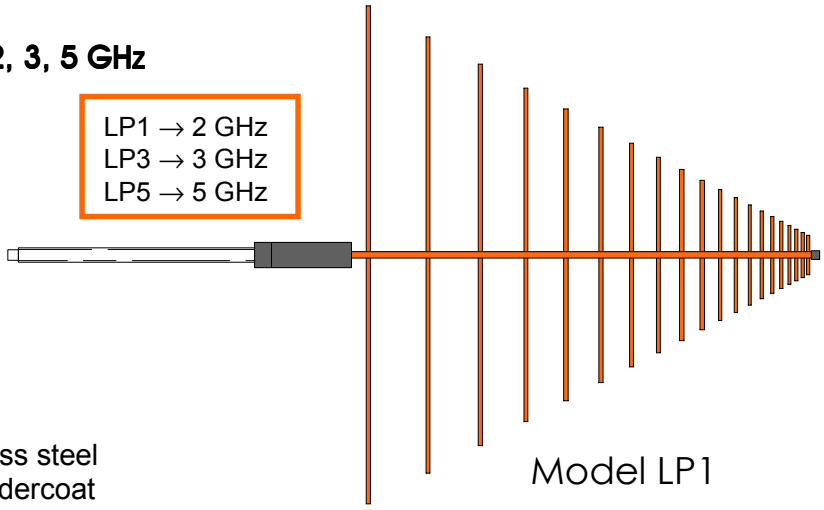
EMC Test Antennas
30 MHz – 5 GHz

Sunol 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.

Sunol 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.

Log-Periodic Antennas, 200 MHz – 2, 3, 5 GHz

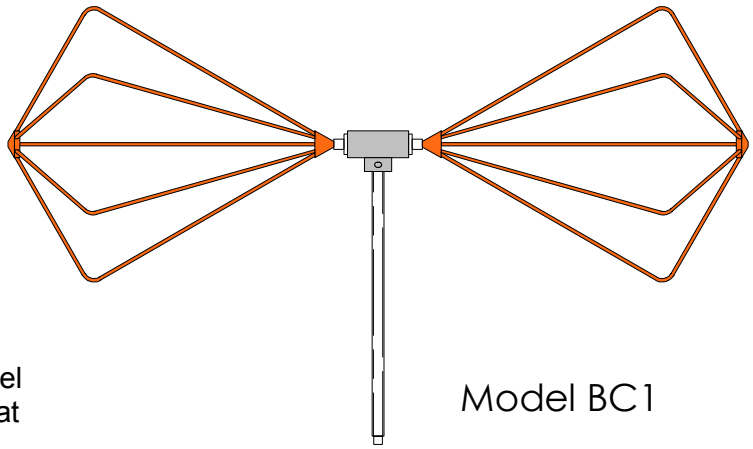
Gain:	6 dBi typical
Impedance:	50 ohms nominal
Connector:	Type N female
VSWR:	2:1 max.
Polarization:	Linear
Max. Power:	300 watts cw
Length:	48 in. (122 cm)
Width:	3 in. (8 cm)
Height (V):	29.5 in. (75 cm)
Weight:	5 lbs. (2 kg)
Mounting Tube:	22 mm dia. stainless steel
Finish:	Sunol orange powdercoat



Model LP1

Biconical Antennas, 30 – 300 MHz

Impedance:	50 ohms nominal
Connector:	Type N female
Polarization:	Linear
Power (**Model BC1**):	1 watt cw max.
Power (**Model BC2**):	100 watts cw max.
Length:	54 in. (137 cm)
Elements:	20 in. (51 cm) diameter
Height:	32 in. (81 cm)
Weight:	5 lbs. (2 kg)
Mounting Tube:	22 mm dia. stainless steel
Finish:	Sunol orange powdercoat

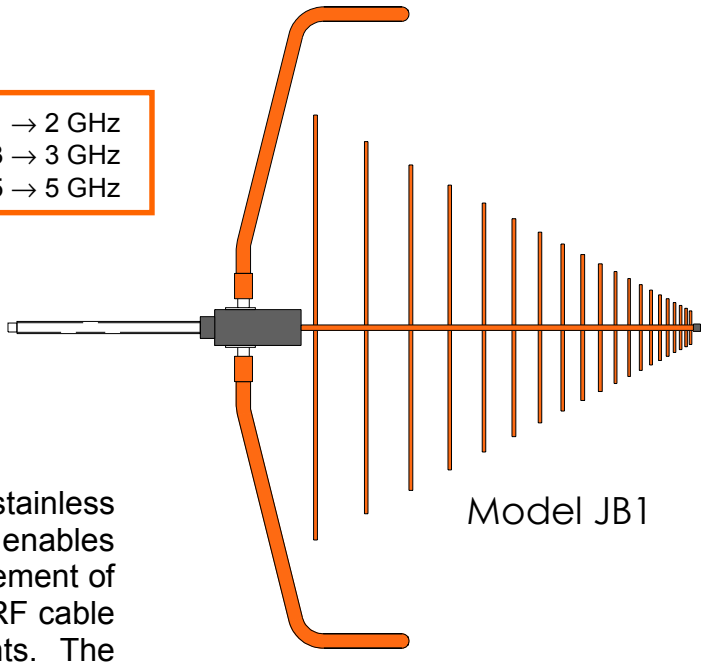

Model BC1

Sunol Sciences Corporation
1051 Serpentine Lane, #100 • Pleasanton, California 94566 • Tel: (925) 485-9260 • Fax: (925) 485-9325
info@sunolsciences.com • www.sunolsciences.com

Combination Antenna, 30 MHz – 2, 3, 5 GHz

Impedance:	50 ohms nominal
Connector:	Type N female
Polarization:	Linear
Max power:	300 watts cw.
Length:	50 in. (127 cm)
Height (V):	44 in. (112 cm)
Width:	19 in. (48 cm)
Weight:	10 lbs. (5 kg)
Mounting Tube:	22 mm dia. stainless steel
Finish:	Sunol orange powdercoat

JB1 → 2 GHz
JB3 → 3 GHz
JB5 → 5 GHz

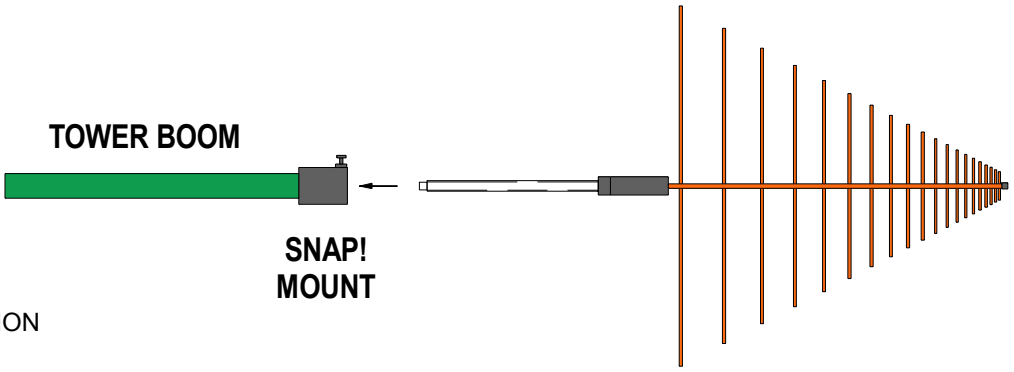


Mounting

All Sunol 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 Sunol 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.

SNAP! MOUNT

- QUICK
- SECURE
- NO TEETERING
- NO UNWANTED ROTATION



Includes individual A2LA accredited calibration

Options

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

Applications

- Radiated emissions
- Radiated immunity
- Pre-scan / Full-compliance testing

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