



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### TRI-BAND PHANTOM<sup>®</sup> ANTENNA IDEAL FOR 806/850/1900/2600 MHZ APPLICATIONS

Lairds' unique Phantom<sup>®</sup> 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 Lairds' 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

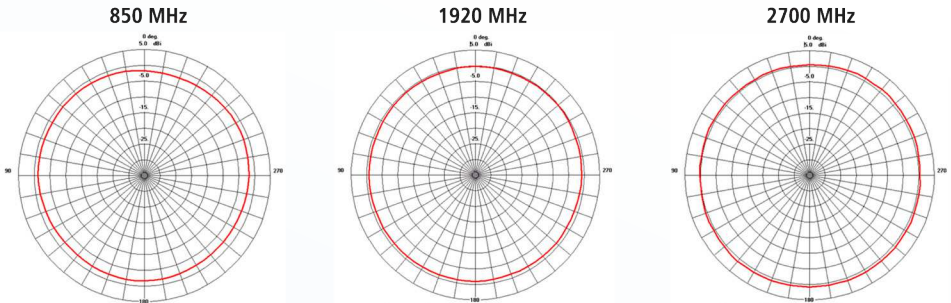
- Mechanically robust for both Indoor/Outdoor applications
- Suitable for high band 4G application
- Phantom antenna outperforms a 3 dBi whip in many applications

#### MARKETS

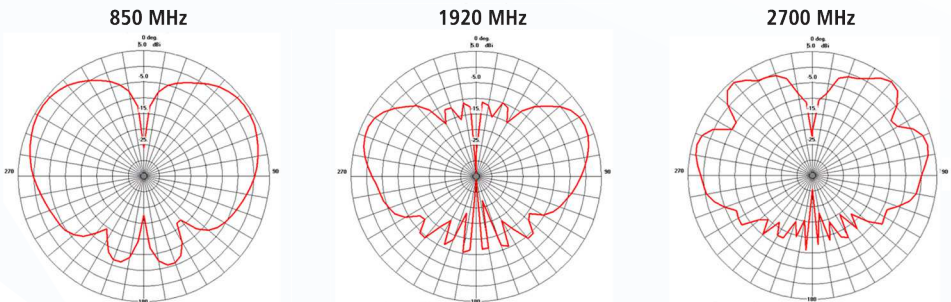
- Public Safety
- Cellular
- M2M
- Utility
- Transportation
- IBW

### ANTENNA PATTERNS

#### Azimuth Patterns



#### Elevation Patterns





### SPECIFICATIONS

#### ELECTRICAL

Frequency Range	806-896 MHz, 1850-1990 MHz, 2500-2700 MHz
VSWR	< 2.1: 1.0
Return Loss	-10dB max
Nominal Peak Gain	
806-896 MHz	4 dBi
1850-1990 MHz	3.5 dBi
2500-2700 MHz	3.0 dBi
Average Efficiency	
806-896 MHz	89% (max: 93%)
1850-1990 MHz	73% (max: 74%)
2500-2700 MHz	77% (max: 82%)
Polarization	Vertical
Pattern	Omnidirectional
Input Impedance	50 Ω
Maximum Power	100 W
Cable & Mount	MB195 (Sold Separately)
Terminations	NMO or P Mount w/N Female Connector

#### 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
TRA8063M3PB-001	Tri Band Phantom <sup>®</sup>	Black	3.30"	0.38 lbs Type N(f)
TRA8063M3NB-001	Tri Band Phantom <sup>®</sup>	Black	3.30"	0.28 lbs NMO
TRA8063M3PW-001	Tri Band Phantom <sup>®</sup>	White	3.30"	0.38 lbs Type N(f)
TRA8063M3NW-001	Tri Band Phantom <sup>®</sup>	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-TRA8063M3 1214

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