## LGE-7-27-24-58

Low Profile LTE, WiFi & GPS



22/09/2015 v.1

## Low Profile 2G/3G/4G Antenna With WiFi And GPS

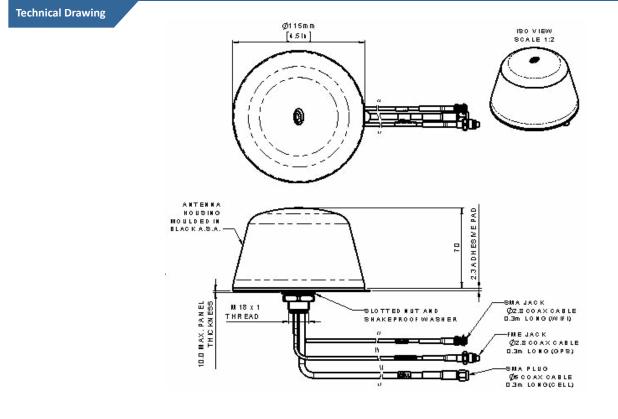
Rugged Low Profile Design Wideband LTE-Cellular Element 2.4 & 4.9-6GHz WiFi Element Integrated GPS/GNSS/BEIDOU antenna

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 an active GPS patch with 26dB LNA gain and a dual band WiFi 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.





T: +44 (0)20 8877 4444 F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com www.panorama-antennas.com

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.

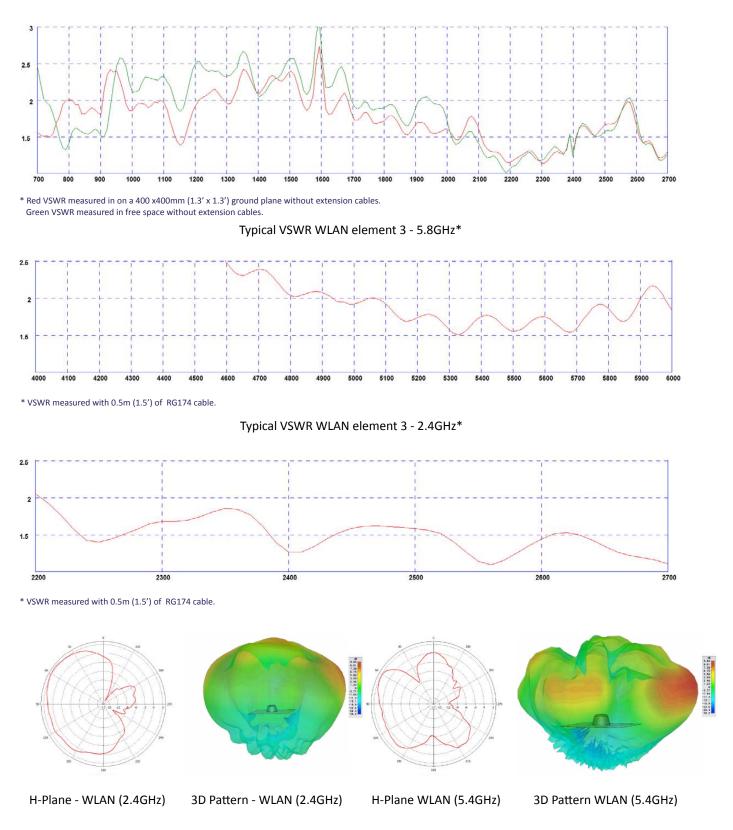
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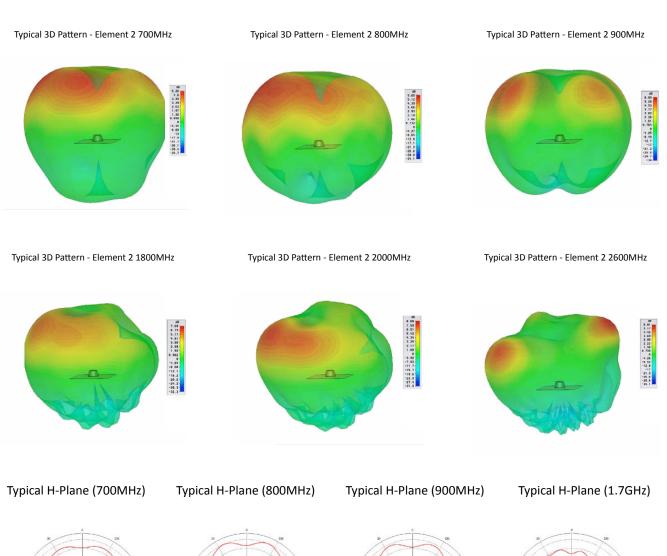
Part No.			
			LGE 7-27-24-58
Electrical Data			
/	Element 1		1560-1612
Frequency Range (N			698-960 / 1700-2700
	Element 3		2.4/ 4.9-6GHz
	Element 1		GPS / GNSS / BEIDOU
Operational Bands	Element 2		LTE / Cellular
	Element 3		WIFI / 802.11 a/b/g/n
	Element 2	698-960MHz	4dBi
Peak Gain: Isotropic	C	1710-2700MHz	6dBi
	Element 3		2dBi
Typical VSWR	Element 2		≤ 2.5:1
.,,,	Element 3		≤ 2.5:1
Polarisation			Vertical
Impedance			50Ω
Max Input Power (W)			50
GPS Data			
Frequency Range (MHz)			1560-1612
VSWR			<2.0:1 ± 4MHz
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			
GPS Cable	Туре		RG174
	Diameter		0.11" (2.8mm)
	Length		1′ (0.3m)
	Termination		FME (female)
Cell / LTE Cable	Туре		CS29 (double shielded RG58)
	Diameter		0.2"(5mm)
	Length		1′ (0.3m)
	Termination		SMA (male)
			RG174
	Type Diameter		
WIFI / WiMAX Cable	Diameter		0.1" (2.8mm)
	Length		1' (0.3m)
	Termination		SMA (female)

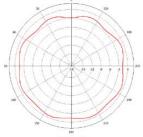
We recommend the customer uses Panorama CS29 extension cables for 2G/3G/4G, CS32 extension cables for WLAN and RG174 or CS23 for GPS.



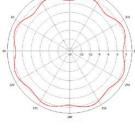
## Typical VSWR cellular / LTE element 2\*

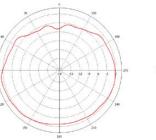




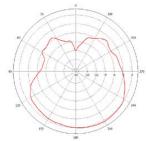












All pattern and gain measurements taken on a 400 x 400mm (2' x 2') ground plane without additonal cable.

Panorama Antennas Ltd Frogmore, London, SW18 1HF, United Kingdom

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E: sales@panorama-antennas.com www.panorama-antennas.com

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