



# SIGNAL ANTENNA SYSTEMS

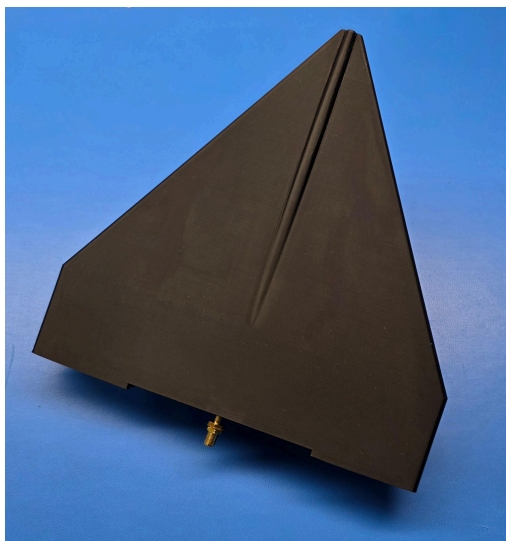
## MODEL: LPCB-500606-01

Product Data Sheet

LPCB-500606-01 Log Periodic Antenna is a compact, PCB-based broadband log-periodic dipole array (LPDA) engineered for wideband RF coverage, stable directional performance, and cost-effective deployment. Designed for spectrum monitoring, surveillance, RF testing, directional communications, and industrial applications, the antenna delivers predictable gain, consistent radiation patterns, and repeatable electrical performance across a broad frequency range. Operating from 500 to 6,000 MHz, the LPCB-500606-01 provides +6.5 dBi nominal gain, controlled beamwidth, and excellent impedance match ( $VSWR \leq 2.0:1$ ) over the band. Its lightweight PCB construction and rugged mechanical design enable reliable operation in demanding environments while maintaining low profile, low mass, and economical system integration.

### FEATURES:

- Broadband 100- 6000 MHz coverage
- Stable gain and beam characteristics
- Lightweight and Economical
- Environmentally Ruggedized



### PERFORMANCE CHARACTERISTICS

<b>RF and Electrical</b>	
Frequency Range	5,00 –6,000 MHz
Gain	+6.5 dBi (typ)
Polarization	Linear (Vertical or Horizontal)
3-dB Beamwidth (E-Plane)	70° nom
3-dB Beamwidth (H-Plane)	110° nom
Front-to-Back Isolation	> 15 dB
VSWR	2.0:1
Power Handling	25 Watts CW
<b>MECHANICAL</b>	
Dimensions	8.6"x8.5"x1.35"
Weight	0.5 lbs
Mounting	Mast Mount via U-Bolts Flange Mount 4x 8-32 Screws
Interface	SMA Female
<b>ENVIRONMENTAL</b>	
Operating Temperature	-30° to 65°
Humidity	100% Non-Cond.
Wind Survival	80 mph
<b>NOTES</b>	

