

## EMC Antennas

- 30MHz–6GHz

### Applications:

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

SunAR RF Motion  
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## Features

SunAR RF Motion antennas feature an innovative design philosophy that makes them the practical choice for EMC testing. New manufacturing techniques that simplify assembly and minimize the use of hardware, create an electrically stable measuring instrument that stays in calibration and holds up to the environment.

SunAR RF Motion log-periodic antenna booms are made from a custom aluminum extrusion that reduces the number of parts at the front of the antenna, resulting in a stronger, more stable feedpoint. 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 a construction technique that maintains excellent electrical characteristics for the life of the antenna. A tough powdercoat finish with UV inhibitors seals the aluminum structure and protects it from sunlight and moisture.

Optional A2LA accredited calibration is available. Add CC suffix to model.

### Log-Periodic Antennas:

- LP1: 200 MHz–2 GHz
- LP3: 200 MHz–3 GHz
- LP6: 200 MHz–6 GHz

**GAIN:** 6 dBi typical

**IMPEDANCE:** 50 ohms nominal

**CONNECTOR:** Type N female

**VSWR:** 2:1 max.

**POLARIZATION:** Linear

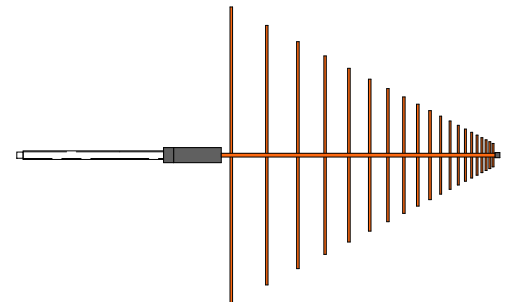
**MAX POWER:** LP1-300 watts CW  
LP3-250 watts CW  
LP6-200 watts CW

**SIZE (LxWxH):** 48 x 3 x 29.5 in 122 x 8 x 75 cm

**WEIGHT:** 8 lbs. (3.6 kg)

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

**FINISH:** Orange powdercoat



Model LP1

### Biconical Antennas, 30–300 MHz

**IMPEDANCE:** 50 ohms nominal

**CONNECTOR:** Type N female

**POLARIZATION:** Linear

**MAX POWER:** BC1-1 watt CW max.  
BC2-50 watts CW max.  
BC5-500 watts CW max.

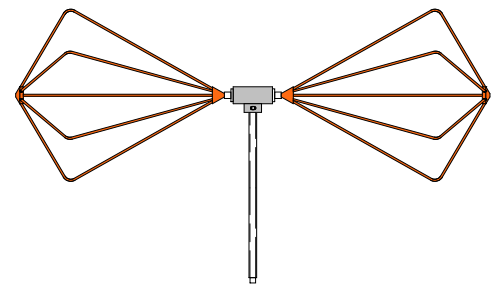
**ELEMENTS:** 20 in. (51 cm) diameter

**SIZE (LxH):** 54 x 32 in, 81 x 137 cm

**WEIGHT:** 5 lbs. (2 kg)

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

**FINISH:** Orange powdercoat



Model BC1

## EMC Antennas

- 30MHz-6GHz

### Specifications

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#### Combination Antenna, 30 MHz-2, 3, 6 GHz

JB1: 30 MHz-2 GHz  
JB3: 30 MHz-3 GHz  
JB6: 30 MHz-6 GHz

**IMPEDANCE:** 50 ohms nominal

**CONNECTOR:** Type N female

**POLARIZATION:** Linear

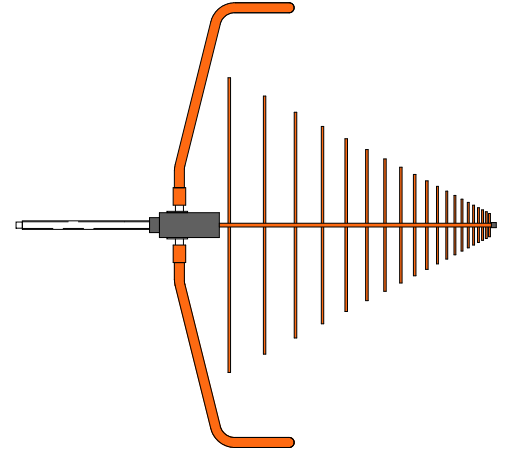
**MAX POWER:** 300 watts CW

**SIZE (LxHxW):** 50 x 44 x 19 in, 127 x 112 x 48 cm

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

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

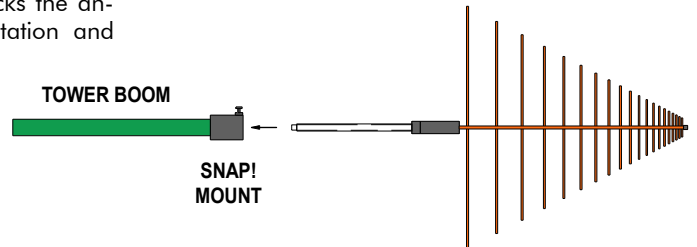
**FINISH:** Orange powdercoat



Model JB1

### Mounting

All SunAR RF Motion antennas have a 22 mm diameter stainless steel rear mounting tube. This configuration enables polarization changes without physical 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.



#### EMC ANTENNA OPTIONS:

- Tripod
- Tripod mount
- SNAP! mount
- Carrying case