

5G PHANTOM LOW PROFILE, DIRECT MOUNT, ON-GROUND PLANE ANTENNAS



Figure 1: 5G Phantom - black



Figure 2: 5G Phantom - white



The 5G Phantom on-ground plane antenna series cover either 617-7125 or 698-7125 MHz and are both available in black or white.

5G Phantom antennas deliver global cellular coverage, even for regions where the lower 600 MHz band is required. They offer high levels of average efficiency, over 80% up to 4200 MHz, and gain up to 5.5 dBi in an IP67-rated and compact form factor.

A direct-mount, threaded stud, with superior quality and integrated N-female connector provides tamper-resistant installation. The direct coaxial connection ensures performance remains consistent, even at the higher frequencies, avoiding the performance losses of other mounting methods.

- **Based on our popular Phantom series** – Our highly-popular Phantom antennas are widely used in applications such as vehicular, public safety, and IoT installations.
- **Global cellular coverage** – Available in 617-7125 MHz and 698-7125 MHz variants
- **Optimized** – Optimal gain directed at just above the horizon for superior connectivity with exceptional efficiency levels
- **Connectivity where you need it** – Uniform azimuth patterns reduce the chance of signal drop outs
- **Rugged, robust construction** – Tamper-resistant and highly durable with IP67-rated enclosure and UL 94 flammability rating
- **Guaranteed** – Backed by our industry-leading 5-year warranty

ELECTRICAL SPECIFICATIONS – On-Ground Plane Antennas

FTRA6171M5PB-001: 617-7125 MHz On-Ground - Black	✓	✓	✓	✓	✓	✓	✓
FTRA6171M5PW-001: 617-7125 MHz On-Ground - White	✓	✓	✓	✓	✓	✓	✓
FTRA6971M5PB-001 : 698-7125 MHz On-Ground - Black		✓	✓	✓	✓	✓	✓
FTRA6971M5PB-001 : 698-7125 MHz On-Ground - White		✓	✓	✓	✓	✓	✓
Operating Frequency (MHz)	617-698	698-960	1427-1695	1695-2700	3300-4200	4400-6000	6000-7125
VSWR (Max)	<2.5:1	<2.0:1	<2.7:1	<2.0:1	<1.5:1	<1.5:1	<1.5:1
Peak Gain (dBi)	4.2	4	4.5	5.5	5.5	5.5	5.5
Efficiency (%), Avg	Over 80					60	60
Polarization	Vertical						
Azimuth (Horizontal) Beamwidth	360°						
Nominal Impedance (Ohms)	50						
Max Power @ Ambient 25°C (W)	100						

MECHANICAL SPECIFICATIONS

Dimensions – height x diameter bottom–diameter top – mm (inches)	FTRA6171M5P: 617-7125 MHz	96 x 45-32 (3.78 x 1.81-1.26)
Dimensions – height x diameter bottom–diameter top – mm (inches)	FTRA6971M5P: 698-7125 MHz	84 x 45-32 (3.78 x 1.81-1.26)
Connecto	Type N (female)	

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
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Note: All data and specifications are subject to change at any time.