

ANP0082A

7 m Cassegrain
antenna

Model Type: **ANP0082A**

Cassegrain antenna with elevation over azimuth motorization



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Electrical Specification	
Frequency Range:	RX 10.70 -12.75 GHz TX 13.75 -14.5 GHz
TX/RX Polarization:	Linear orthogonal
Polarisation isolation	@ -1 dB contour: >35dB
Gain in TX band (13.83 GHz):	56.45dBi
Gain in RX band (11.70 GHz):	57.90dBi
Sidelobes mask:	29-25 log(f) dBi for $2.5^\circ < f = 7.0^\circ$ 8dBi for $7.0^\circ < f 9.2^\circ$ 32-25 log(f) dBi for $9.2^\circ < f = 48^\circ$ -10dBi for $48^\circ < f$
Feed type:	2 ports/4 ports
Insertion loss:	TX >0.3dB RX >0.4dB
Return loss:	RX >20dB TX >21dB
Isolation between TX and RX ports :	>80dB (in TX band) >70dB (in RX band)
Antenna noise temperature:	31.30 dB/K (@ 11.7GHz and 40° El)
G/T (with 60° K LNB)	34.5 dB/K (@ 40° Elevation)
Surface accuracy (RMS)	<0.4 mm
EIRP	81.55 dBW (min@ 14.5GHz)
Mechanical Specification	
General	
Antenna diameter:	7 m
Antenna Optic:	Gregorian
Azimuth coverage:	+/- 40 deg.
Elevation coverage:	15 to 70 deg.
Azimuth speed:	0.10 Deg./sec.(Fast) 0.03 Deg./sec(Slow)
Elevation speed:	0.10 Deg./sec.(Fast) 0.03 Deg./sec(Slow)
Polarisation speed:	0.04 Deg./sec (upon request)
Structure weight:	11000kg



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Travel ranges

Antenna pointing:	manual through ASC0005C
Antenna step-track:	Automatic through ASC0005C
Antenna sensors:	Trough resolvers (El, Az axes)

Operative conditions

Max wind load:	90km/h
Environmental condition:	-20/+50 °C

Environmental specifications

Solar radiation:	1000W/mq
Rain:	Operational and survival in heavy rainstorms
Relative humidity:	0% to 100% with condensation

Survival conditions

Max wind load (stowed):	180 km/h
Environmental conditions:	-40/+60 °C
Radial ice survival:	2.5 cm on all surface



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