

LPE-7-27

Low Profile LTE

22/09/2015 v.1

Low Profile 2G/3G/4G Antenna

Rugged Low Profile Design
Wideband LTE-Cellular Element
Weatherproof Casing



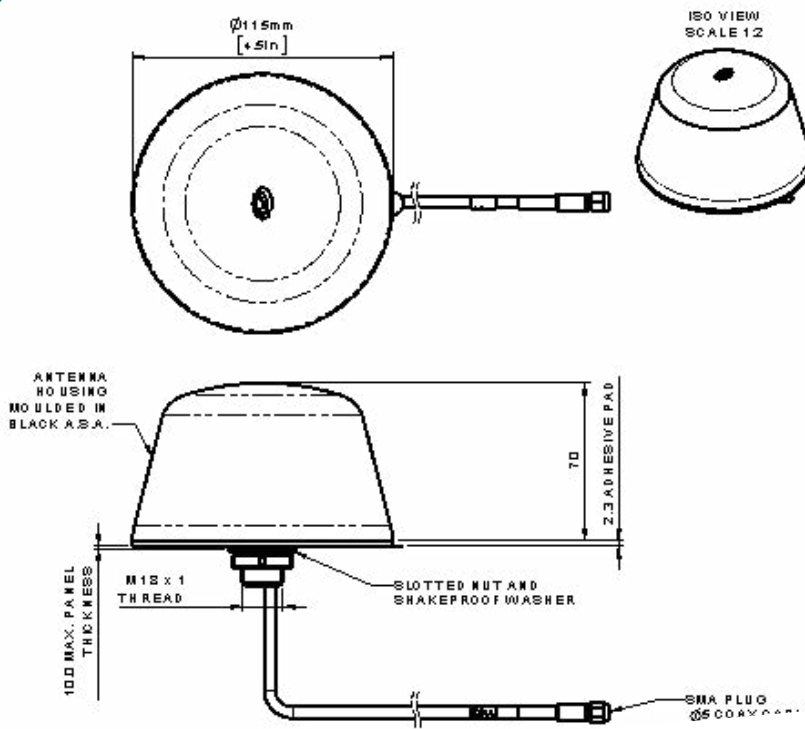
The LPE antenna series is a range of low profile antennas incorporating a combination of wideband cellular elements covering 2G/3G and 4G frequencies in a robust compact housing.

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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Part No.

LPE-7-27

Electrical Data

Frequency Range (MHz)	Element 1	698-960 / 1700-2700	
Operational Bands	Element 1	LTE / Cellular	
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	

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

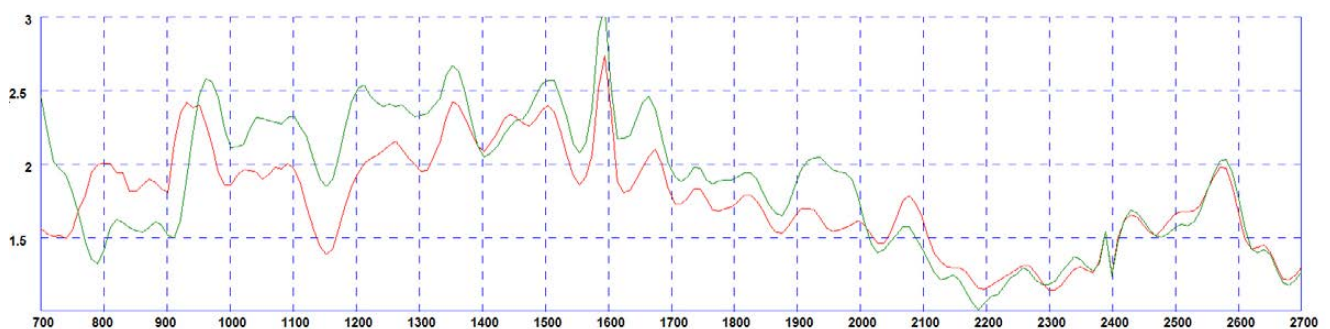
Mounting type	Panel mount
Max panel thickness	0.4" (10mm)
Mounting hole	3/4" (19mm)

Cable Data

Cell / LTE Cable	Type	CS29 (double shielded RG58)
	Diameter	0.2" (5mm)
	Length	1' (0.3m)
	Termination	SMA (male)

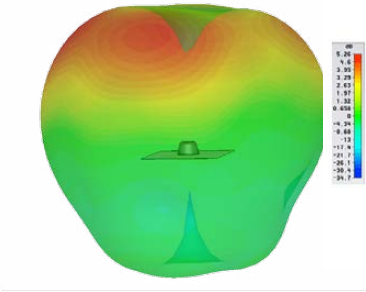
We recommend the customer uses Panorama CS29 extension cables for 2G/3G/4G, CS32 extension cables for WLAN and RG174 or CS23 for GPS.

Typical VSWR cellular / LTE element 1*

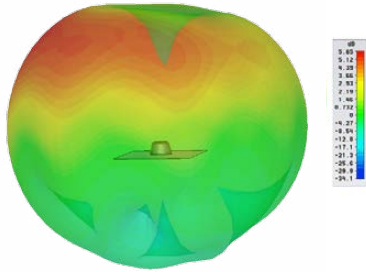


* Red VSWR measured in on a 400 x 400mm (1.3' x 1.3') ground plane without extension cables.
Green VSWR measured in free space without extension cables.

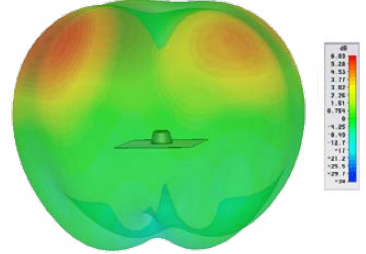
Typical 3D Pattern - Element 2 700MHz



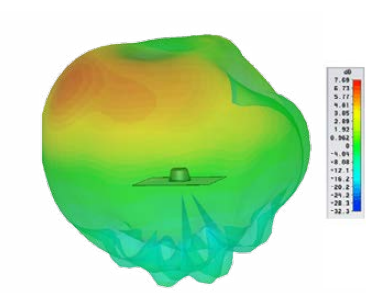
Typical 3D Pattern - Element 2 800MHz



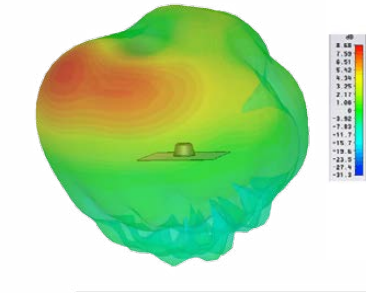
Typical 3D Pattern - Element 2 900MHz



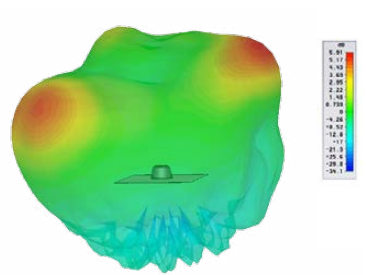
Typical 3D Pattern - Element 2 1800MHz



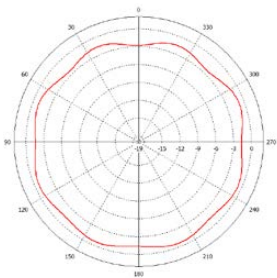
Typical 3D Pattern - Element 2 2000MHz



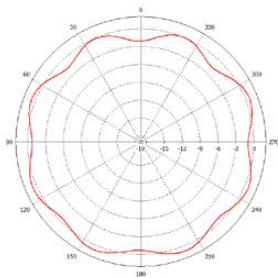
Typical 3D Pattern - Element 2 2600MHz



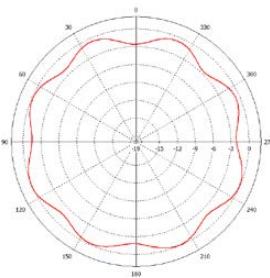
Typical H-Plane (700MHz)



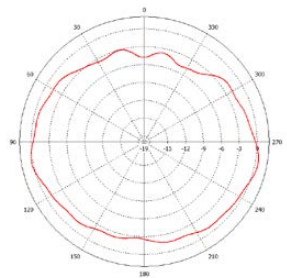
Typical H-Plane (800MHz)



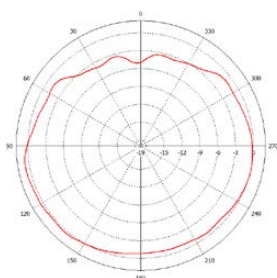
Typical H-Plane (900MHz)



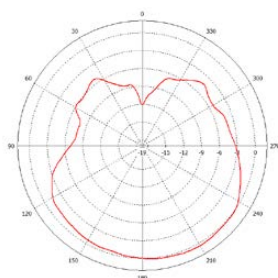
Typical H-Plane (1.7GHz)



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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