

DB201 GROUND PLANE OMNI ANTENNA

UNITY GAIN, 30-174 and 220-512 MHz



- **Very popular** - Heavy duty, light weight antenna is one of our most widely used.
- **Unique Design** - Features a new approach to the feeding of the insulated portion of the radiator.
- **Moisture Resistant** - 50-ohm feed-through connector is encapsulated in a moisture and corrosion proof molded epoxy insulator.
- **Cut and Tested** - The radiating element and ground radials are cut to frequency and tested at the factory for minimum VSWR. Uncut models for 30-50, 144-174 and 406-512 MHz are optional. Cutting chart is included.
- **Lightning Resistant** - Constructed of metal with all elements operating at DC ground.
- **Protected Lead** - A male-to-female connection is weather protected but can be replaced if necessary.
- **New** - 30-50 MHz models have galvanized steel support pipe.
- **Easy Mounting** - Galvanized steel DB365-OS Mount is furnished for mounting atop a tower, pole or building

Ordering Information - Use model number for correct frequency or specify uncut model and frequency range, also termination if non-standard. Order jumper cable separately, if desired.



Electrical Data	
Frequency Ranges – MHz	A = 30-33, B = 33-37, C = 37-42, D = 42-50, E = 60-88, F = 100-144, G = 144-150, H = 150-174, J = 225-406, JJ = 220-222, K = 406-512
	Uncut models: L = 30-50, M = 144-174, N = 406-512
Bandwidth VSWR	2% of frequency 1.5 to 1 or less
Nominal impedance – ohms	50
Gain (over half-wave dipole) – dB	Unity
Maximum power input – watts	500
Vertical beamwidth (half power points)	78°
Lightning protection	Direct ground
Standard Termination: Captive Type N-male to end of flexible lead. Other fittings are available on special order. If UHF connector is required, an adapter is provided.	

144-512 MHz antennas can be shipped by UPS.

Mechanical Data				
	35 MHz	50 MHz	150 MHz	450 MHz
Radiator (aluminum) – in. (mm)	.875 (22.23) OD with .125 (3.18) wall & .375 (9.35) OD solid rod	.875 (22.23) OD with .125 (3.18) wall & .375 (9.35) OD solid rod	.875 (22.23) OD with .125 (3.18) wall & .375 (9.35) OD solid rod	.875 (22.23) OD with .125 (3.18) wall & .375 (9.35) OD solid rod
Ground rods (aluminum) – in. (mm)	.5 (12.7) OD solid rod tapered to .250 (6.35) OD	.5 (12.7) OD solid rod tapered to .250 (6.35) OD	.5 (12.7) OD solid rod	.5 (12.7) OD solid rod
Support pipe – in. (mm)	1.31 (33.34) OD, 24 (609.6) length	1.31 (33.34) OD, 24 (609.6) length	1.31 (33.34) OD, 12 (304.8) length	1.31 (33.34) OD, 12 (304.8) length
Maximum exposed area (flat plate equivalent) – ft ² (m ²)	1.1 (.102)	0.8 (.074)	.4 (.037)	.3 (.028)
Wind rating:				
Survival without ice – mph (km/hr)	93 (150)	122 (196)	over 125 (201)	over 125 (201)
Survival with .5" (12.7 mm) radial ice – mph (km/hr)	51 (82)	65 (105)	over 125 (201)	over 125 (201)
Lateral thrust at 100 mph (161 km/hr) – lbf (N)	44 (195.7)	32 (142.3)	16 (71.2)	12 (53.4)
Overall length – in. (mm)	101 (2.57)	78 (1.98)	30 (.76)	19 (.48)
Height (above base plate) – in. (m)	77 (1.96)	54 (1.37)	18 (.45)	6.5 (.17)
Maximum width (horizontal) – in. (m)	216 (5.49)	151 (3.84)	49 (1.24)	15 (.381)
Net weight (w/clamps) – lbs. (kg)	25 (11.34)	23 (10.43)	10 (4.54)	6 (.152)
Shipping weight (w/clamps) – lbs. (kg)	35 (15.88)	31 (14.06)	14 (6.35)	9 (.229)
Mounting clamps (Galvanized steel)	DB365-OS	DB365-OS	DB365-OS	DB365-OS