

REAL-TIME MISSION CRITICAL VIDEO | DATA SOLUTIONS

## **BMA-6-0**

Omni Directional Antenna with Cylindrical Radome

(120106019)



## > Applications

- UAVs
- · Fixed Wing Aircraft
- Rotary Wing Aircraft

## > Benefits

- Low-Profile
- · Use for Transmit or Receive
- Rugged
- Excellent Transmission Characteristics

## > Overview

The BMS Model BMA-6-O Omni-directional Antenna is mounted to the aircraft fuselage. This antenna is of collinear design, which means no ground plane is required. The antenna may be mounted on a nonmetallic surface. The antenna is protected with a radome which is transparent to the RF field generated by the antenna elements. The operating antenna is capable of withstanding airspeeds up to 300 mph. The 6 dBi Omni-directional antenna has an elevation coverage of 30°.

RF Characteristics	
Frequency Range	2.2 - 2.4 GHz
Antenna Gain	6 dBi (+0.5/-0.0)
Polarization	Vertical
Elevation Beamwidth	30°
Azimuth Beamwidth	360°
VSWR	≤ 1.6:1
Input Power	20W Maximum

Physical Characteristics	
Antenna Radome	G-10 Fiberglass 1.625" dia. x 10.70" long (4.13cm x 27.18cm)
Mounting Flange	Aluminum 6061-T6 2.75" dia. x .0.25" thick (6.985cm x 0.635cm)
Weight	<1 lb. (<0.45 kg)
Surface Finish	Epoxy Primer, MIL-PRF-23377 Polyurethane Enamel, Polane S Plus Color: Fed-Std-27925 (White)

Connector	
RF Connector	SMA (f)

Environmental Characteristics		
Operating Temp.	-65°C to +85°C	
Vibration	20g rms, 20 - 2,000 Hz	
Shock	20 g, 11 ms pulse, Any Axis Half-Sine	
Maximum Altitude	40,000 ft. AMSL	
Wind Loading	300 mph (480Km/h) Max.	
Mounting	Outside Aircraft	

