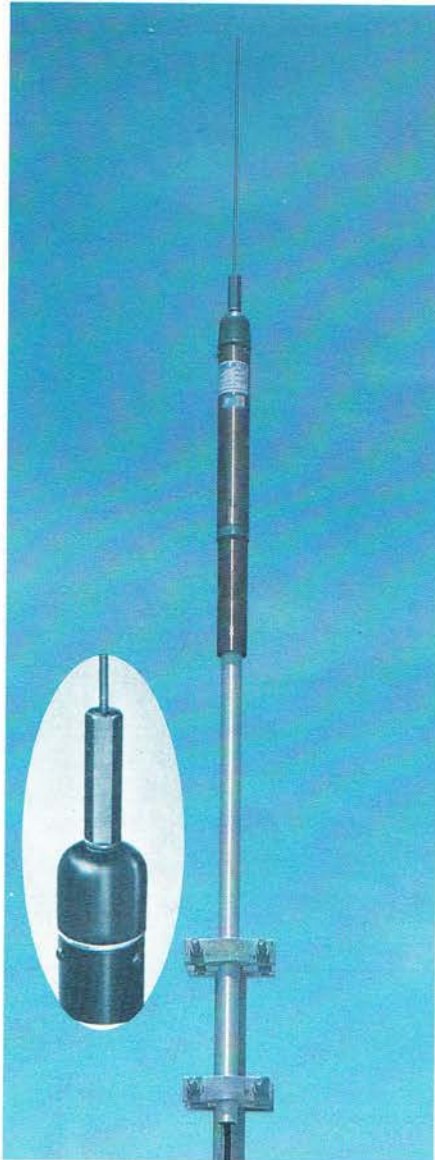


DB205 COAXIAL ANTENNA UNITY GAIN, 33-174 MHz

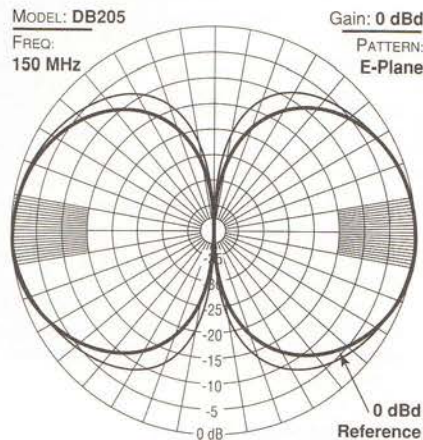


An excellent performer in extreme conditions, the DB205 is a heavy-duty unity gain omni antenna for 33-174 MHz. Models are cut to frequency and tested at the factory; however, uncut models are available.

- **Rugged** - Absorbs severe vibration and withstands rough handling; ideal for oil well drilling and similar applications.
- **Effective Design** - Includes a coaxial half-wave dipole antenna with an upper quarter-wave whip radiator, a center insulator and lower quarter-wave skirt radiator, isolated from the antenna support pipe.
- **Tough Insulator** - Molded of durable epoxy and virtually unbreakable.
- **Moisture Resistant** - A feed-through connector and top mounting stud are molded into the insulator, which also simplifies the replacement of the radiator or feeder cable.
- **Enduring Metals** - The upper radiating element is spring-tempered stainless steel, the lower skirt is non-corroding brass.
- **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 and specify termination if non-standard. Order jumper cable separately, if desired.

Models F and M are UPS Shippable.



Electrical Data

Frequency Ranges - MHz A = 33-50, B = 50-72,
C = 72-88, E = 100-144, F = 144-175
Uncut models: L = 33-50, M = 150-174

Bandwidth 2% of frequency
VSWR 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
attached to end of flexible lead. Other fittings
are available on special order. If UHF connector
is required, an adapter is provided.

Mechanical Data

	35 MHz	50 MHz	75 MHz	160 MHz
Whip radiator	17-7 PH stainless steel rod	17-7 PH stainless steel rod	17-7 PH stainless steel rod	17-7 PH stainless steel rod
Whip insulator	Molded epoxy	Molded epoxy	Molded epoxy	Molded epoxy
Skirt - in. (mm)	Brass, 2 (50.8) diameter	Brass, 2 (50.8) diameter	Brass, 2 (50.8) diameter	Brass, 2 (50.8) diameter
Support pipe - in. (mm)	Galvanized steel, 1 (25.4) dia., 24 (609.6) or more available for mounting	Galvanized steel, 1 (25.4) dia., 24 (609.6) or more available for mounting	Aluminum, 1 (25.4) dia., 24 (609.6) or more available for mounting	Aluminum, 1 (25.4) dia., 24 (609.6) or more available for mounting
Maximum exposed area (flat plate equivalent) - ft ² (m ²)	1.2 (.11)	1.0 (.09)	0.7 (.07)	.3 (.03)
Lateral thrust at 100 mph (161 km/hr) - lbf (N)	48 (213.5)	40 (180)	28 (124.5)	12 (53.4)
Bending moment, 12' (3.66 m) below skirt, at 100 mph (161 km/hr) - ft. lbs. (kg m)	188 (26.02)	135 (18.68)	50 (6.92)	19 (2.63)
Wind rating:				
Survival without ice - mph (km/hr)	over 110 (177)	over 125 (201)	over 125 (201)	over 125 (201)
Survival with .5" (12.7 mm) radial ice - mph (km/hr)	110 (177)	over 125 (201)	over 125 (201)	over 125 (201)
Overall length - in. (mm)	217 (5511.8)	206 (5232.4)	119 (3022.6)	71 (1803.4)
Net weight (w/clamps) - lbs. (kg)	38 (17.24)	36 (16.33)	27 (12.25)	19 (8.62)
Shipping weight (w/clamps) - lbs. (kg)	52 (23.59)	50 (22.68)	35 (15.88)	26 (11.79)
Mounting clamps (Galvanized steel)	DB365-OS	DB365-OS	DB365-OS	DB365-OS