



SIGNAL ANTENNA SYSTEMS
MODEL: SA LP20SD-14 *Product Data Sheet*

SA LP20SD-14 - High Power EMC Test Log Periodic Antenna: high-power, broadband log-periodic dipole array antenna designed for EMC testing, RF immunity, and industrial environments requiring stable and repeatable field strength over a wide frequency range. Covering 20 – 100 MHz, the antenna provides +6.5 dBi nominal gain with consistent radiation patterns and excellent impedance match across the band.

Engineered for dual / selectable polarization (vertical or horizontal), the SA LP20SD-14 includes a manual 0–15° tilt interface for easy polarization adjustment when mounted on the SA LP Stand-Heavy. With 10 kW CW power handling capability, it supports demanding high-field applications while maintaining mechanical rigidity and electrical precision. This antenna is precision-built from gold Alodine-finished aluminum to ensure durability and long service life in both laboratory and outdoor conditions.

- FEATURES:**
- Broadband 20 – 100 MHz coverage
 - Dual / selectable polarization (V/H)
 - High-power handling up to 10 kW CW
 - Stable gain and beam characteristics
 - Rugged aluminum construction
 - Heavy duty stand with tilt interface



PERFORMANCE CHARACTERISTICS	
RF and Electrical	
Frequency Range	20 –200 MHz
Gain	+6.5 dBi
3-dB Beamwidth (E-Plane)	65° nom
3-dB Beamwidth (H-Plane)	105° nom
Polarization	Linear Selectable (Vertical or Horizontal)
VSWR	2.5:1
Power Handling	10 kWatts CW
MECHANICAL	
Dimensions	13 ft. boom length 13 ft. longest element
Weight	40 lbs
Mounting	To mast at balance point via U-Bolts
Shipping Dimensions	Crate: 6' X 1' x 1'
INTERFACE	
N-Type Female	
ENVIRONMENTAL	
Operating Temperature	-55° to 75°
Altitude	10,000 ft
Humidity	100% Non-Cond.
Wind Survival	80 mph, no ice
NOTES	
SAS end loading used on longest elements	