

Electrical

Antenna Size		1.8 M (71 in)
Operating Frequency	<i>Receive</i>	10.95 – 12.75 GHz
	<i>Transmit</i>	14.0-14.5 GHz
Midband Gain (± 0.2 dB)	<i>Receive</i>	45.0 dBi
	<i>Transmit</i>	46.5 dBi
Feed Type		Linear
3 dB Beamwidth	<i>Receive</i>	.99°
	<i>Transmit</i>	.79°
Antenna Noise Temperature		
10° elevation		43° K
20° elevation		28° K
30° elevation		23° K
Cross-Pol Isolation (Linear)		> 30dB (on axis)
Side Lobe Envelope, Co-Pol Tx (dB)		
100 λ /D $\theta \leq 20^\circ$		29-25 Log θ dBi
20° < $\theta \leq 26.3^\circ$		-3.5 dBi
26.3 < $\theta \leq 48^\circ$		32-25 Log θ dBi
$\theta > 48^\circ$		-10 dBi (average)
VSWR		1.3:1 Max.
Feed Interface	<i>Receive</i>	WR-75
	<i>Transmit</i>	WR-75

Mechanical

Reflector Material	Glass Fiber Reinforced Polyester	
Antenna Optics	Prime Focus, One Piece Offset Feed	
Polarization Travel	$\pm 90^\circ$ Continuous	
Mount Type	Elevation over Azimuth	
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment	
Azimuth Adjustment Range	360°, Continuous, Fine Adjustment	
Mast Pipe Size and Height	5" (126mm) dia, 48" (1220 mm) height	
Shipping Weight		

Environmental Performance

Wind Loading	<i>Operational</i>	50 mph with 0.2° pointing error (80kmph)
	<i>Survival</i>	125 mph (201 km/h)
Temperature	<i>Operational</i>	-40° to 140° F (-40° to 60° C)
	<i>Survival</i>	-50° to 160° F (-46° to 71° C)
Rain	<i>Operational</i>	½ "/hr (1.27 cm/hr)
	<i>Survival</i>	2" /hr (5.08 cm/hr)
Ice	<i>Operational</i>	-----
	<i>Survival</i>	½ " (1.27 cm) radial



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