

DECIBEL PRODUCTS ALLEN TELECOM GROUP

DB906S . -P / DB906S. -T

6 dBd Low Profile Omni Antenna

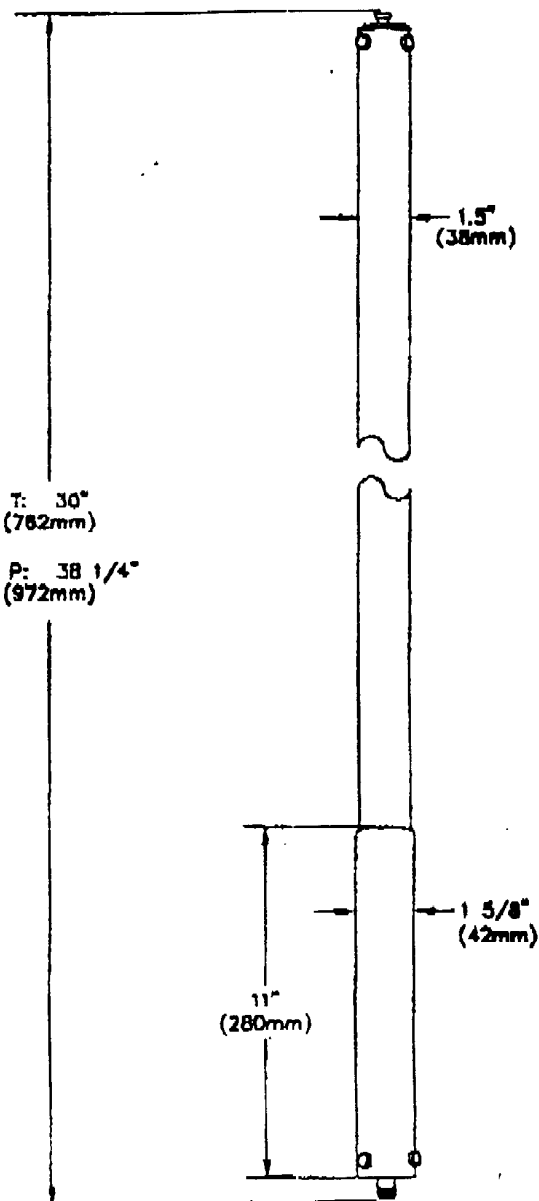
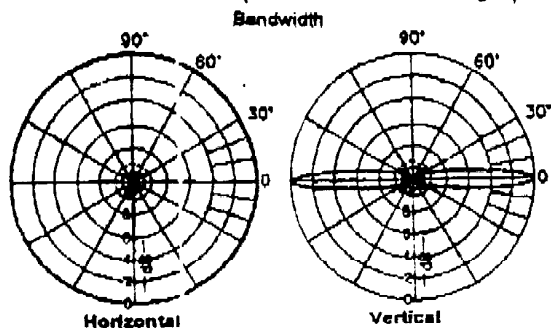
2130-2200 MHz / 2400-2483 MHz



099052-000-A

Model Number	DB906SN-P/T	DB906SE-P/T
Termination	N-Female	7-16 Female
Frequency Range	P:2130-2200 MHz	T: 2400-2483 MHz
Gain (Mid Band)	6 dBd or 8.1 dBi	
VSWR	< 1.5 : 1	
Beamwidth (3 dB from max)	Vertical	15°
Polarization	Vertical	
Max. Input Power	400 Watt	
Other Information	Application: Rx or Tx, Rx and Tx	
Weight	4 lb (1.8 kg)	5 lb (2.3 kg)
Wind Area	.22 ft. ² (.02 m ²)	.27 ft. ² (.03 m ²)
Wind Load	8.8lb (39N)	10.8lb (48N)
	(at 100 mph or 160 km/h)	
Max. Wind Speed	150 mph (240 km/h)	
Material	Radiators: Brass Radome: Fiberglass Mounting Casing: Passivated Aluminum Mounting Hardware: Steel, V2A or galvanized	
Color	Blue-green	
Lightning Protection	Direct ground.	
Packing Size	31.5 x 9.8 x 9.8 in (80 x 25 x 25 cm)	40 x 9.8 x 9.8 in (102 x 25 x 25 cm)
Shipping Weight	10 lb (4.5 kg)	13 lb (5.9 kg)

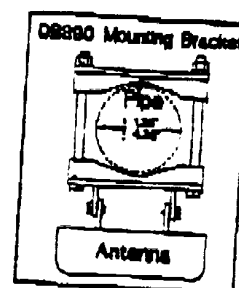
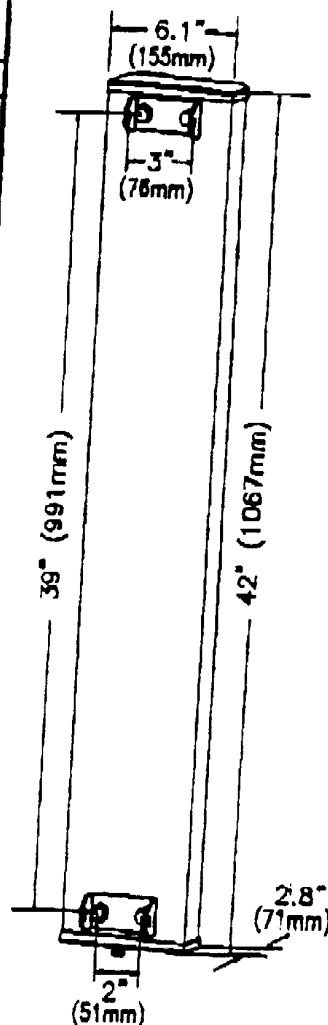
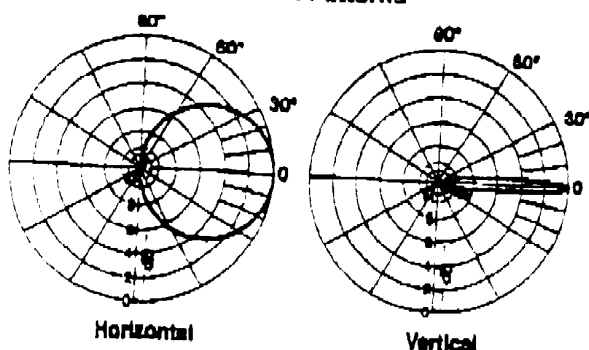
Radiation Patterns (Relative Field Strength)



6 dBd (8.1 dBi) Low Profile Omni
Antenna for Receive and/or Transmit
Systems P: 2130-2200 MHz / T: 2400-
2483 MHz

DB977H90(E/N)-S90°, 14 dBd Directional Antenna
2300-2500 MHz

Model Number	DB977H90E-S	DB977H90N-S
Connector Options	Bottom: E = 7-16 DIN	N = Type N Female
Frequency Range	2300 - 2500 MHz	
Gain	14 dBd (16.1 dBi)	
Null Fill	First lower null is less than 18 dB down from max. First upper side lobe suppressed.	
VSWR	< 1.4:1	
Beamwidth (3dB from max)	Horizontal	90° ± 7°
	Vertical	7° ± .5°
Front to Back Ratio	> 25 dB	
Polarization	Vertical	
Max. Input Power	250 Watts	
Application		
Weight	6.2 lb (2.8 kg)	
Wind Area	1.8 ft² (.17 m²)	
Wind Load	72 lbf (320N) 32.4 kp (at 100 mph)	
Max. Wind Speed	125 mph (201 km/h)	
Material	Reflector Screen: Radiators: Radome: Mtg. Hardware:	Pass. Aluminum Brass PVC, UV Resistant Galvanized Steel
Color	Normal: Gray	
Mounting	DB990 pipe mount kit, included.	
Downlift Brackets (Optional)	DB5098	
Weather Protection	Fully protected by backplate and radome.	
Lightning Protection	All metal parts grounded.	
Packing Size	TBD	
Shipping Weight	TBD	

PRELIMINARY**Antenna Patterns**

14 dBd (16.1 dBi) Gain Directional Antenna with 90° horizontal 3 dB beamwidth for 2300-2500 MHz.

Electrical downtilt (T) option available upon request.

Specifications are for reference only.

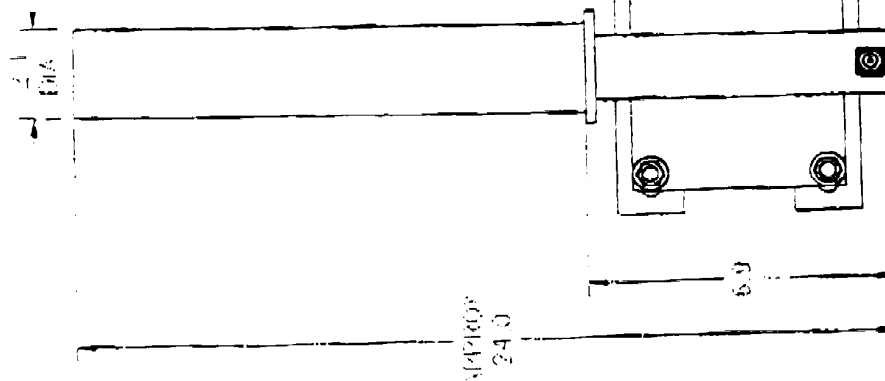
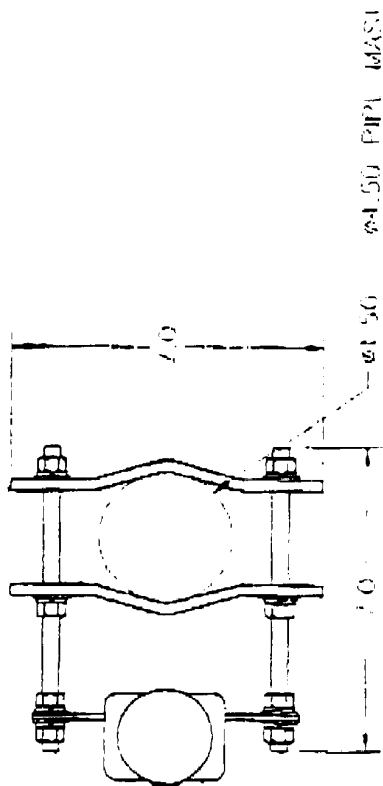
088055-001-PRE 7/87A



DECIBEL PRODUCTS
A Division of the ALLEN TELECOM GROUP

8635 Stemmons Freeway • P. O. Box 588610 • Dallas, Texas 75358-8810
214 / 631-0510 • Fax: 214 / 631-4706





ELECTRICAL CHARACTERISTICS

FREQUENCY: 5.725 - 5.850 GHz

GAIN (TYPICAL): 16 dBi

POLARIZATION: HORIZONTAL

HPBW, ELEVATION: 10°

HPBW, AZIMUTH: 90°

VSWR: 1.5 : 1

CONNECTOR: TYPE "N" (F)

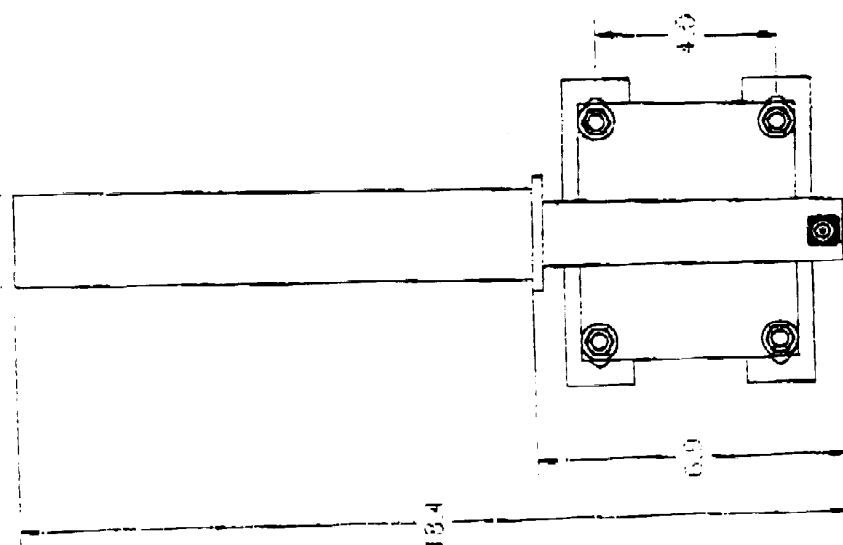
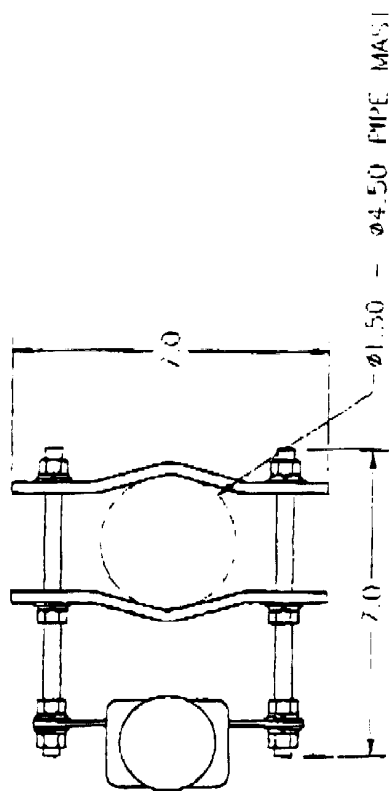


TITLE: OUTLINE, SECTOR ANTENNA

5.8 GHz, 16 dBi

REV	DATE	BY	CHK	APP	REV
A					1
SCALE: 1" = 1"					SHEET 1 OF 1

NOTES:
1. FOR OPTIMUM PERFORMANCE,
MOUNT ANTENNA ABOVE PIPE MAST AS
SHOWN TO AVOID OBSTRUCTION



PIPE MAST TOP
(SEE NOTE 1)

TYPE 'N'
FEMALE

ELECTRICAL CHARACTERISTICS

FREQUENCY 5.725 - 5.850
GHz

GAIN (TYPICAL) 8 dBi

POLARIZATION HORIZONTAL

HPBW, ELEVATION 20°

HPBW, AZIMUTH 360°

VSWR 1.5 : 1

CONNECTOR TYPE 'N' (F)



OUTLINE, OMNI ANTENNA
5.8 GHz, 8 dBi

REV	DATE	BY	CHK	NO.	QTY	OF
1	A			0014-11-5-8		



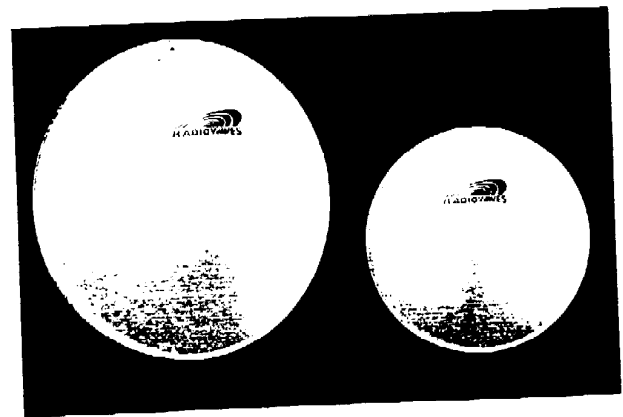
Radio Waves, Inc • 267 Boston Road • Billerica, MA 01862 USA

2.4 GHz (2.3-2.5) & 5.8 GHz (5.725-5.850)

Dual band, Standard Parabolic Antenna

Key Features:

- **Antenna diameters**
 - 1' (30 cm)
 - 2' (60 cm)
 - 3' (90 cm)
 - 4' (120 cm)
- **Antenna weights**
 - 1'-15 lbs. (6.8 kg)
 - 2'-22 lbs. (9.9 kg)
 - 3'-35 lbs. (18.0 kg)
 - 4'-50 lbs. (22.5 kg)
- **Connector interface:** Type "N" female.
- **Ease of installation:** Antennas shipped completely assembled, mount requires minimal assembly.
- **Optional molded radomes.** Radomes shipped factory installed. Standard on 1-ft model.
- **Left or Right pole mountable.**
- **Rugged and lightweight** cast aluminum mounts with and without fine adjustment.
- **Standard white:** other colors and / or logos available on request.
- **Corrosion resistant:** All materials are of coated aluminum hot dipped galvanized steel and stainless steel (300 series).
- **Three year warranty.**



Electrical Characteristics, (Typical Performances)

Frequency, GHz	Model Number	Diameter ft. (cm)	Gain dBi (dBS)	Efficiency, dB	SWR	VSWR	VOL. LOSS (dB)
Single Polarized							
2.3-2.5 & 5.725-5.850	SP1-2/5	1, (30)	14.0	28.2	26	25	1.50:1 (14.0)
			23.3	11.8		32	1.50:1 (14.0)
2.3-2.5 & 5.725-5.850	SP2-2/5	2, (60)	21.1	14.0	28	28	1.40:1 (15.5)
			28.3	6.0		36	1.35:1 (16.5)
2.3-2.5 & 5.725-5.850	SP3-2/5	3, (90)	24.1	9.5	30	30	1.40:1 (15.5)
			31.4	4.0		38	1.35:1 (16.5)
2.3-2.5 & 5.725-5.850	SP4-2/5	4, (120)	27.0	7.3	30	34	1.40:1 (15.5)
			34.6	2.9		42	1.35:1 (16.5)