

Laird (Antenex) Phantom® Antenna Ordering Guide

Legacy Antennas (450 MHz/UHF, 900 MHz ISM & 2G/3G cellular)

PART NUMBER KEY

Color & Style	First 3-4 characters
TRA	TR ansit Antenna (standard Phantom® antenna) White
TRAB	TR ansit Antenna (standard Phantom® antenna) Black

XXXX
Color & Style

Frequency (MHz)	Next 3-4 numbers
450	450-470 MHz
806	806-866 MHz
821	821-896 MHz
902	902-928 MHz
1850	1800 MHz
2400	2.4-2.5 GHz
24/4900	2.4 & 4.9 GHz
5800	4.9-6.0 GHz
821/1850	821-896 & 1850-1990 MHz (dual band 2G/3G)
806/17103	806-960 & 1710-2500 MHz (quad band 2G/3G)

XXXX
Frequency (MHz)

Gain (dBi)	Next number
0	0 dBi, or "Unity" gain
3	3 dBi gain

X
Gain (dBi)

Ground Plane & Mounting Options	Final 2 characters
Blank	NMO (3/4") base Metal ground plane IS required
N	NO metal ground plane required NMO mounting base
P	Permanent N-Female connector base Metal ground plane IS required
NP	NO metal ground plane required Permanent N-Female base

XX
Ground Plane & Mounting Options

XXXX
Color & Style

XXXX
Frequency (MHz)

X
Gain (dBi)

XX
Ground Plane & Mounting Options



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<p>Example 1</p>	<p>TRA4503</p>	<ul style="list-style-type: none"> • White • 450 MHz • 3 dBi • requires ground plane • ¾" NMO mount 	
<p>Example 2</p>	<p>TRAB24003NP</p>	<ul style="list-style-type: none"> • Black • 2.4 GHz • 3 dBi • no ground plane required • permanent mount 	

Basic Phantom® Antenna Specifications		
Material	ABS Plastic	
Size	800 MHz and higher	2.75" H x 1.5" W
	UHF/400–450 MHz	3.5" H x 1.5" W
Polarity	Dual polarity H/V-horizontal and vertical	
Beamwidth	Vertical = 130° Horizontal = 360°/omnidirectional	
Temperature Range	-40 to +85 C	
VSWR	<2:1	
Return Loss	<10 dB max	
Max. Input Power	100 watts	
Revised August 5, 2013		