

Performance details for the 9m Antenna are given in the table below:

Item	Description	
Frequency(GHz)	Transmit: 27.0 ~ 30.0	Receive: 17.7 ~ 20.2 Track: 17.7 ~ 20.2
Gain (dBi)	$66.5+20\log(f/30)$	$63.4+20\log(f/20.2)$
Polarization	Dual circular polarization	
Radiation pattern	Comply to regulations ITU R-S.580-5	
VSWR(at feed port)	Maximum 1.3:1	
Power Handling	1000W CW per Tx port	
Antenna Noise Temperature	97K max at 30°elevation	
Port Isolations	Rx to Rx: $\geq 20\text{dB}$ Tx to Tx: $\geq 20\text{dB}$ Tx to Rx: $\geq 85\text{dB}$ in Tx band Tx to Rx: $\geq 85\text{dB}$ in Rx band Tx to Track: $\geq 85\text{dB}$	
Axial Ratio @1dB beam width	Tx and Rx : Better than 1.06:1 (Equivalent 30.7 dB X-pol isolation)	
Feed ports	Tx 2 ports; Rx 2 ports; Track 2 ports	

[illegible]