



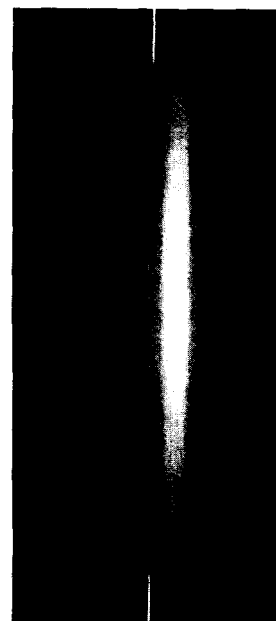
800 - 960 MHz

Diversity Master Dual Antenna Slant 45°

DB854DD, DB855DD, DB858DD

These Diversity Master dual polarized antennas have two arrays in a single radome and provide dual slant polarization of +45° and -45°.

- **Applications** – Broadband arrays permit the antenna to be used as Rx1 and Rx2 or as Rx1 and Tx/Rx2 duplexed.
- **Cost Reduction** – Only one or two antennas mounted vertically are needed per cell sector! No AMPS platform required!
- **Improved Coverage** – Average signal strength is improved and fading is reduced for hand-held cellular phones.
- **Improved Appearance** – Slender mounting poles with antennas require less physical space than other sectorized solutions. This means easier zoning approval!
- **Easy to Mount** – 7/16 DIN connectors are conveniently placed for quick installation on pipes, walls, buildings and other surfaces.
- **Beamtilt** – Mechanical downtilt is optional via DB5083 or DB5083D bracket. Field adjustable electrical downtilt models also available.
- **Pattern Shaping** – Excellent upper side lobe suppression and cross polarization ratio.
- **Trouble Free** – Every antenna is tested for return loss, power rating compliance and the absence of intermodulation generators. No rivets, screws in the RF path.
- **Lightning Resistant** – All metal parts are grounded.
- **Terminations and Mounts** – 7/16 DIN connector is standard. DB380 mounting kit is included.



Model Number	DB855DD65	DB858DD65	DB854DD90	DB855DD90	DB858DD90
Gain: dBd (dBi)	13.6 (15.7)	15.5 (17.6)	10.5 (12.6)	12 (14.1)	13.5 (15.6)
Horizontal Beamwidth	65°	65°	90°	90°	90°
Vertical Beamwidth	12°	7°	18°	12°	7°
Electrical Downtilt Options	0°, Variable	0°	0°	0°, 3°	0°
Length: in. (mm)	60 (1524)	96 (2438)	48 (1219)	60 (1524)	96 (2438)
Width: in. (mm)	12 (305)	12 (305)	12 (305)	12 (305)	12 (305)
Depth: in. (mm)	6 (152)	6 (152)	5 (127)	6 (152)	5 (127)
Weight: lbs. (Kg)	23 (10.4)	34 (15.4)	18 (8.2)	23 (10.4)	38 (17.3)
Frontal Wind Area: ft² (m²)	5.0 (0.46)	8.0 (0.74)	4.0 (0.37)	5.0 (0.46)	8.0 (0.74)
Frontal Wind Load (at 100mph)	200 lbf (890N) 89.8 kp	320 lbf (1423N) 143.8 kp	160 lbf (712N) 71.9 kp	200 lbf (890N) 89.8 kp	320 lbf (1423N) 143.8 kp
Optional Downtilt Bracket	DB5083	DB5083D	DB5083	DB5083	DB5083D

Standard Specifications	SX	SY
Frequency Range (MHz)	806 - 896	870 - 960
VSWR	1.5:1	
Polarization	+45°/-45°	
Port to Port Isolation	30dB	
Front-to-Back Ratio	25 dB, typical	
Max. Input Power	500 Watts	
Max. Wind Speed	125 mph (201 km/h)	
Lightning Protection	All metal parts grounded	
Connector Options	E: 7/16 DIN, N: Type N-Female	

Other configurations available. Please call Customer Service or your Sales Representative

