



### 4G/3G PHANTOM<sup>®</sup> ANTENNA IDEAL FOR 700/806/850/1800/1900/2100/2300/2500/2600 MHZ APPLICATIONS

The Laird Phantom antenna operates simultaneously in the 698-960 MHz and 1700-2700 MHz bands, making it ideal for 4G/3G applications. 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 is ideal for both ceiling 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 kind of housing.

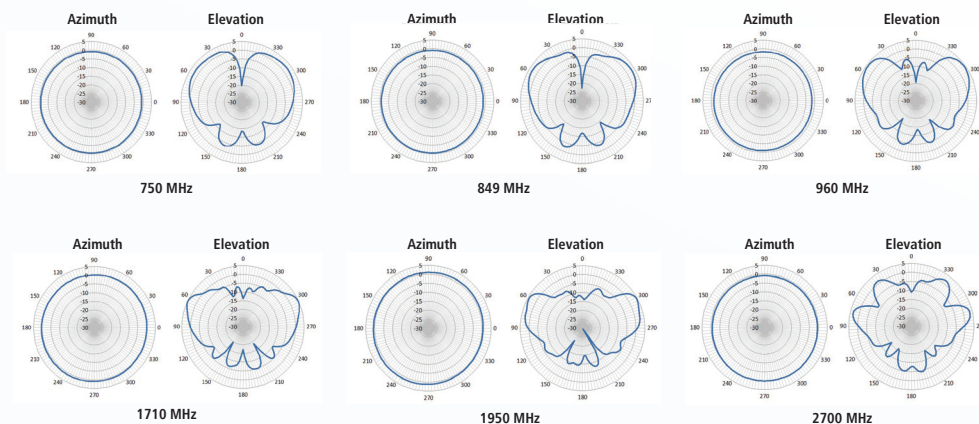
#### FEATURES

- Mechanically robust for both Indoor/Outdoor applications
- Applicable for both 3G and 4G application
- Domestic LTE 700 band and Global LTE 2600 band
- WiMAX 2300/2500/2600 bands
- Domestic Cellular and Global GSM
- Phantom out-performs a 3 dBi whip in many applications

#### MARKETS

- Public Safety
- Cellular
- M2M
- Utilities
- Data transport
- Transportation
- IBW

#### ANTENNA PATTERNS



### SPECIFICATIONS

| ELECTRICAL              |                                  |
|-------------------------|----------------------------------|
| Frequency Range         | 698-960 MHz, 1710-2700 MHz       |
| VSWR                    |                                  |
| 698-806 MHz             | < 2.5: 1.0                       |
| 806-960 MHz             | < 2.0: 1.0                       |
| 1710-2110 MHz           | < 2.0: 1.0                       |
| 2110- 2170 MHz          | < 2.5: 1.0                       |
| 2300- 2700 MHz          | < 2.0: 1.0                       |
| Nominal Peak Gain       |                                  |
| 698-960 MHz             | 3.5 dBi                          |
| 1710-1990 MHz           | 5.5 dBi                          |
| 2100-2700 MHz           | 4.6 dBi                          |
| Average Efficiency      |                                  |
| 698-960 MHz             | 90% (max: 96%)                   |
| 1710-1990 MHz           | 91% (max: 95%)                   |
| 2100-2700 MHz           | 80% (max: 86%)                   |
| Polarization            | Vertical                         |
| Pattern                 | Omnidirectional                  |
| Input Impedance         | 50 $\Omega$                      |
| Maximum Power           | 100 W                            |
| Cable & Mount           | MB195 (Sold Separately)          |
| Terminations            | NMO or P-Mount w/Type N(f)       |
| MECHANICAL              |                                  |
| Color                   | Black or white available         |
| Radome Material         | High Heat ABS                    |
| Dimensions (Ht. x dia.) | 3.3" (8.38 cm) x 1.44" (3.65 cm) |
| Operating Temperature   | -40° C to 85°C                   |

### MODEL AND ORDERING INFORMATION

| MODEL           | DESCRIPTION    | COLOR | RADOME HEIGHT | WEIGHT CONNECTOR   |
|-----------------|----------------|-------|---------------|--------------------|
| TRA6927M3PB-001 | 4G/3G Phantom® | Black | 3.30"         | 0.38 lbs Type N(f) |
| TRA6927M3NB-001 | 4G/3G Phantom® | Black | 3.30"         | 0.28 lbs NMO       |
| TRA6927M3PW-001 | 4G/3G Phantom® | White | 3.30"         | 0.38 lbs Type N(f) |
| TRA6927M3NW-001 | 4G/3G Phantom® | White | 3.30"         | 0.28 lbs NMO       |

#### Permanent Mounting Option:

The letter "P" in the above part numbers indicates a permanent mounting option

ANT-DS-TRA6927M3 0515

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