

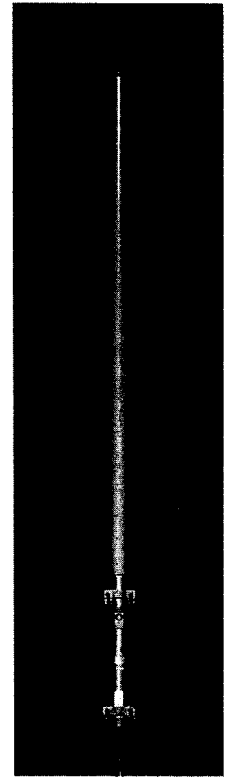
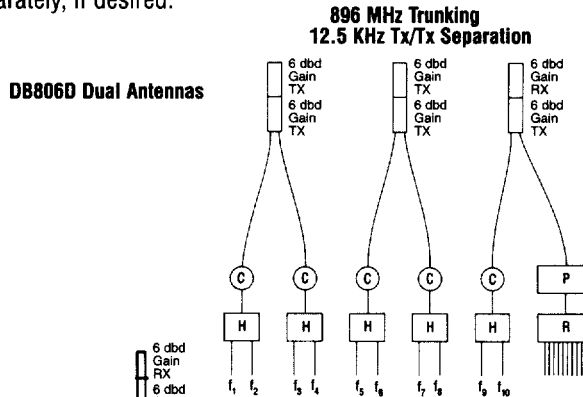
The DB806D has two 6 dBd gain antennas and the DB806TL has three in a single radome with 40 dB isolation. Radiators are enclosed in a Horizon Blue™ radome made of 3" (76.2 mm) OD Minimum-Tip-Deflection® (MTD®) fiberglass, which resists high winds with very little tip deflection.

- **Advantages** – Antennas are ideal to save space on towers or buildings where vertical separation provides an additional 40 dB Tx-to-Tx isolation, when frequency spacings are close.
- **Decrease Losses** – Power losses can be decreased when ferrite hybrid combiners are used to combine transmitters as close in spacing as adjacent channels.
- **For 10 Tx/Rx** – See diagram for how three DB806D antennas combine ten 806-901 MHz trunked transmitters, at 12.5 KHz separation, plus accommodate ten receivers in the 851-960 MHz range.
- **Two Triples** – See other diagram for how two DB806TL antennas combine ten transmitters, at 12.5 KHz separation, using two ferrite hybrids, with total losses of only 5.28 dB.
- **Ready to Install** – DB5087-3 No-Torsion Mount is provided.

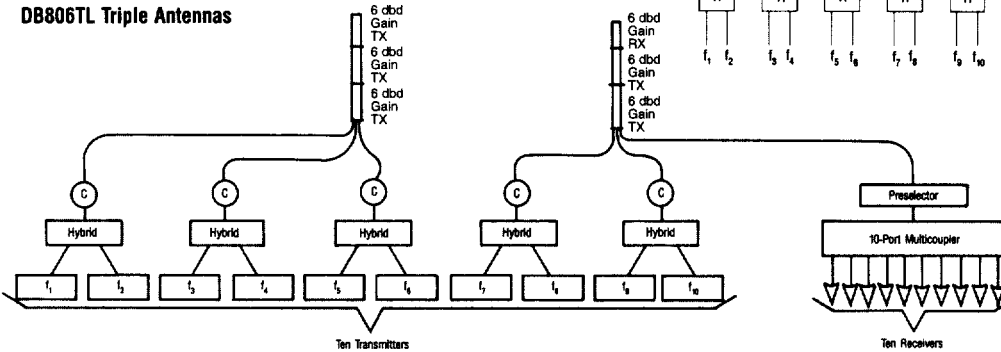
**Ordering Information** – Use model number for correct frequency. Mounts, VAPOR-WRAP® are included. Add "W" suffix for optional weatherhead mount. Order jumper cables separately, if desired.

Frequency Ranges Available – MHz	
DB806D-XT or DB806TL-XT	806-869
DB806D-XC or DB806TL-XC	824-896
DB806D-Y or DB806TL-Y	890-960

For downtilt, available on some models, add (before the D or TL) T3 for 3° or T6 for 6°  
Example: DB806T6TL-XC.



DB806D



C – High Q Cavity for Tx Noise Suppression  
H – Two Channel Hybrid Tx Combiner  
P – Rx Preselector 896-901 MHz  
R – Rx Multicoupler  
f<sub>1</sub> thru f<sub>10</sub> Ascending in 12.5 KHz Steps

Electrical Data		
	DB806D	DB806TL
Frequency Ranges – MHz	806-960	806-960
Bandwidth – MHz	See table	See table
Gain – dBd	6 (each)*	6 (each)*
Beamwidth "E" Plane (half power)	16°	16°
Beamwidth "H" Plane (half power)	Omni	Omni
Maximum power input – watts	350	250
Input impedance – ohms	50	50
VSWR	1.5 to 1	1.5 to 1
Lightning protection Termination	Direct ground Type N-Female (fixed)	Direct ground Type N-Female (fixed)

\*Dual/Triple Antenna configuration gain tolerance is typically ±1.5 - 2 dB

Mechanical Data		
	DB806D	DB806TL
Overall length – ft. (mm)	11.23 (285)	XL, XT 15.8 (4.01) Y 15.4 (397)
Radome OD – in. (mm)	3 (76.2)	3 (76.2)
Radome ID – in. (mm)	2.50 (63.5)	2.50 (63.5)
Mast OD – in. (mm)	2.50 (63.5)	2.50 (63.5)
Mast length – in. (mm)	26 (660.4)	26 (660.4)
Maximum exposed area (flat plate equivalent) – ft <sup>2</sup> (m <sup>2</sup> )	1.87 (0.17)	2.63 (.244)
Lateral thrust at 100 mph (161 km/hr) – lbf (N)	74.9 (333)	105 (467)
Tip deflection at 100 mph (161 km/hr) Bending moment 1" (25.4 mm) below top of mast @ 100 mph (161 kph) ft/lb (N)	1.5° 2.89 (365)	4° 516 (699)
Net weight – lbs. (kg)	27 (12.3)	38 (17.3)
Shipping weight – lbs. (kg)	55 (24.95)	77 (34.93)
Mount	DB5087-3	DB5087-3