

## Broadband EMC Test Antennas

- 30MHz-6GHz

### Applications:

- Radiated Emissions
- Radiated Immunity
- Pre-Scan/Full Compliance

## Features

SunAR RF Motion JB Series antennas are compact, high-performance instruments designed for EMC emissions and immunity testing. The broadband characteristics of these antennas enable them to operate over a wide frequency range - a must for automated test environments. Innovative design and manufacturing techniques result in long-lasting strength and mechanical integrity. The result is an electrically stable measuring instrument that maintains calibration over extended use.

The antenna boom is made from a custom aluminum extrusion that reduces the number of parts at the nose. The result is a stronger, more stable feedpoint and excellent cross-polarization properties. The unique shape allows for a larger feed cable to be used, which significantly increases the maximum power rating. Dipole elements are permanently attached to the boom by an assembly technique that maintains excellent electrical characteristics for the life of the antenna.

The low-frequency wings are swept forward and turned in at the ends to reduce ground plane coupling while maintaining performance. Each wing is attached with dual compression fittings for true alignment. A tough powdercoat finish with UV inhibitors seals the aluminum structure and protects it from sunlight and moisture.

## Specifications

### JB SERIES ANTENNAS

**FREQUENCY RANGE:** JB1 30-2000MHz  
JB3 30-3000MHz  
JB6 30-6000MHz

**IMPEDANCE:** 50 ohms nominal

**CONNECTOR:** Type N female

**VSWR:** <2:1 above 200MHz

**POLARIZATION:** Linear

**IMBALANCE:** Less than 1 dB

**MAX. POWER:** See curve

**SIZE (LxW):** 51 x 19 in, 130 x 48 cm

**WING SPAN:** 44 in (112 cm)

**WEIGHT:** 10 lbs. (5 kg)

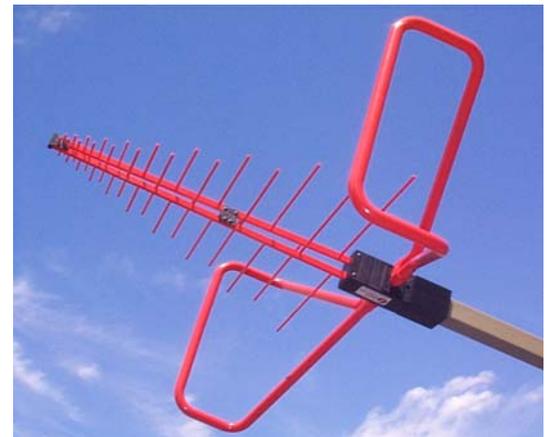
**MOUNTING TUBE:** 22 mm dia. stainless steel

**WING MOUNT:** Dual compression

**FINISH:** Orange powdercoat

### OPTIONS:

- SunAR SNAP! Mount
- Tripod mount
- Carrying case



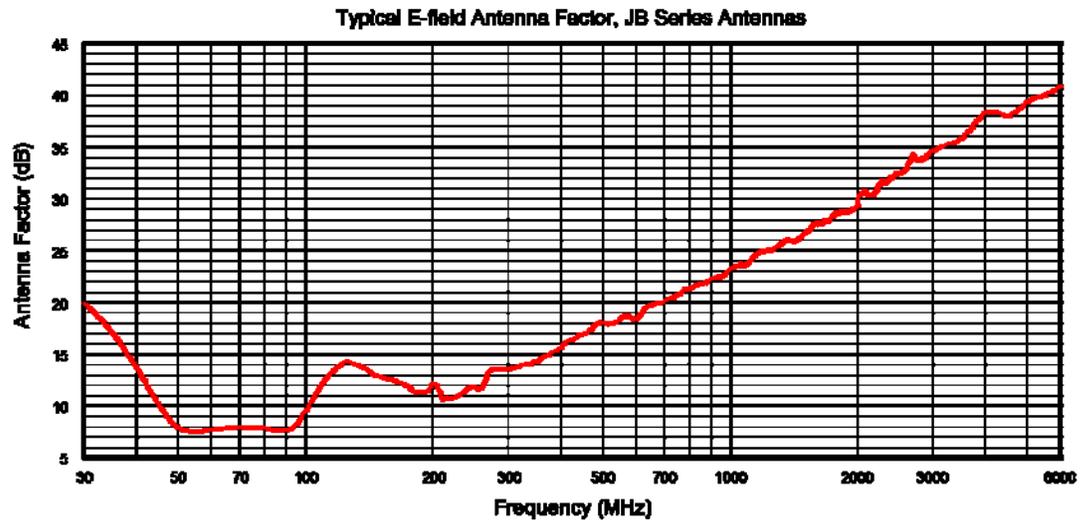
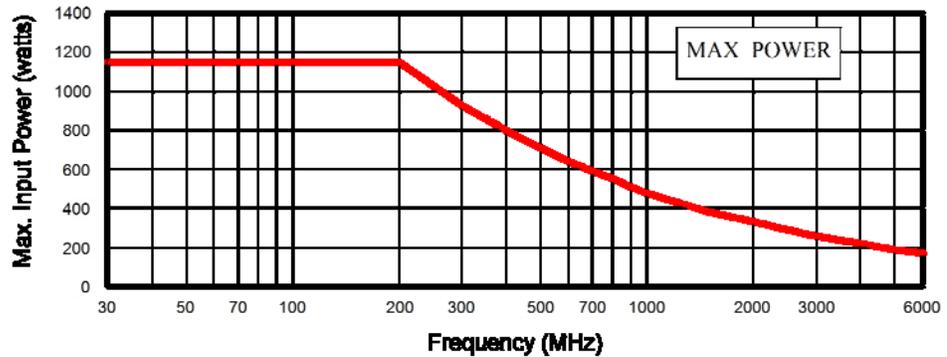
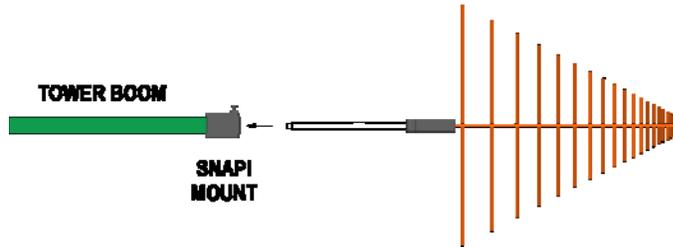
Model JB1

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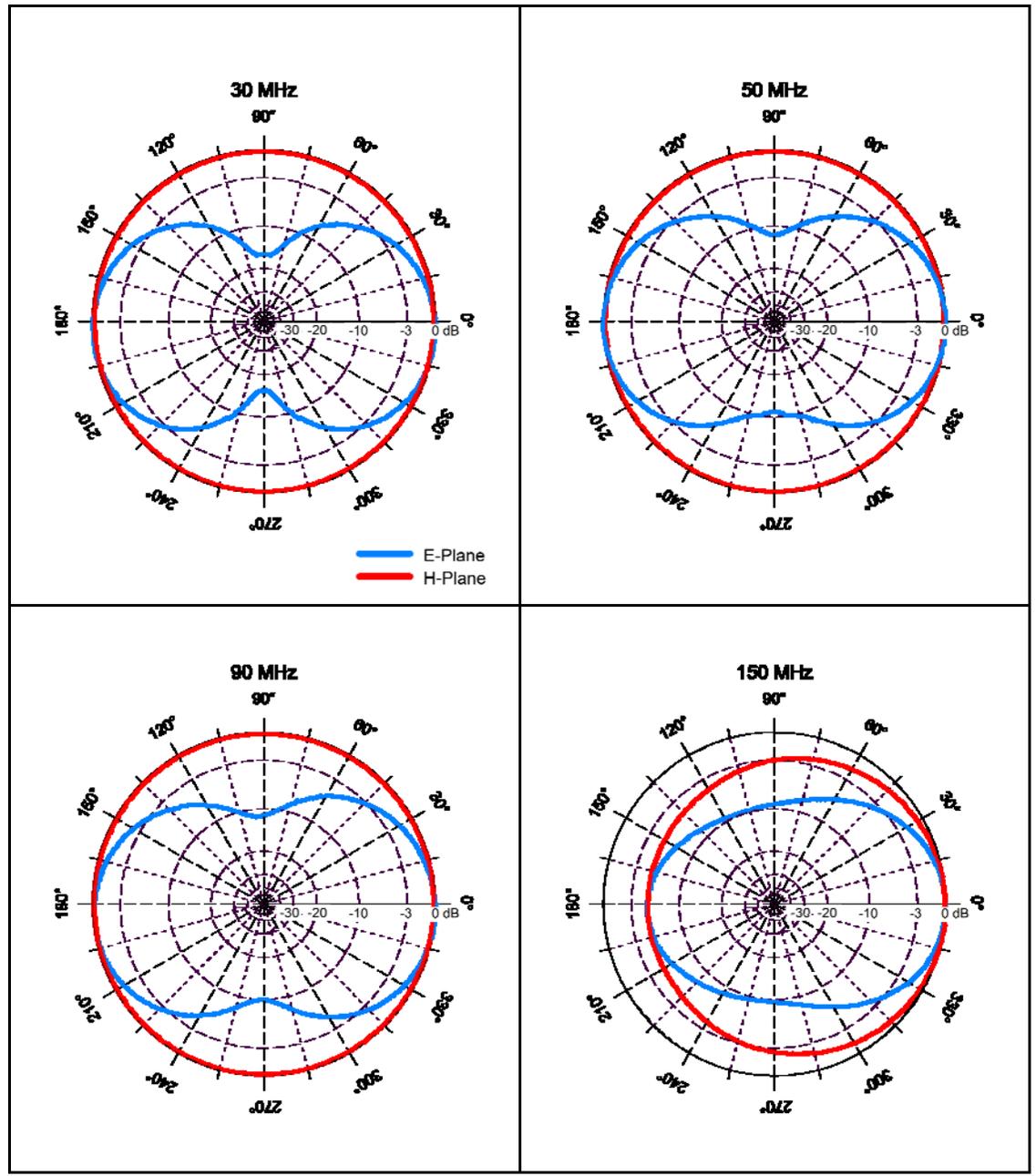
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All SunAR RF Motion antennas have a 22 mm diameter stainless steel rear mounting tube. This configuration enables polarization changes without vertical displacement of the antenna, and minimizes the effect of the RF cable by keeping it well behind the antenna elements.

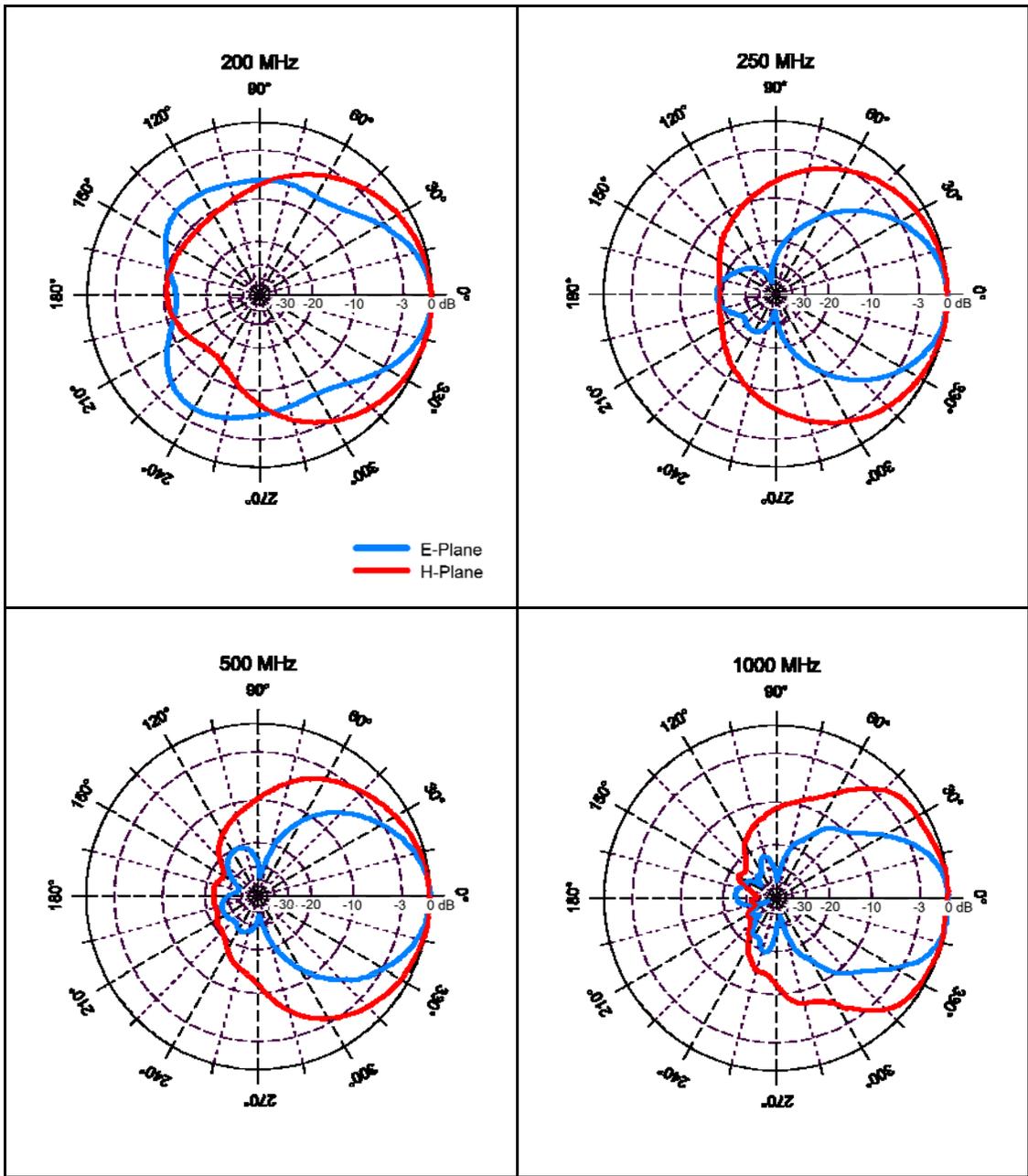
The SunAR RF Motion SNAP! mount provides a secure interface to most antenna positioning towers. It locks the antenna in place, prevents unwanted rotation and facilitates rapid antenna changes.



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