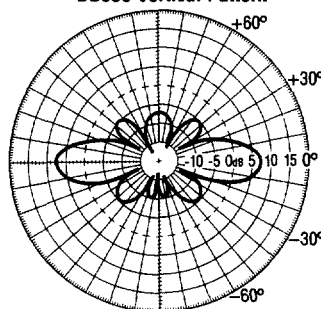
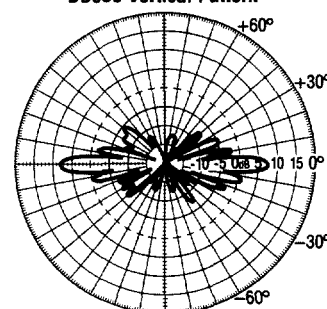
**DB638**

DB636 with 6 dBd gain and DB638 with 8 dBd gain are UHF omnidirectional antennas. Radiators are enclosed in a 3" (76.2 mm) OD Horizon Blue™ radome made of Minimum-Tip-Deflection® (MTD®) fiberglass, Decibel Product's heavy duty radome material that resists high winds with very little tip deflection.

- **Full UHF Coverage** – Four models fulfill spectrum needs for UHF conventional, paging and radiotelephone communications.
- **Sturdy Construction** – In addition to the MTD fiberglass radome, each antenna has a 26" (660.4 mm) weather-resistant mast made of strong 6061-T6 aluminum alloy.
- **Engineered to Last** – All metals used in radiator, feed and matching systems are copper or brass, which minimizes galvanic reaction and reduces intermodulation.
- **Lightning Resistant** – A large diameter conductor extends from top to bottom to provide ground to the tower.
- **Moisture Resistant** – A removable drain plug is located at the top and bottom of each antenna.
- **Ready to Install** – DB365-OS Clamps and VAPOR-WRAP® are provided.

**Ordering Information** – Order DB636 for 6 dBd gain and DB638 for 8 dBd gain. Use model number for correct frequency. Clamps are included. Order jumper cable separately.

**DB636 Vertical Pattern****DB638 Vertical Pattern****Frequency Ranges Available – MHz**

DB636/638NS-A	406-436
DB636/638NS-B	425-455
DB636/638NS-C	450-482
DB636/638NS-D	480-512

**Electrical Data**

	DB636	DB638
Frequency Range – MHz	406-512	406-512
Bandwidth	See table	See table
Gain (maximum) – dBd	6	8
Beamwidth "E" Plane (half power)	20°	10°
Beamwidth "H" Plane (half power)	Omni	Omni
Maximum power input – watts	500	500
Input impedance – ohms	50	50
VSWR	1:5 to 1	1:5 to 1
Lightning protection	Direct ground	Direct ground
Termination	Type N-Female (fixed)	Type N-Female (fixed)

**Mechanical Data**

	DB636	DB638
Lateral thrust at 100 mph (161 km/hr) – lbf (N)	64.4 (286.5)	108 (480.4)
Radome OD – in. (mm)	3 (76.2)	3 (76.2)
Radome ID – in. (mm)	2.5 (63.5)	2.5 (63.5)
Radome length – ft. (m)		
NS-A	9.4 (2.9)	16.1 (4.9)
NS-B	9.1 (2.8)	15.4 (4.7)
NS-C	8.3 (2.5)	14.6 (4.5)
NS-D	8.2 (2.5)	14 (4.3)
Mast OD – in. (mm)	2.5 (63.5)	2.5 (63.5)
Mast length – in. (mm)	26 (660.4)	26 (660.4)
Maximum exposed area (flat plate equivalent) – ft² (m²)	1.61 (.15)	2.70 (.25)
Wind rating: – mph (km/hr)*	220 (354)	140 (226)
Tip deflection at 100 mph (161 km/hr)	1.1°	6.6°
Bending moment 1" (25.4 mm) below top of mast at 100 mph (161 km/hr) – ft./lbs. (N/m)	242.6 (329)	773 (1048)
Radome	Fiberglass	Fiberglass
Radiators	Brass	Brass
Support pipe	6061-T6 Aluminum	6061-T6 Aluminum
Net weight – lbs. (kg)	30 (13.61)	40 (18.14)
Shipping weight – lbs. (kg)	40 (18.14)	85 (38.55)
Clamps (galvanized steel)**	DB365-OS	DB365-OS

\*Calculation of wind survivability does not include damage due to flying debris.

\*\*Shipping weight = 10 lbs. (4.54 kg).