

External Wireless Dipole Desktop LTE Antenna



DBS6950 EXTERNAL WIRELESS DIPOLE DESKTOP LTE ANTENNA

The DBS6950 Antenna is designed for LTE (Long Term Evolution) applications, which provides a new high performance air interface for cellular mobile communication systems. It is the last step toward the 4th generation (4G) of radio technologies, which is designed to increase the capacity and speed of mobile telephone networks. Laird Technologies' external desktop type antennas feature wide bandwidth as that covers the 700 MHz to 960 MHz and 1700 MHz to 5000 MHz frequency bands. The antenna is the ideal choice when multiple band widths are required in various regional and global applications. The desktop antenna is designed with a minimal detuning effect when placed on a ground plane.

FEATURES

- Covers 698 - 960 MHz and 1700 - 5000 MHz frequency bands
- Operates simultaneously in more than eleven frequency bands supporting LTE, cellular, Quadband GSM+UMTS / 3G, AWS, WLAN, WISP, WIMAX and Public Safety Radio.
- Coaxial cable pigtail with various connector choices
- Omnidirectional gain patterns
- Conformance to RoHS

MARKETS

- LTE
- GSM 850 / 900
- GSM 1800 / 1900
- UMTS / WCDMA (3G)
- 802.11 b/g/n WLAN application
- Bluetooth® devices
- WiMAX MMDS / 3.5 GHz
- Public Safety Radio

TYPICAL ELECTRICAL SPECIFICATIONS

| PARAMETER | SPECIFICATION |
|--------------------|---|
| Frequency | 698 – 862 MHz 824 – 894 MHz 880 – 960 MHz 1710 – 1880 MHz 1850 – 1990 MHz 1920 – 2170 MHz 2300 – 2400 MHz 2400 – 2500 MHz 2500 – 2690 MHz 3400 – 3600 MHz 4940 – 4990 MHz |
| Gain | 3.0 dBi (698 – 960 MHz) 4.9 dBi (1700 – 5000 MHz) |
| Average Efficiency | 73% (698 – 960 MHz) 68% (1700 – 5000 MHz) |
| Polarization | Vertical, Omnidirectional Radiation Pattern |
| Nominal Impedance | 50 Ohms |
| VSWR | < 2.5 : 1 (698 – 960 MHz) < 2 : 1 (1700 – 5000 MHz) |
| Size | 175 x 34 mm |

Note: There will be some variance of spec with different type of cable, different length of cable and connector. Contact Laird for detail specification.

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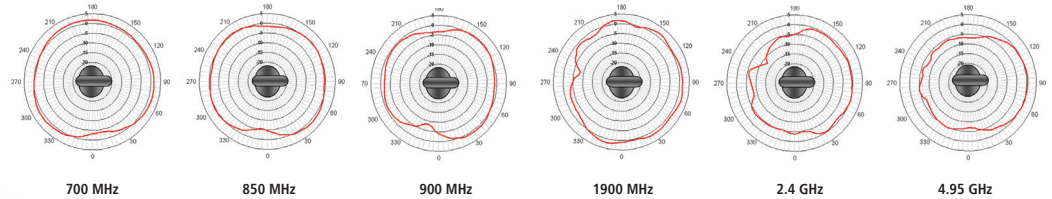
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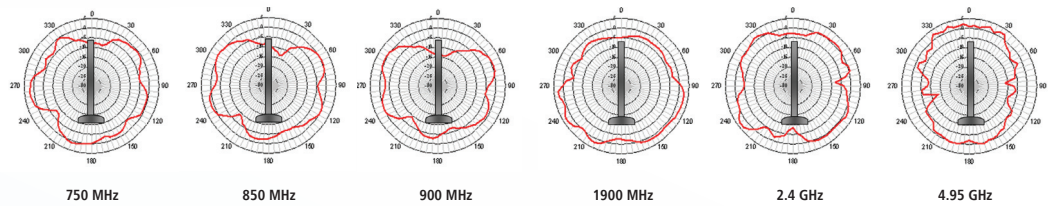
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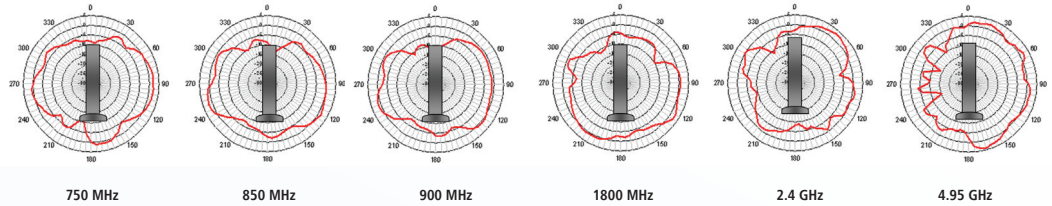
TYPICAL RADIATION PATTERNS (AZIMUTH PLANE – THETA 90°)



TYPICAL RADIATION PATTERNS (ELEVATION 0° PLANE – PHI 0°)



TYPICAL RADIATION PATTERNS (ELEVATION 90° PLANE – PHI 90°)



CABLES AND CONNECTORS

| PART No. | CABLE | CONNECTOR |
|------------------|-------------|-----------|
| DBS6950D1-50MMCP | 50cm, RG174 | MMCX |

ANT-DS-DBS6950 1210

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