



# SA13-105

105° Azimuth Beam, 72.5 inches

Directing our energies for you.

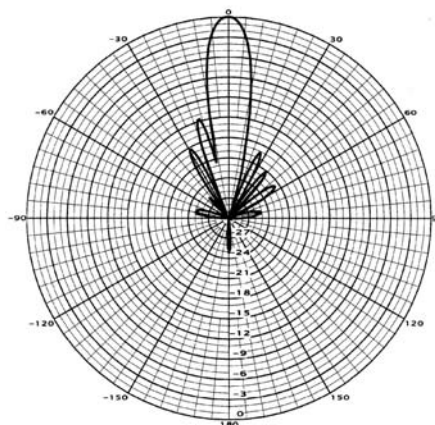
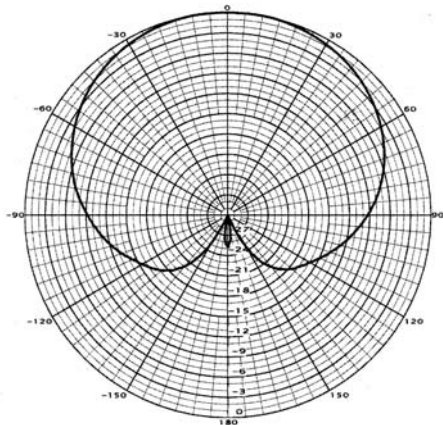
824-896 MHz Vpol

## Electrical Specifications

Frequency	824-896 MHz
Polarization	Vertical
Gain	13.2 dBd
Horizontal Beam (3dB Points)	105°
Vertical Beam (3dB Points)	11°
Electrical Downtilt Options	0°
VSWR / Return Loss	<1.35:1 / 16.5 dB
Front-to-Back at Horizon	>25 dB
Upper Side Lobe Suppression	<-21 dB
Impedance	50 Ohms
Power Input Per Connector	500 CW at 800 MHz
Intermodulation (2x20W)	typ. -150 dBc

## Mechanical Specifications

Input Connector (female)	Back 7/16 DIN (silver finish)
Antenna Dimensions (LxWxD)	72.5 x 14.0 x 9.0 in. (1841 x 356 x 229mm)
Antenna Weight	27.5 lbs
Bracket Weight	13.2 lbs
Lightning Protection	Direct Ground
RF Distribution	Silver Plated Brass
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	120 mph
Front Wind Load @ 100MPH	186 lbs
Equivalent Flat Plate @ 100MPH	3.80 sq-ft. (c=2)
Mounting Brackets	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-12°
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel



Recommended Connector Coupling Torque  
7/16 DIN: 220-265 lbf-in (25-30 N-m)

**1 Year Warranty**

## Ordering Information & Options

SA13-105-x

SA13-105-x-j#

"-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0..

add a "-j#" to add a 1/2" RF cable, where "#" is the cable length, "j2" is 2 meters, "j4" is 4 meters, "j6" is 6 meters...