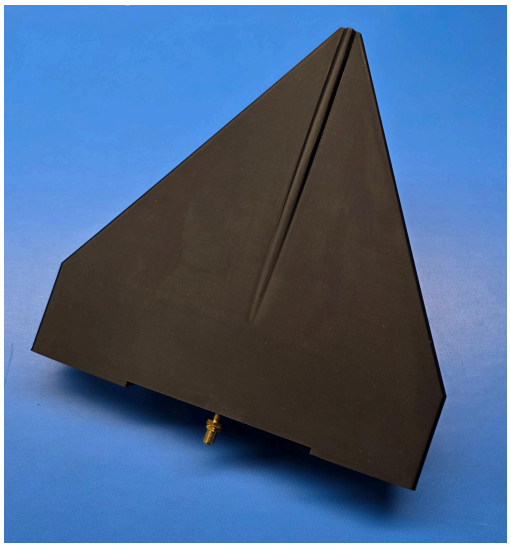
SIGNAL ANTENNA SYSTEMS
MODEL: LPCB-500606-01

Product Data Sheet

LPCB-425606-01 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 **425 to 6,000 MHz**, the LPCB-500606-01 provides **+6.5 dBi nominal gain**, controlled beamwidth, and **excellent impedance match (VSWR ≤ 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 425- 6000 MHz coverage
- Stable gain and beam characteristics
- Lightweight and Economical
- Environmentally Ruggedized



PERFORMANCE CHARACTERISTICS	
RF and Electrical	
Frequency Range	425 – 2,500 MHz 5,500 – 6,000
Gain	+6.5 dBi (typ)
Polarization	Linear (Vertical or Horizontal)
3-dB Beamwidth (E-Plane)	70^0 nom
3-dB Beamwidth (H-Plane)	110^0 nom
Front-to-Back Isolation	> 15 dB
VSWR	3.0:1 max 425 - 500 MHz 2.0:1 max above 500 MHz
Power Handling	25 Watts CW
MECHANICAL	
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
ENVIRONMENTAL	
Operating Temperature	-30° to 65°
Humidity	100% Non-Cond.
Wind Survival	80 mph
NOTES	

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