



### LPB-7-27

- Robust panel mount antenna
- Efficient 2G/3G/4G and 3.8GHz 5G coverage
- Easy to install

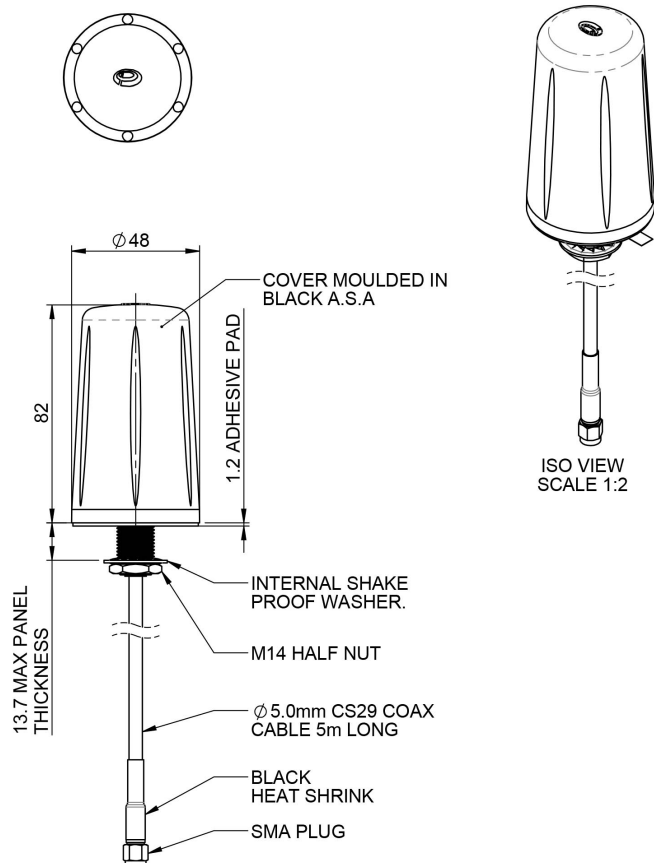
The Panorama LPB low profile antenna range has been designed to perform even in extreme environments. At only 82mm (3.22") high and protected by a robust high impact radome the antenna is almost impervious to daily wear, tear and impact.

The LPB offers excellent performance across a wide bandwidth. Mounted on a 400 x 400mm groundplane the LPB covers public safety / LTE frequencies across 700 and 800MHz as well as all global cellular frequencies from 698-960 MHz and 1710-3800MHz making it an extremely versatile product.

Supplied with a convenient adhesive pad and either a short pigtail for connection to a cable extension or an integrated 5m (17') low loss cable run the antenna is cost effective to install and adaptable to any install environment.

#### Technical Drawing

LPB-7-27-5SP Shown



Product Data

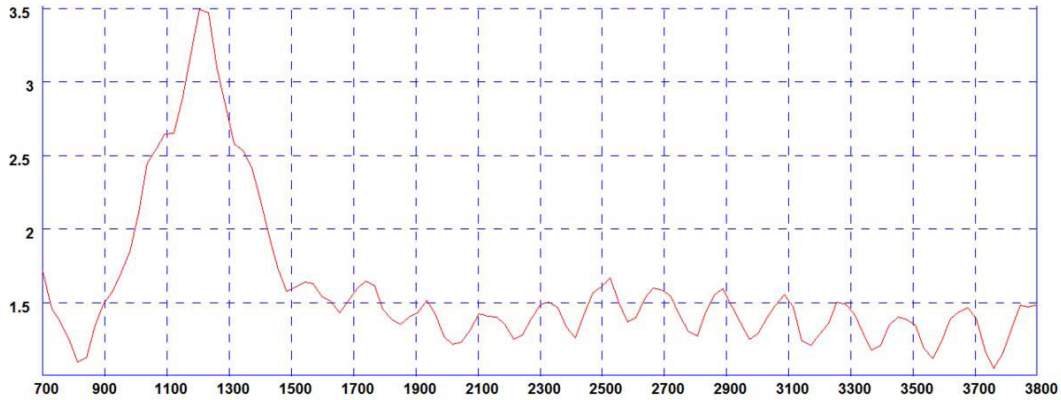
Part No.		LPB-7-27-05SP	LPB-7-27-2SP	LPB-7-27-5SP
<b>Electrical Data</b>				
Frequency Range (MHz)		698-960 / 1710-3800		
Operational Band		700 / 800 / 900 / 1800 / 1900 / 2100 / 2400 / 2600 / 3600		
Peak Realised Gain: Isotropic*	698-960MHz	3dBi		
	1710-2700 MHz	5dBi		
	2170-2700 MHz	4dBi		
	3400-3800 MHz	8dBi		
VSWR		< 2.5:1		
Polarisation		Vertical		
Pattern		Omni-directional		
Impedance		50Ω		
Max Input Power (W)		30		
<b>Mechanical Data</b>		LPB-7-27-05SP	LPB-7-27-2SP	LPB-7-27-5SP
Dimensions (mm)	Height	82 (3.22")		
	Diameter	48 (1.89")		
Operating Temp (°C)		-40° / +80°C ( -40° / 176°F )		
Material		UV Stable ASA		
Colour		Black		
Ingress Protection		IP65		
<b>Mounting Data</b>				
Fixing		Panel mount		
Hole Diameter (mm)		14 (0.5")		
Max Panel Thickness (mm)		13 (0.5")		
Weight (g)		125	146	300
<b>Cable Data</b>				
Type		CS29 (Double Shielded RG58)		
Diameter (mm)		5 (0.19")		
Length (m)		0.5 (1.5')	2 (6.6')	5 (17')
Termination		SMA Plug	SMA Plug	SMA Plug

\* Peak gain simulated in CST microwave studio on a ground plane excluding cable loss

\*\*Other cable lengths and connectors available on request.

### Electrical Data

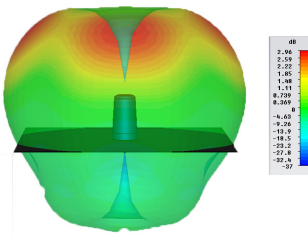
Typical VSWR



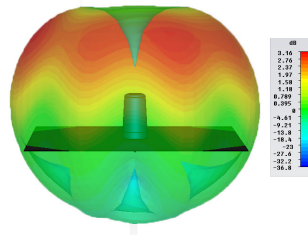
\*VSWR measured on 400x400mm (15"x15") ground plane with 5m (16') of CS29 cable.

### 3D Patterns - Cell

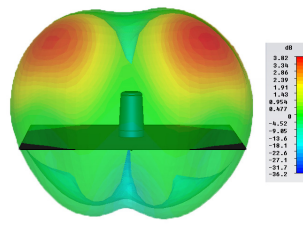
3D Gain Plot (700MHz)



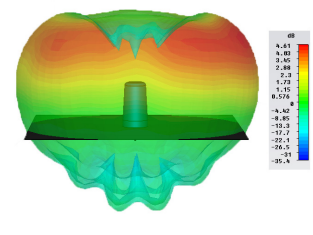
3D Gain Plot (800MHz)



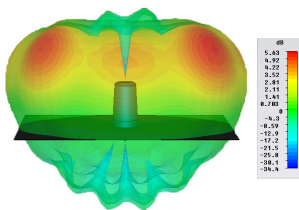
3D Gain Plot (900MHz)



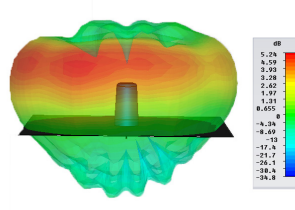
3D Gain Plot (1800MHz)



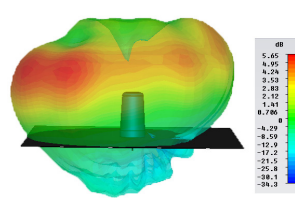
3D Gain Plot (2100MHz)



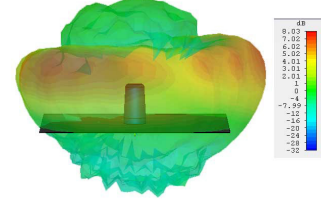
3D Gain Plot (2400MHz)



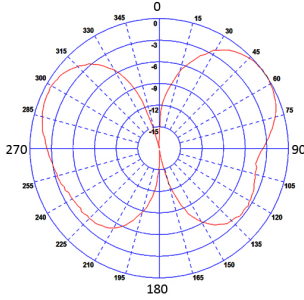
3D Gain Plot (2600MHz)



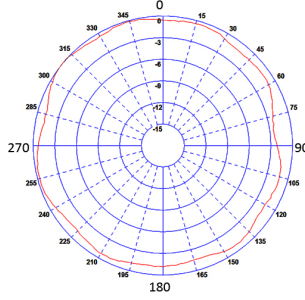
3D Gain Plot (3600MHz)



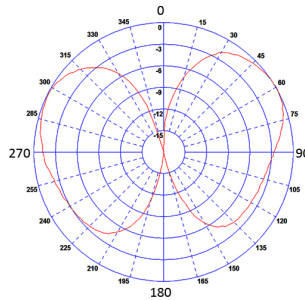
Typical E Plane (850MHz)



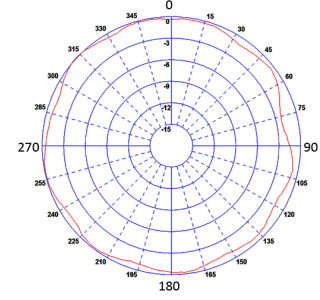
Typical H Plane (850MHz)



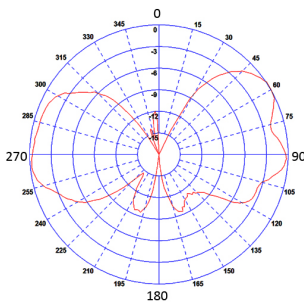
Typical E Plane (900MHz)



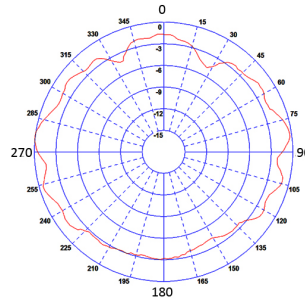
Typical H Plane (900MHz)



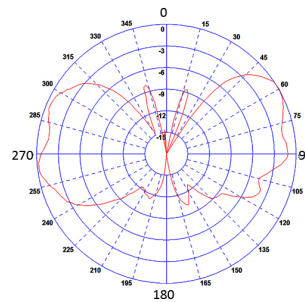
Typical E Plane (1800MHz)



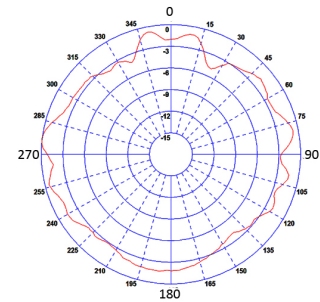
Typical H Plane (1800MHz)



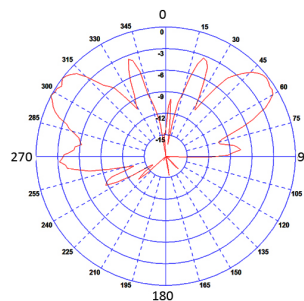
Typical E Plane (2000MHz)



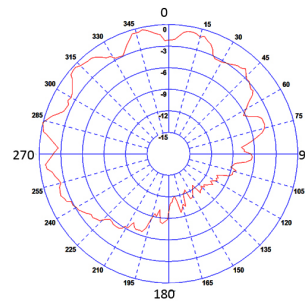
Typical H Plane (2000MHz)



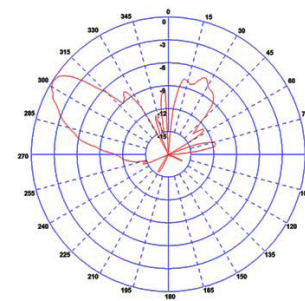
Typical E Plane (2600MHz)



Typical H Plane (2600MHz)



Typical E Plane (3600MHz)



Typical H Plane (3600MHz)

