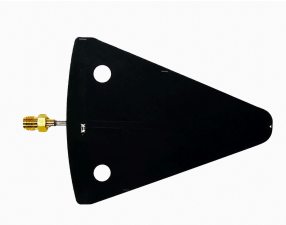
50 kHz–3 GHz, 7 dBi Log-Periodic Directional Antenna



LCDLPA-50K-3000-7 is a compact log-periodic directional antenna for RF reception and transmission from 50 kHz to 3 GHz. The source specifies 7 dBi gain, 50 Ω impedance, VSWR strictly below 2 and a maximum power of 50 W for wideband RF testing, spectrum monitoring and laboratory measurements.

The antenna measures 120 × 77 mm and uses an SMA female connector with external thread and inner socket. Select the mounting arrangement for the actual test setup. Polarization, beamwidth and environmental limits are not specified in this source; confirm these details when they affect system integration.

Electrical specifications

Parameter	Value	Unit
Frequency range	0.05–3000	MHz
Antenna gain	7	dBi
VSWR	<2	-
Input impedance	50	Ω
Maximum input power	50	W
Radiation direction	Directional	-
Application	RF / microwave / UWB reception and transmission	-

Mechanical and environmental specifications

Parameter	Value	Unit
Antenna connector	SMA female, external thread with inner socket	-
Antenna dimensions	120 × 77	mm
Antenna type	Compact log-periodic antenna	-
Installation method	Adapt to the actual application setup	-

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.