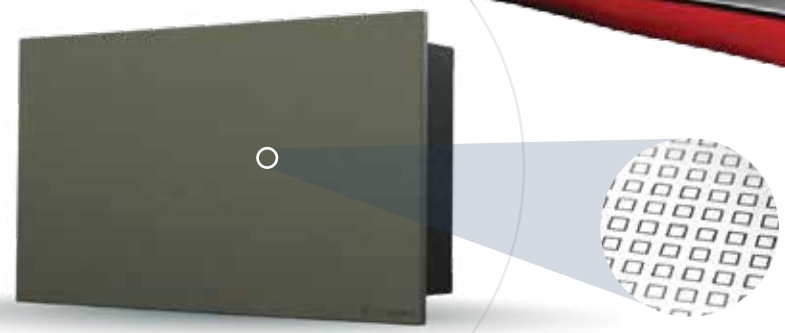
FREESPACE
ELECTROMAGNETIC TECHNOLOGIES

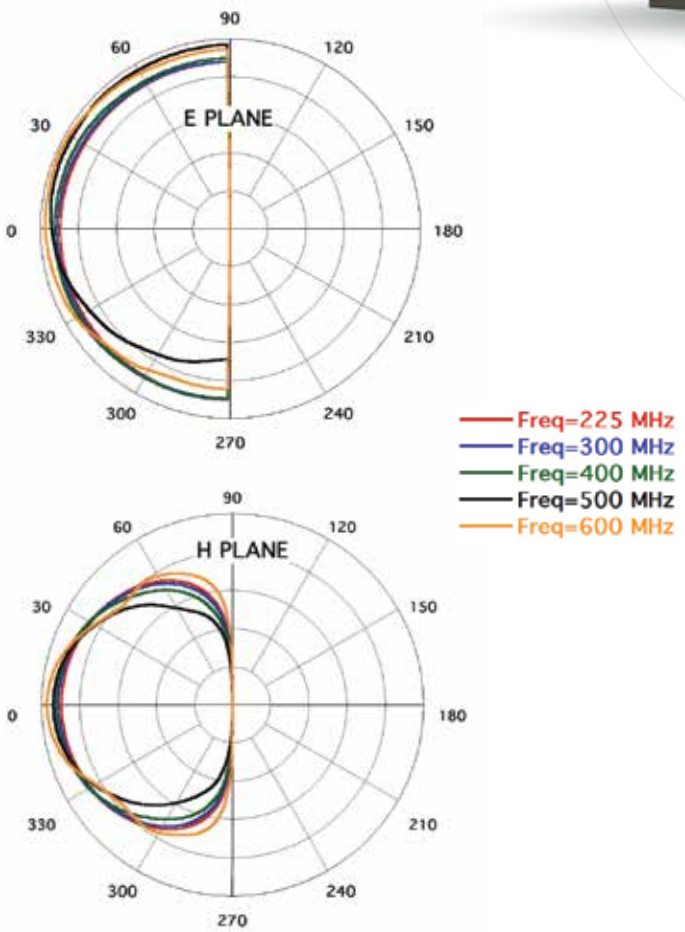
CCB ANTENNA

Conformal Cavity Backed V/UHF antennas for integrated future masts

Suitable for composite and metallic tower

Low RCS (integrated configurable metamaterial)





DESCRIPTION

Broadband UHF/VHF panel antenna with a single main lobe pattern. Optimized for naval V/UHF communication system applications. The antenna is tested according to MIL-STD-810G.

Appropriate to be flush mounted in array configuration with a power diplexer; on dielectric or metallic tower side or on integrated-masts.

- **VSWR < 2:1 FULL BAND**
- **GAIN > 3dBi**
- **MIL-STD-810G COMPLIANT**
- **CUSTOM METAMATERIAL INSIDE**

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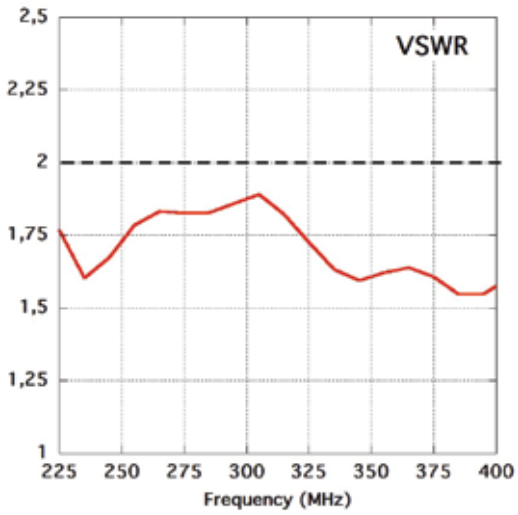
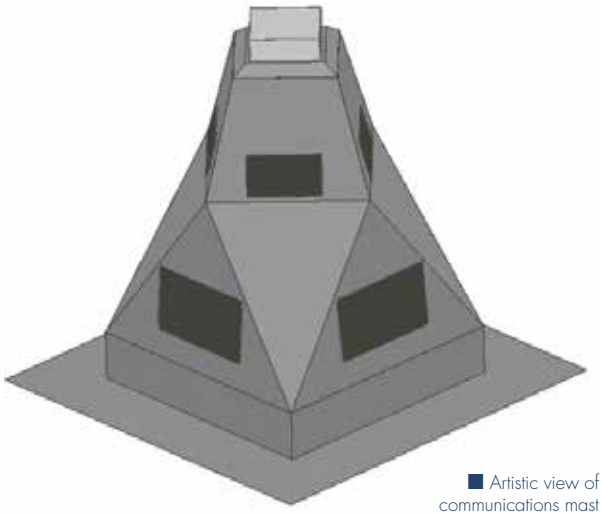
ELECTRICAL SPECIFICATIONS*	
Frequency Band (MHz)	225÷600 UHF (145÷400 VHF)
Impedance (ohm)	50
VSWR	typ. < 2
Polarization	Linear
Gain (dBi)	[4.5÷7.9]
HPBW -3dB **Horizontal Plane (degree)** **Vertical Plane (degree)**	 40 70
Continuous max Power (W)	500
Op. Temp. Range (°C)	-40÷70
Lightning Protection	DC grounded

MECHANICAL SPECIFICATIONS*	
Connector	Nf
Dimensions (mm)	360x645x155 UHF (560x1000x240 VHF)
Weight (Kg)	15 (25)
Vibration/Shock	MIL-STD-810G
Wind Resistance	150 km/h
Material	Aluminium
Flush Mounted	On dielectric support On metallic plane

*Detailed specifications will be provided upon request (**info@free-space.it**)





■ Artistic view of communications mast

■ Example of radiation pattern of communications mast.
Actual pattern depends on final configuration of ship