



406 - 512 MHz

Yagi Antenna

DB436, DB437, DB438, 10 dBd gain

Antennas
DIRECTIONAL: YAGI/REFLECTOR

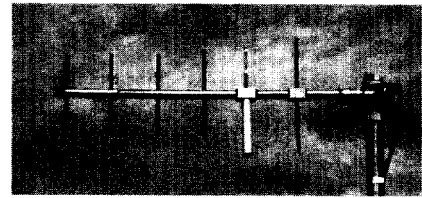
These three heavy duty Yagis give highly directional coverage and good front-to-back ratios.

- **Sturdy Construction** – All three are made of high strength welded aluminum alloys. DB437 and DB438 have a gold anodized finish. On DB438 the connector is an N-Female boom mounted, while the others have N-Male pigtails.
- **Stacked Arrays** – Two antennas provide 13 dBd gain and four antennas 16 dBd gain. Polarization can be vertical or horizontal, and the antennas can be mounted side-by-side or vertically. One wavelength of vertical separation is recommended.
- **Bi-directional Pattern** – Antennas can be mounted on opposite sides of the tower if desired.
- **Lightning Resistant** – Protection provided by direct ground.

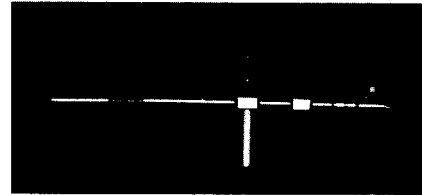
Ordering Information – Use model number for correct frequency. Mounting clamps are included. Order DB5009 for side-by-side mounting, DB5018 for quad. Other size clamps can be special ordered. **Example:** DB436-A for 406-420 MHz. Order jumper cable separately.



DB436



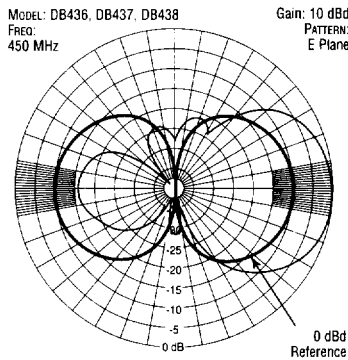
DB437



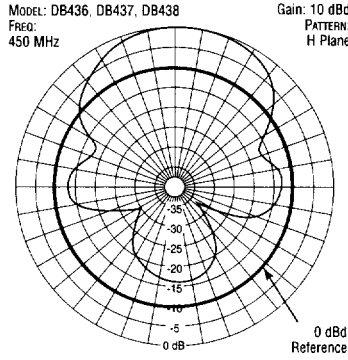
DB438

Gain	Order	Order
10 dBd	1 ea. DB436, DB437, or	1 ea. DB438 Antenna
13 dBd	2 ea. DB436, DB437, or 1 ea. 14436/7-2 Dual Harness	2 ea. DB438 Antenna 1 ea. 14438-2 Dual Harness
16 dBd	4 ea. DB436, DB437, or 2 ea. 14436/7-2 Dual Harness 1 ea. 14436/7-4 Quad Harness	4 ea. DB438 1 ea. 15438-4 complete one piece Quad Harness

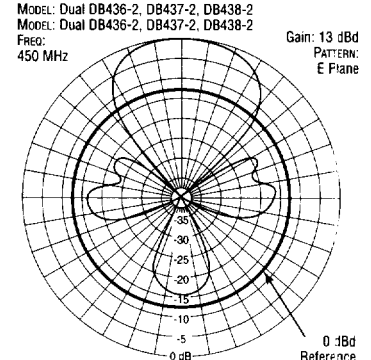
DB436, DB437, DB438 Vertical Pattern



DB436, DB437, DB438 Horizontal Pattern



DB436-2, DB437-2, DB438-2 Horizontal Pattern



Electrical Data	
Frequency Ranges – MHz	A = 406-420, B = 425-445, C = 450-470, D = 470-494, E = 488-512
Bandwidth – MHz	Same as above
VSWR	1.5 to 1 or less
Nominal impedance – ohms	50
Forward gain (over half-wave dipole) – dBd	10
Polarization	Vertical or horizontal
Maximum power input – watts	250
Vertical beamwidth (half power)	44°
Horizontal beamwidth (half power)	60°
Front-to-back ratio – dB	16
Lightning protection	Direct ground
Standard Termination: Captive Type N-Female on DB438. DB436 and DB437 have Type N-Male.	

Mechanical Data	
Support boom (aluminum) – in. (mm)	1 (25.4) OD with .083 (2.108) wall
Elements	Aluminum
Mounting brackets	Galvanized steel
Maximum exposed area (flat plate equivalent) – ft ² (m ²)	.45 (.042) single, .90 (.084)-2, 1.8 (.167)-4
Lateral thrust at 100 mph (161 km/hr) – lbf (N)	18 (80.7) single, 36 (160.1)-2, 72 (320.3)-4
Wind rating:*	
Survival without ice – mph (km/hr)	125 (201)
Survival with .5" (12.7 mm) radial ice – mph (km/hr)	90 (145)
Dimensions (HxL) – in. (mm)	14.5 (368.3)x35 (889) single, 40 (101.6)x35 (889)-2, 90 (2,286)x35 (889)-4
Net weight – lbs. (kg)	7 (3.18) single, 15 (6.8)-2, 30 (13.61)-4
Shipping weight – lbs. (kg)	9 (4.08) single, 18 (8.16)-2, 40 (18.14)-4
Mounting clamps	Stainless steel V-bolts

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