



5G Phantom No Ground Plane Required Antennas

Ground Plane Independent Low Profile Omni Antennas

The 5G Phantom no ground plane antenna series cover either 617-7125 or 698-7125 MHz in a ground plane independent format. Offering global cellular coverage, without the need for a fixed ground plane, even for regions where the lower 600 MHz band is required. They deliver high levels of average efficiency, over 95% up to 4200 MHz, and gain up to 8.0 dBi in an IP67-rated, 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.

FEATURES AND BENEFITS

- Global cellular coverage Available in 617-7125 MHz and 698-7125 MHz variants
- Minimum gain ripple around the horizon (Azimuth Plane) there is excellent consistency with minimal shifting gain
- 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

ELECTRICAL SPECIFICATION							
Part Number	FTRA6171M6PBN-001/ FTRA6171M6PWN-001						
Operating Frequency (MHz)	617-960	1427-1695	1695-2700	3300-4200	4400-6000	6000-6500	6500-7125
VSWR - Max	2.5:1	2.0:1	2.0:1	2.5:1	3.5:1	3.5:1	3.5:1
Peak Gain - Average (dBi)	0.2	1.6	3.3	6.1	7.5	7.9	8.6
Efficiency (%) Avg.	59	94	86	95	84	78	87
Part Number	FTRA6971M6PBN-001/ FTRA6971M6PWN-001						
Operating Frequency (MHz)	698-960	1427-1695	1695-2700	3300-4200	4400-6000	6000-6500	6500-7125
VSWR - Max	2.5:1	2.0:1	2.0:1	2.5:1	3.5:1	3.5:1	3.5:1
Peak Gain - Average (dBi)	0.4	1.1	2.7	5.7	6.6	7.4	8.1
Efficiency (%) Avg.	61	87	93	96	80	80	88
Polarization	Vertical						
Azimuth Beamwidth (All Models)	360 °, Omnidirectional						
Nominal Impedence (Ohms)	50						

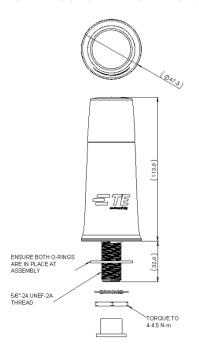
MECHANICAL SPECIFICATION				
Dimensions - height x circumferece - mm (in.)	113 x 47.3Ø (4.45 x 1.86) - 617-7125 MHz Models 96.5 x 47.3 Ø (3.80 x 1.86) - 698-7125 MHz Models			
Weight - g (oz.)	280.9 (9.91)			
Connector	Type N (female)			
Radome	PolyCarbonate			

ENVIRONMENTAL SPECIFICATION				
Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)			
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)			
Ingress Protection (IP Rating)	IP67			
Flammability Rating	UL94			
Material Substance Compliance	RoHS Compliant			

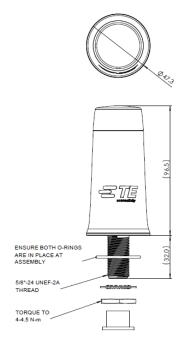
PART NUMBER	CONNECTOR	COLOR	FREQUENCY
FTRA6171M6PBN-001	Type N (female)	Black	617-7125 MHz
FTRA6171M6PWN-001	Type N (female)	White	617-7125 MHz
FTRA6971M6PBN-001	Type N (female)	Black	698-7125 MHz
FTRA6971M6PWN-001	Type N (female)	White	698-7125 MHz

MECHANICAL DRAWINGS

FTRA6171M6PBN-001 & FTRA6171M6PWN-001



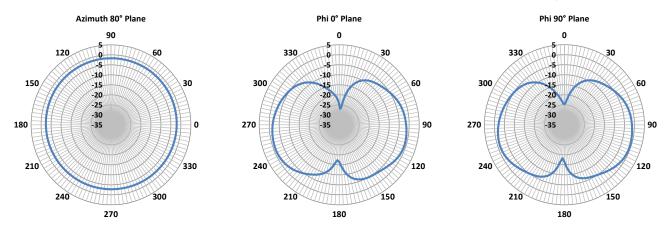
FTRA6971M6PBN-001 & FTRA6971M6PWN-001



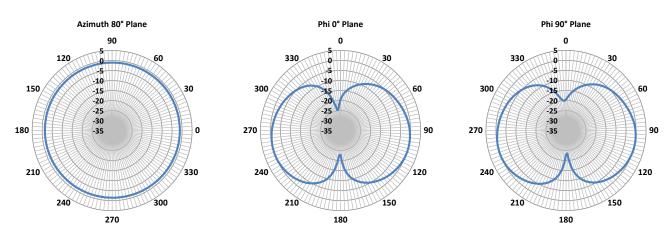
RADIATION PATTERNS

The radiation patterns below are representative of both the 617-7125 and 698-7125 5G Phantom ground plane independent models. If required a full datas set can be made available via our experience engineering teams.

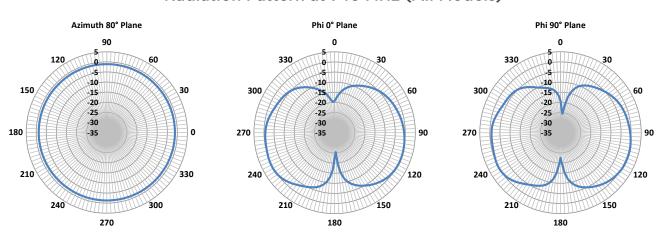
Radiation Patterns at 617 MHz (FTRA6171M6 Models Only)



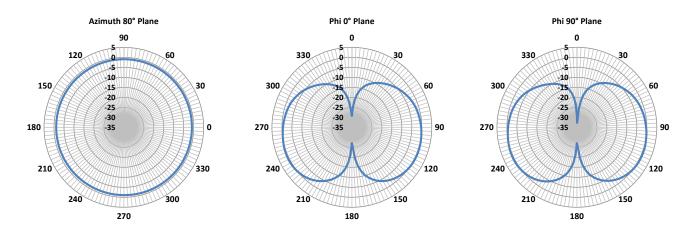
Radiation Patterns at 698 MHz (All Models)



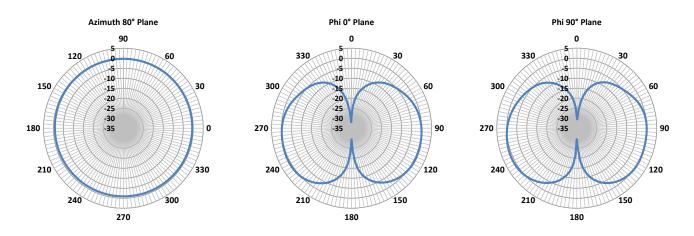
Radiation Pattern at 746 MHz (All Models)



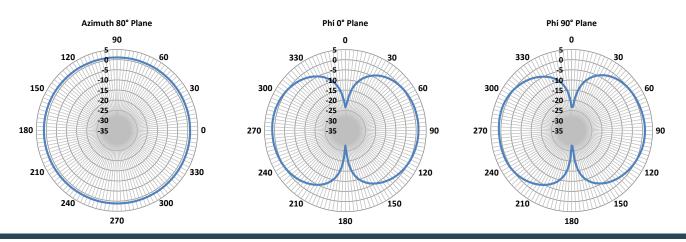
Radiation Pattern at 824 MHz (All Models)



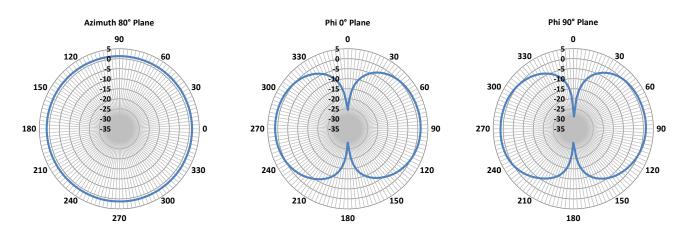
Radiation Pattern at 960 MHz (All Models)



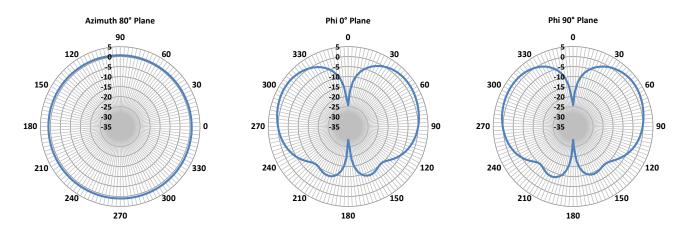
Radiation Pattern at 1427 MHz (All Models)



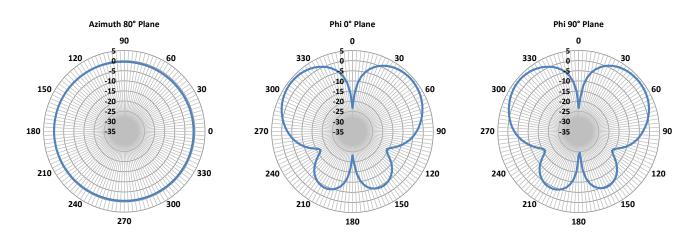
Radiation Pattern at 1500 MHz (All Models)



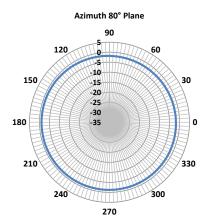
Radiation Pattern at 1850 MHz (All Models)

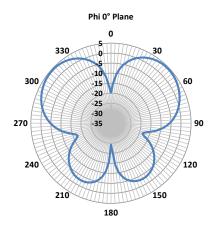


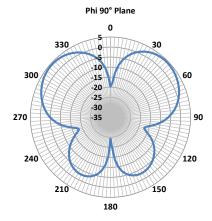
Radiation Pattern at 2170 MHz (All Models)



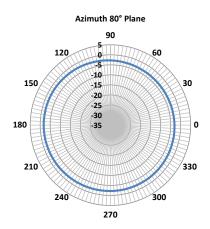
Radiation Pattern at 2310 MHz (All Models)

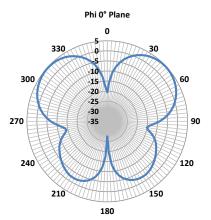


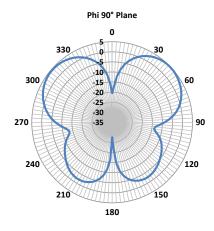




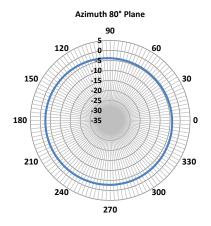
Radiation Pattern at 2506.5 MHz (All Models)

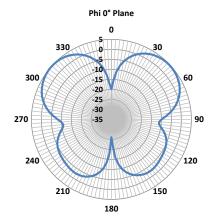


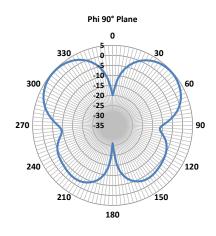




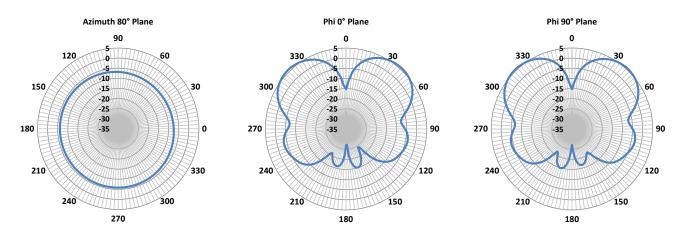
Radiation Pattern at 2700 MHz (All Models)



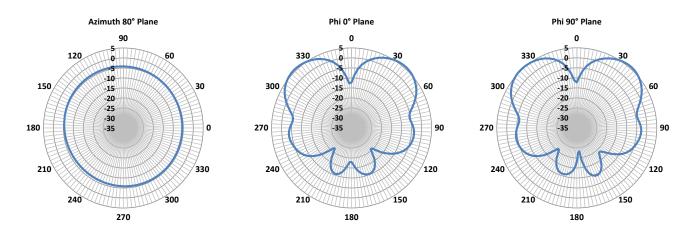




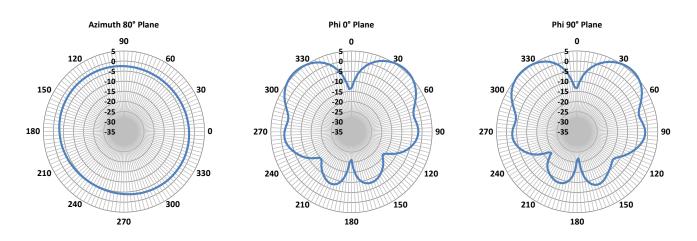
Radiation Pattern at 3300 MHz (All Models)



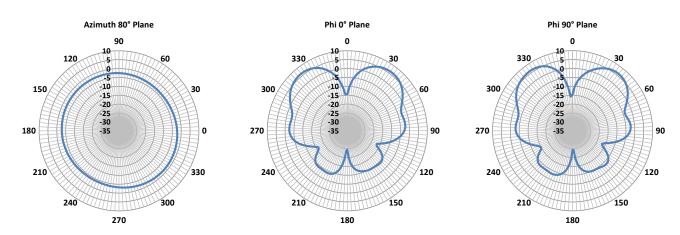
Radiation Pattern at 3500 MHz (All Models)



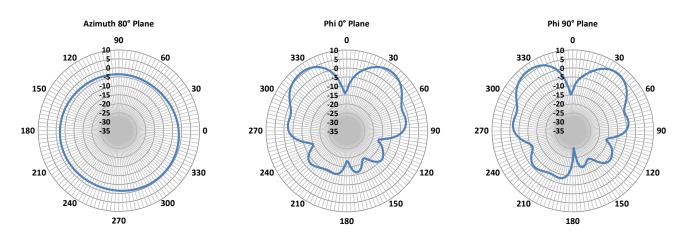
Radiation Pattern at 3800 MHz (All Models)



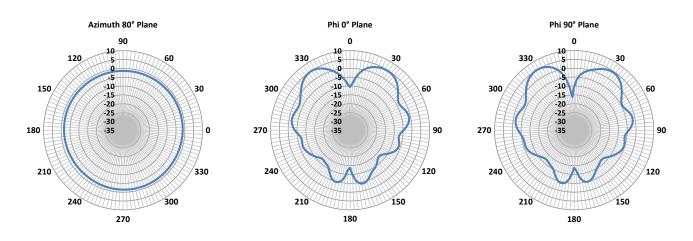
Radiation Pattern at 4200 MHz (All Models)



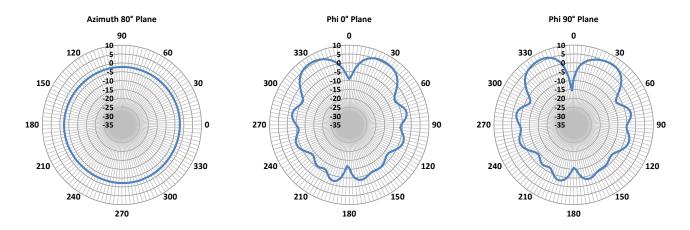
Radiation Pattern at 4400 MHz (All Models)



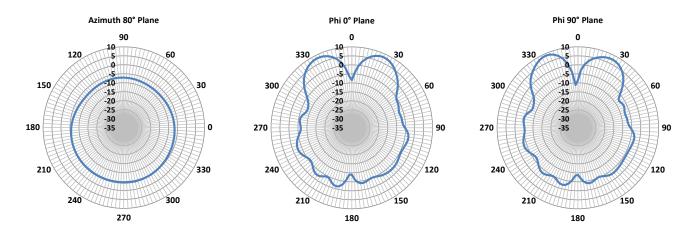
Radiation Pattern at 5150 MHz (All Models)



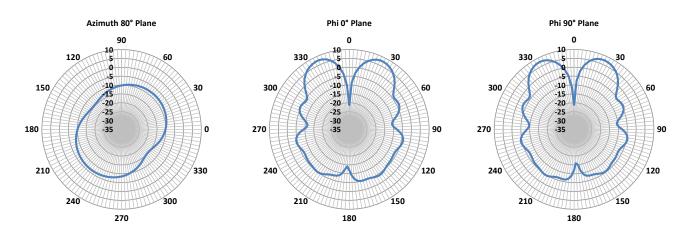
Radiation Pattern at 5470 MHz (All Models)



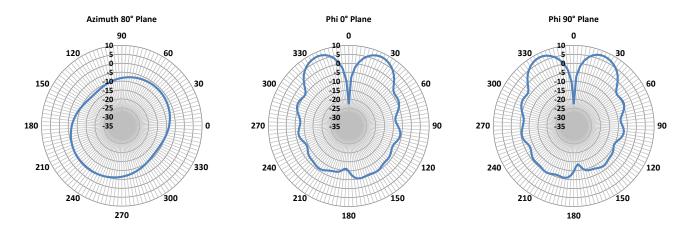
Radiation Pattern at 5925 MHz (All Models)



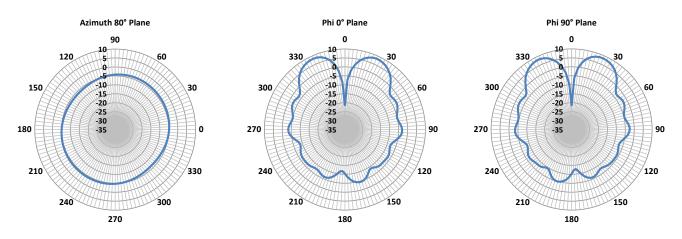
Radiation Pattern at 6300 MHz (All Models)



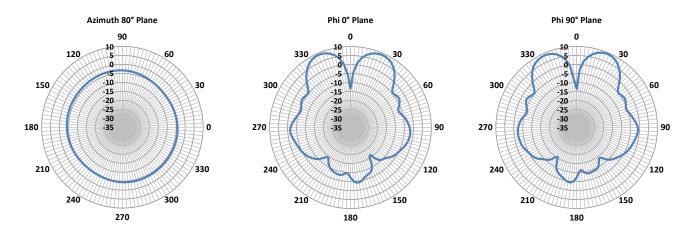
Radiation Pattern at 6500 MHz (All Models)



Radiation Pattern at 6800 MHz (All Models)

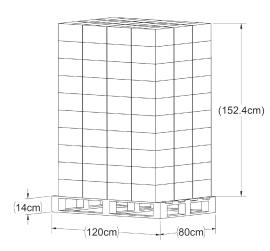


Radiation Pattern at 7100 MHz (All Models)



PACKING INFORMATION

PACKAGING - INDIVIDUAL CARTON

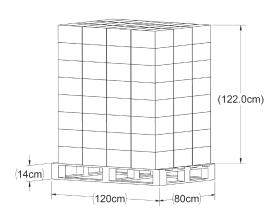


Ocean Shipping

Standard configuration information.

- Pallet 120cm X 80cm X 14cm, Weight 12kg
- Master carton @ 1 unit: Weight 8.23kg
- For ocean shipments 120 master carton with pallet: Weight 999.6kg (120cm x 80 cm x 152.4cm) 3000 total unit per pallet

PACKAGING - BULK PACK



Air Shipping

Standard configuration information.

- Pallet 120cm X 80cm X 14cm, Weight 12kg
- Master carton @ 1 unit: Weight 8.23kg
- For Air shipments 96 master carton with pallet: Weight 802kg (120cm \times 80 cm \times 122.0cm) 2400 total unit per pallet

Antenna with bag pack Master Carton Internal Size (mm) :L260 X W260 X H150 Total 25 unit Antennas pack

TE TECHNICAL SUPPORT CENTER

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