

Powertec 4G-5G Wideband LPDA Antenna, 698 to 4000 MHz, 4.3-10 Female

SKU: ANT-PT-00021

MPN: LLP-6940-7.432

Barcode: 9337692005022

Description

The LLP-6940-7 mini log periodic antenna is designed for outdoor applications requiring wideband operation, medium gain, with a compact form-factor. It operates across a frequency range of 698 MHz to 4000 MHz, making it suitable for various telecommunications applications, including cellular networks, wireless broadband, and other RF communication systems. Its vertical polarisation enhances its ability to maintain signal integrity in diverse environmental conditions.

With a VSWR of less than 2.0:1 across its range, the antenna ensures efficient power transfer and minimal signal reflection. The construction features a UV-stabilised ABS plastic radome, offering resilience in harsh weather conditions, with an operational temperature range from -40 °C to 65 °C.

The antenna's 4.3-10 female connector ensures secure and weatherproof connectivity. It is lightweight at 1.1 kg and compact, facilitating easy installation on poles with diameters...

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RF Specification

| | | | |
|-------------------|----------|------------------|--------------|
| Start Frequency: | 698 MHz | Polarisation: | Vertical (V) |
| Stop Frequency: | 4000 MHz | Input Impedance: | 50 |
| Max. Input Power: | 50 W | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|---------------|------------|--------------|--------|
| 1 | 4.3-10 Female | Straight | PSF-402 | 300 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth | Elevation | F/B Ratio |
|-------------|------------|-----------|---------|---------|-----------|-----------|
| 698 MHz | 960 MHz | 9.5 dBi | < 2:1 | 90° | 66° | > 15 dB |
| 1710 MHz | 2700 MHz | 11 dBi | < 1.5:1 | 75° | 58° | > 12 dB |
| 3300 MHz | 4000 MHz | 11.5 dBi | < 1.8:1 | 54° | 42° | > 15 dB |

Physical Specification

| | | | |
|-----------------------------|---------------------------|-------------|------------------------|
| Subtype: | Log Periodic Dipole Array | Dimensions: | 440x205x60 |
| Input Ports: | 1 | Materials: | ABS Plastic, Aluminium |
| MIMO: | 1x1 SISO | Mounting: | Pole Clamp 30 to 52 mm |
| Min. Operating Temperature: | -40 °C | Weight: | 1.1 kg |
| Max. Operating Temperature: | 65 °C | | |

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