

LGE-7-27

Low Profile LTE & GPS

22/09/2015 v.1

Low Profile 2G/3G/4G Antenna With GPS

- Rugged Low Profile Design
- Wideband LTE-Cellular Element
- GPS/GNSS/BEIDOU 26dB LNA
- Weatherproof Casing



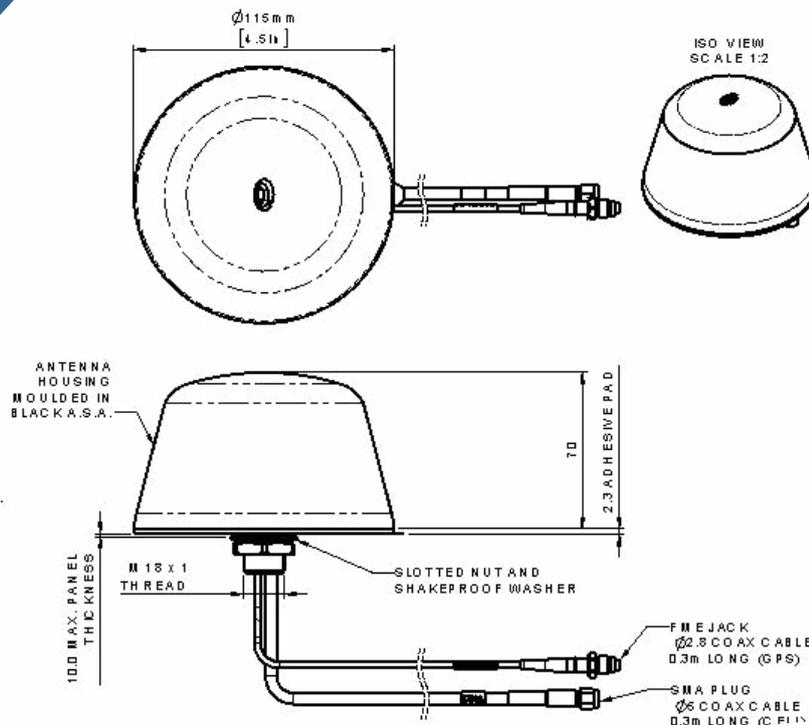
The LG[P]E antenna series is a range of low profile antennas incorporating a combination of wideband cellular elements covering 2G/3G and 4G frequencies along with a GPS/GNSS/BEIDOU element in a robust compact housing.

Designed to be tough yet cost effective, the antennas are completely enclosed in a moulded housing made from weather and impact resistant plastic. The range is supplied with short fly leads and can be kitted with Panorama Antennas' low loss extension cables in various lengths.

Ground Plane Independent

This antenna does not require a ground plane, and maintains a high level of performance even when mounted on a non-metallic surface.

Technical Drawing



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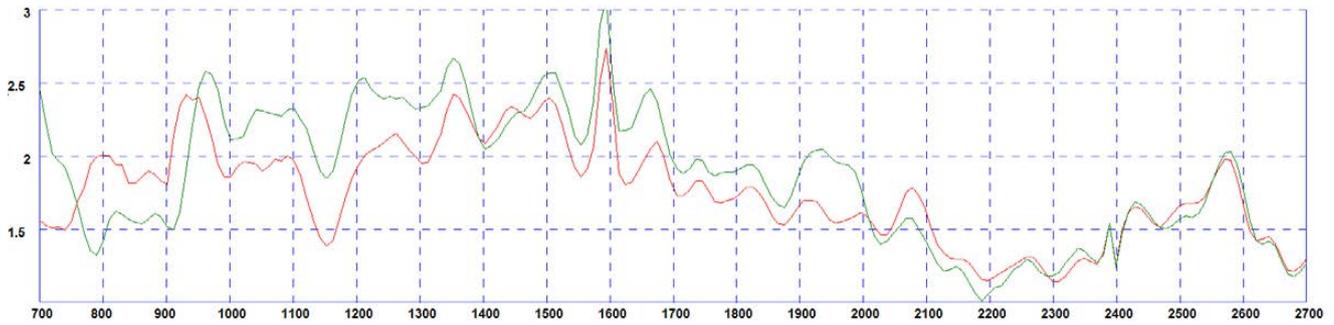
Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

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Part No.		LGE-7-27	
Electrical Data			
Frequency Range (MHz)	Element 1	698-960 / 1700-2700	
	Element 2	1560-1612	
Operational Bands	Element 1	LTE / Cellular	
	Element 2	GPS/GNSS/BEIDOU	
Peak Gain: Isotropic	Element 1	698-960MHz	4dBi
		1710-2700MHz	6dBi
Typical VSWR	Element 1	≤ 2.5:1	
Polarisation		Vertical	
Impedance		50Ω	
Max Input Power (W)		50	
GPS Data			
Frequency Range (MHz)		1560-1612	
VSWR		<2.0:1	
Gain: LNA		26dB	
Polarisation		Right Hand Circular	
Operating Voltage		3 -5V DC (fed via coax)	
Current		Typical 15mA	
Mechanical Data			
Dimensions	Height	2.8" (70mm)	
	Diameter	4.5" (115mm)	
Operating Temp		-22° / 176°F (-30° / +80°C)	
Material		A.S.A	
Colour		Black	
Mounting Data			
Mounting type		Panel mount	
Max panel thickness		0.4" (10mm)	
Mounting hole		3/4" (19mm)	
Cable Data			
Cell / LTE Cable	Type	CS29 (double shielded RG58)	
	Diameter	0.2" (5mm)	
	Length	1' (0.3m)	
	Termination	SMA (male)	
GPS Cable	Type	RG174	
	Diameter	0.11" (2.8mm)	
	Length	1' (0.3m)	
	Termination	FME (female)	

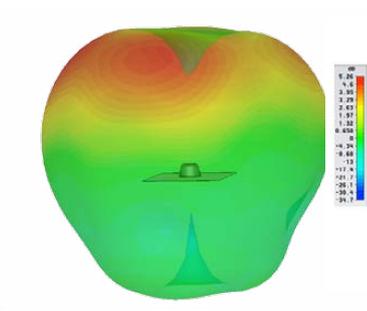
We recommend the customer uses Panorama CS29 extension cables for 2G/3G/4G, CS32 extension cables for WLAN and RG174 or CS23 for GPS.

Typical VSWR cellular / LTE element 1*

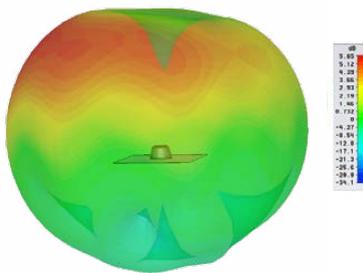


* Red VSWR measured in on a 400 x400mm (1.3' x 1.3') ground plane without extension cables.
Green VSWR measured in free space without extension cables.

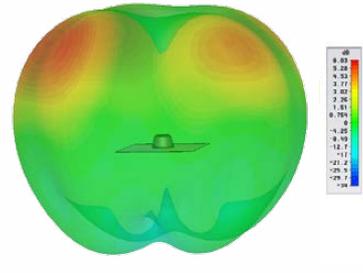
Typical 3D Pattern - Element 1 700MHz



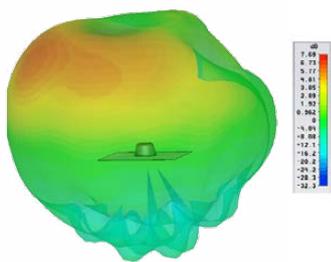
Typical 3D Pattern - Element 1 800MHz



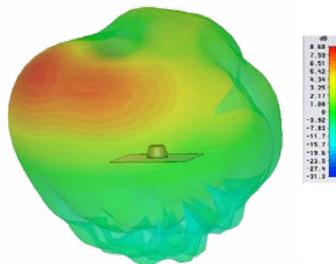
Typical 3D Pattern - Element 1 900MHz



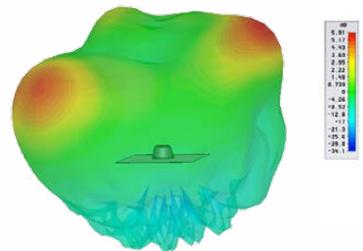
Typical 3D Pattern - Element 1 1800MHz



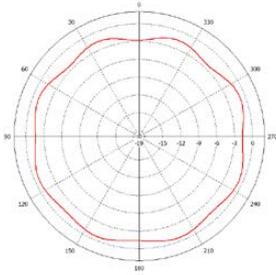
Typical 3D Pattern - Element 1 2000MHz



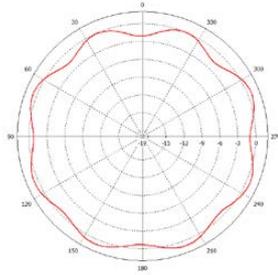
Typical 3D Pattern - Element 1 2600MHz



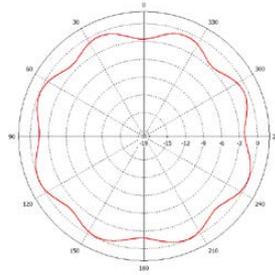
Typical H-Plane (700MHz)



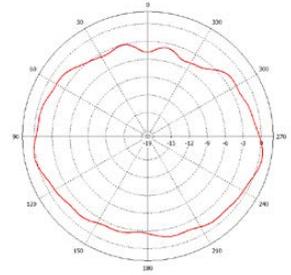
Typical H-Plane (800MHz)



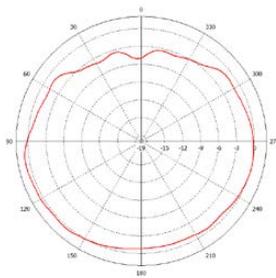
Typical H-Plane (900MHz)



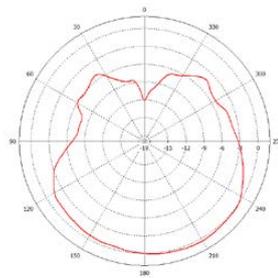
Typical H-Plane (1.7GHz)



Typical H-Plane (1.9GHz)



Typical H-Plane (2.7GHz)



| All pattern and gain measurements taken on a 400 x 400mm (2' x 2') ground plane without additional cable.

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