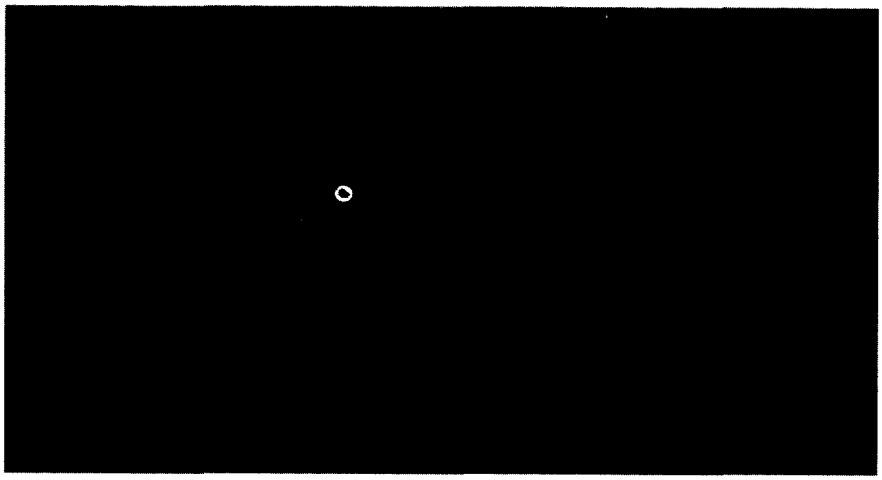
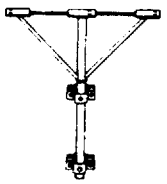
DB286 is a 6-element array that consists of two 3-element Yagis spaced one-half wavelength apart and fed in phase through a cable transformer.

- **Stacked Arrays** – Two antennas provide 13 dBd gain, four antennas 16 dBd gain. A vertical spacing of .75 to 1.0 wavelengths between antennas is recommended.
- **Rugged** – Heavy duty brackets are supplied for larger models, and the size and wall thickness are increased.
- **Easy Mounting** – Clamps are included for top or side mounting to the tower. The 150 MHz model, if side mounted, must clear the tower by 24" (606.9 mm).
- **No Field Tuning** – Adjusted for minimum VSWR at the factory.

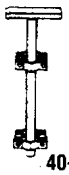
Ordering Information – Use model number for correct frequency and specify termination if non-standard. Order DB286 for a single antenna, DB286-2 for 2-antenna array and DB286-4 for 4-antenna array. Brackets, V-bolts and clamps are included. Other size clamps can be special ordered. **Examples:** DB286-D or DB286-2-D or DB286-4-D. Order jumper cable separately, if desired.



DB286

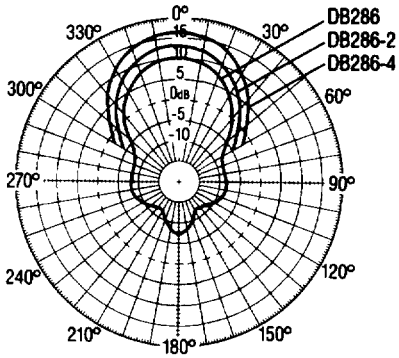


30-40 MHz Y-mount



118-174 MHz Angle mount

40-88 MHz T-mount



DB286 horizontal radiation pattern

Electrical Data	
Frequency Ranges – MHz	A = 30-41, B = 41-46, C = 46-50, D = 72-76, F = 145-150, G = 150-160, H = 160-174
Bandwidth – MHz 3.5% using center frequency of each range	2 to 1 VSWR
Bandwidth – MHz 2% using center frequency of each range	1.5 to 1 VSWR
Nominal impedance – ohms	50
Maximum midband gain (over half-wave dipole) – dBd	10
Maximum power input – watts	500
Horizontal beamwidth (half power)	43°
Front to back ratio – dB	18
Lightning protection	Direct ground
Standard Termination: Captive Type N-Male attached to end of flexible lead.	

Mechanical Data	35 MHz	50 MHz	74 MHz	160 MHz
Cross boom (aluminum) – in. (mm)	2 (50.8)x3 (76.2) with .125 (3.18) wall	2 (50.8)x3 (76.2) with .125 (3.18) wall	2 (50.8)x2 (50.8) with .125 (3.18) wall	2 (50.8)x2 (50.8) with .078 (1.98) wall
Support booms (2) (aluminum) – in. (mm)	2 (50.8)x3 (76.2) with .125 (3.18) wall	2 (50.8)x3 (76.2) with .125 (3.18) wall	1.5 (38.1)x2 (50.8) with .078 (1.98) wall	1.5 (38.1)x2 (50.8) with .078 (1.98) wall
Elements (aluminum) – in. (mm)	.75 (19.05) dia. to 1 (25.4) dia.	.75 (19.05) dia. to 1 (25.4) dia.	.75 (19.05) dia. with .875 (22.23) dia. sockets	.75 (19.05) dia. with .875 (22.23) dia. sockets
Bracket – in. (mm)	Y-mount type, Galv. steel, 2 (50.8) OD	T-mount type, Galv. steel, 2 (50.8) OD	T-mount type Galv. steel, 2 (50.8) OD	Aluminum angle welded to cross boom
Maximum exposed area (flat plate equivalent) – ft^2 (m^2)	8.76 (.814)	4.99 (.464)	3.41 (.317)	1.5 (.139)
Wind rating:*				
Survival without ice – mph (km/hr)	100 (161)	100 (161)	100 (161)	100 (161)
Survival with .5" (12.7 mm) radial ice – mph (km/hr)	75 (121)	75 (121)	75 (121)	75 (121)
Lateral thrust at 100 mph (161 km/hr) – lbf (N)	350 (1558.6)	200 (887.8)	136 (606.7)	60 (266.9)
Height (vertical) – ft. (m)	14 (4.27)	10 (3.05)	7 (2.13)	3 (.91)
Width (horizontal) – ft. (m)	14 (4.27)	10 (3.05)	7 (2.13)	4 (1.22)
Depth (horizontal) – ft. (m)	12 (3.66)	8 (2.44)	6 (1.83)	3 (.91)
Net weight (w/clamps, brackets) – lbs. (kg)	125 (56.7)	82 (37.19)	41 (18.6)	17 (7.71)
Shipping weight (w/clamps, brackets) – lbs. (kg)	175 (79.38)	115 (52.16)	52 (23.59)	32 (14.51)
Mounting clamps	Galvanized steel	Galvanized steel	Galvanized steel	Stainless steel

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