



Laird's unique Phantom antenna operates simultaneously in the 806-896 MHz, 1850-1990 MHz, and 2500-2700 MHz bands. The mechanically robust design is suitable for both indoor and outdoor applications. With wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications, the antenna can be used in both ceiling mount and surface mount applications.

The industry standard NMO mounting socket mates with all Laird magnetic, trunk lid, and hole mount configurations. A threaded permanent stud mount model is also available for vandal resistant mounting on brackets, panels, ceilings, or any other type of housing.

## FEATURES AND BENEFITS

- Mechanically-robust for both indoor and outdoor applications
- Suitable for high band 4G applications
- Phantom antenna outperforms a 3-dBi whip in many applications.

## ELECTRICAL SPECIFICATIONS

|                              | 806-896         | 1850-1990 | 2500-2700 |
|------------------------------|-----------------|-----------|-----------|
| Operating Frequency (MHz)    |                 |           |           |
| Peak Gain (dBi)              | 4.0             | 3.5       | 3.0       |
| Efficiency – avg (%)         | 89              | 73        | 77        |
| Efficiency – max (%)         | 93              | 74        | 82        |
| VSWR (max)                   | 2.0:1           |           |           |
| Return Loss (dB) – max       | -10             |           |           |
| Polarization                 | Vertical        |           |           |
| Pattern                      | Omnidirectional |           |           |
| Nominal Impedance (Ohms)     | 50              |           |           |
| Max Power - Ambient 25°C (W) | 100             |           |           |

## MECHANICAL SPECIFICATIONS

|                                              |                          |
|----------------------------------------------|--------------------------|
| Dimensions – diameter x height – cm (inches) | 3.65 x 8.38 (1.44 x 3.3) |
| Color                                        | Black or white available |
| Radome Material                              | SABIC Lexan              |
| Cable and Mount                              | MB195 (sold separately)  |

## ENVIRONMENTAL SPECIFICATIONS

|                                 |                              |
|---------------------------------|------------------------------|
| Operating Temperature – °C (°F) | -40 to +85°C (-40 to +185°F) |
|---------------------------------|------------------------------|

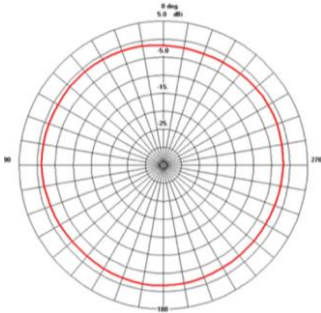
## CONFIGURATION

| PART NUMBER     | COLOR RADOME | HEIGHT           | WEIGHT CONNECTOR  |
|-----------------|--------------|------------------|-------------------|
| TRA8063M3NB-001 | Black        | 8.4 cm (3.3 in.) | 0.15 lbs NMO      |
| TRA8063M3PB-001 | Black        | 8.4 cm (3.3 in.) | 0.25 lbs N Female |
| TRA8063M3NW-001 | White        | 8.4 cm (3.3 in.) | 0.15 lbs NMO      |
| TRA8063M3PW-001 | White        | 8.4 cm (3.3 in.) | 0.25 lbs N Female |

**Permanent Mounting Options:** The letter "P" in the above part numbers indicates a permanent mounting option

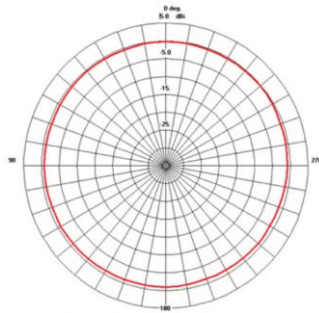
RADIATION PATTERN

850 MHz

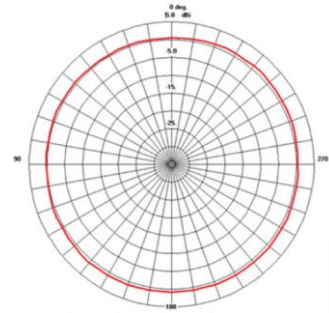


Azimuth

1920 MHz

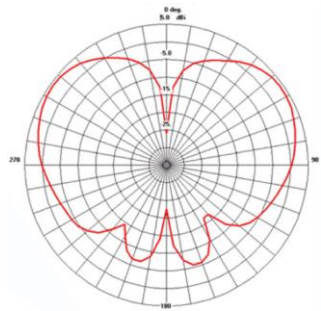


2700 MHz

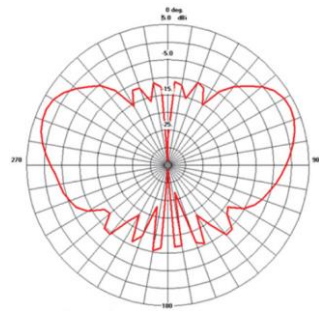


Elevation

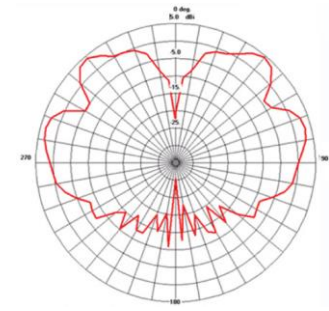
850 MHz



1920 MHz



2700 MHz



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