



ASP-680

- **Versatile** – Lightweight, yet rugged to cover a majority of base station requirements.
- **Performance** – Minimum 3 dB gain is provided ± 1.75 MHz of center frequency with peak gain of 3.55 dB.
- **Easy to Install** – Tough lightweight ARMORWEAVE® fiberglass and lack of protruding radials assure easiest installation.
- **High Power** – Collinear construction will handle 350 watts of power.
- **Protected** – DC grounded for maximum equipment protection.

Specifications

Electrical

Power	350 watts maximum
Gain	3 dBd minimum, 3.55 dBd maximum at center frequency
Frequency Range	148-150.8 MHz (ASPA680); 150.8-153.0 MHz (ASPB680); 153-156.24 MHz (ASPC680); 157-160 MHz (ASPD680); 161.6-163.5 MHz (ASPE680); 164-167 MHz (ASPF680); 167-171 MHz (ASPG680); 171-174 MHz (ASPH680)
Bandwidth	Specified frequency range
VSWR	Less than 1.5:1
Impedance	.50 ohms nominal
Vertical Beamwidth	.29 degrees
Termination	VB-8 (VAPOR-BLOC®) flexible extension, 24 inches (61 cm), with N male connector

Mechanical

Rated Wind Velocity	105 mi/h (169 km/h)*
Lateral Thrust	27.2 lb (12.3 kg) @ 100 mi/h (161 km/h)
Bending Moment	103.2 ft-lb (14.3 kg-m) @ 100 mi/h (161 km/h)
Equivalent Flat Plate Area	0.68 ft ² (0.6 m ²)
Antenna Length	11.67 ft (3.6 m) at lowest frequency
Weight	4 lb (1.8 kg)
Radiating Elements	³ / ₁₆ inch (4.8 mm) dia. brass tube
Antenna Housing	ARMORWEAVE® fiber glass radome
Support	¹ / ₁₆ inch (49.2 mm) O.D. heavy duty heat treated aluminum pipe
Mounting	Two (2) ASP-616-type heavy-duty mast clamps furnished**

Shipping Information

Weight	14 lb (6.3 kg)
Dimensions	.3 inch (7 cm) O.D. tube x 162 inches (412 cm)

*Calculation of wind survivability does not include damage due to flying debris.
**See catalog sections for mounting brackets, coaxial cable, connectors and other materials required for complete installation.
VAPOR-WRAP® connector sealant is included.

Vertical Field Pattern

