



The Laird Connectivity S2451DBT is a dual-band six-element omnidirectional antenna for use in 802.11n MIMO applications. Three ports are designed to operate at 2.4 GHz and three ports are designed to operate at 5 GHz. Housed in a compact, low-profile radome, each of the six MIMO antenna elements is connected to the WLAN access point via a low loss, plenum-rated coax pigtail.

The radiation patterns are uniform and symmetrical, providing high levels signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.1-5.9 GHz bands. A wide choice of coax lengths and connector types are available.

### FEATURES AND BENEFITS

- Vertically-polarized omnidirectional
- Compact size
- 2.4-2.5/5.1-5.9 GHz, full 802.11a/b/g/n wideband performance
- Choice of pigtail length and connector type

### APPLICATIONS

- Enterprise WLAN networks
- Campuses, hospitals, airports, and other places
- MIMO applications

### ELECTRICAL SPECIFICATIONS

|                                 |                    |           |
|---------------------------------|--------------------|-----------|
| Model Name                      | S2451DBT           |           |
| Number of Ports                 | 6                  |           |
| Operating Frequency (MHz)       | 2400-2500          | 5150-5850 |
| VSWR – Max                      | 2:1                |           |
| Gain (dBi)                      | 2.0                |           |
| Max Power - Ambient 25°C (W)    | 5                  |           |
| Polarization                    | Linear, 6 Vertical |           |
| Vertical Plane 3 dB Beamwidth   | 75°                | 42°       |
| Horizontal Plane 3 dB Beamwidth | Omnidirectional    |           |

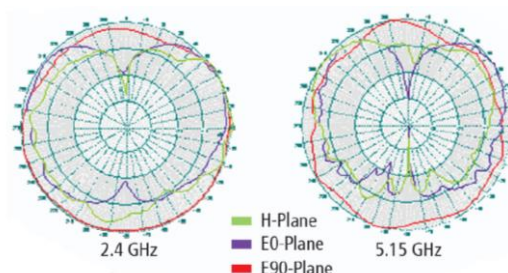
### MECHANICAL SPECIFICATIONS

|                          |                            |
|--------------------------|----------------------------|
| Dimensions – mm (inches) | 219.0 x 44.0 (8.62 x 1.73) |
| Weight – kg (lbs.)       | 0.7 (1.5)                  |
| Mounting                 | Ceiling suspended tile     |
| Radome Material          | ASA                        |

### ENVIRONMENTAL SPECIFICATIONS

|                                 |                              |
|---------------------------------|------------------------------|
| Operating Temperature – °C (°F) | -30 to +70°C (-22 to +158°F) |
| Storage Temperature – °C (°F)   | -30 to +70°C (-22 to +158°F) |
| Material Substance Compliance   | RoHS                         |

### RADIATION PATTERNS



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