theta \quad (1^\circ \leq \theta < 20^\circ)$
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MECHANICAL SPECIFICATIONS

Antenna Diameter	2.4m
Antenna Type	Ring Focus
Mount Type	El. Over Az.
Surface Accuracy (RMS)	$\leq 0.3\text{mm}$
Weight (Net)	300 kg
Antenna Pointing Range(Continuous)	
Azimuth	$0^\circ \sim 360^\circ$
Elevation	$0^\circ \sim 90^\circ$
Polarization	$\pm 90^\circ$
Drive Mode	Manual or Motor