

LPBSC-6-60-[X]SPIP



- 2G/3G/4G/5G antenna solution covering global bands
- Designed for bracket or cabinet/enclosure installation
- Integrated double shielded coaxial cable
- IP68 rated (5m /7days)

LPBSC-6-60-[X]SPIP is an omni-directional broadband antenna range covering 617-960/1427-6000MHz which has been specially adapted for use in hostile, frequently flooded environments for applications like sewer monitoring and water metering.

The antenna is designed to be wall, mast or panel mounted either using a bracket (not supplied) or on a device / enclosure. The exposed metal parts of the antenna body are 316 stainless steel making the antenna very resistant to corrosion.

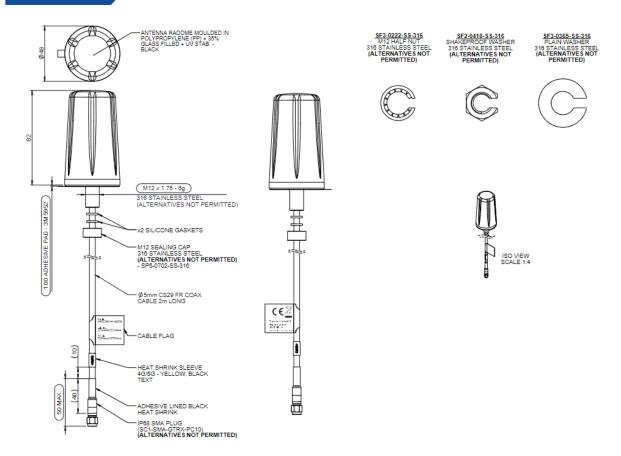
The omni-directional radiation pattern allows easy placement of the antenna in any position, without requiring directional alignment.

TheLPBSC-6-60-[X]SPIP antenna is supplied with an integral ultralow loss FR CS29 coaxial cable, of various lengths, fitted a special SMA plug which forms a seal preventing water wicking up the cable into the antenna housing during submersion.

This antenna is protected to IP68 (5m / 7 days) when mounted on a bracket provided that the SMA plug is properly connected.

Technical Drawing

LPBSC-6-60-[X]SPIP Shown





LPBSC-6-60-[X]SPIP

Product Data

Part No.		
r art ivo.		LPBSC-6-60-2SPIP
Electrical Data		El B00 0 00 201 II
Frequency Range (MHz)		617-960 / 1427-6000
Operational Band		2G / 3G / 4G / 5G
Typical VSWR*		<3:1
Peak Gain*	617-960MHz	2.8
	1427-2700MHz	3.6
(dBi)	3300-6000MHz	5.5
Polarisation		Vertical
Pattern		Omni-directional
Impedance		50Ω
Max Input Power (W)		30
Mechanical Data		
	Height mounted	82mm (3.2")
Dimensions	Diameter	48mm (1.89")
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)
Material		PP 35% GF, 316 Stainless Steel
Colour		Black
Ingress Protect	ion	IP68 (5m / 7 days)
Mounting Data		
Fixing		Panel mount
Mounting Hole	Diameter	19 mm (3/4")
Cable Data		
Туре		FR CS29
Diameter		5mm (0.2")
Length		2m (6.6')
Termination		IP68 SMA Plug

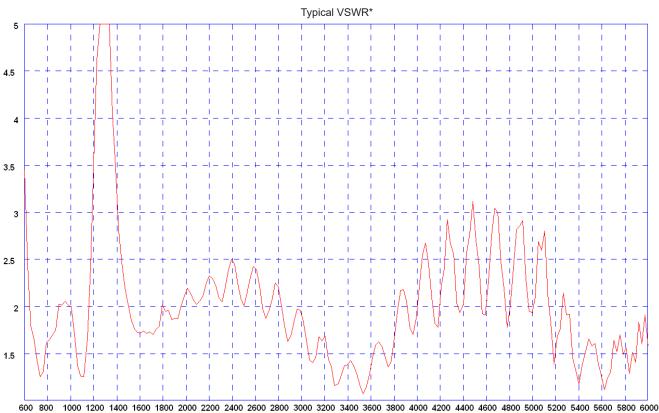
^{*} Typical VSWR and peak gain measured in free space on bracket with 0.5 m (1.6') of CS29 cable



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Electrical Data Cell-Free Space on bracket

Measurement Conditions	4G/5G Antenna				
	Frequency Range (MHz)	LTE Bands	Peak Gain (dBi)	Efficiency (%)	
LPBSC-6-60 measured in free space on bracket with 0.5m (1.6') of CS29 cable	617-698	71, 105	2.0	75	
433999 4	699-798	12,13, 14 17,28	2.4	77	
	807- 862	5,19,20,26,27	2.4	71	
	880-960	8	2.8	64	
	1427-1518	11, 21, 74,75,76	3.6	72	
	1710-1920	2,3,4,9,25,35,39,66	2.6	71	
A PART OF THE PART	1920-2170	1,23	2.6	71	
	2300-2400	30,40	3.0	70	
	2496-2690	7,38,41	3.4	72	
SANA ANNA	3300-4200	22,42,43,48,77,78	5.5	78	
	4400-5000	79	4.9	62	



*VSWR measured in free space on bracket with 0.5m (1.6') of CS29 cable

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Electrical Data Cell-Free Space on bracket

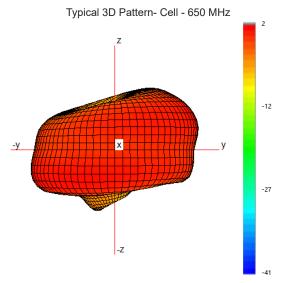


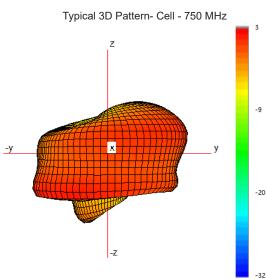
*Efficiency measured in free space on bracket with 0.5m (1.6') of CS29 cable

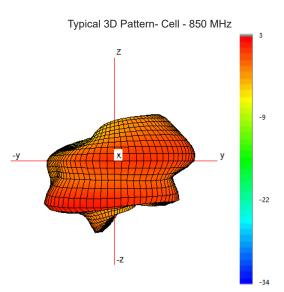


*Peak Gain measured in free space on bracket with 0.5m (1.6') of CS29 cable

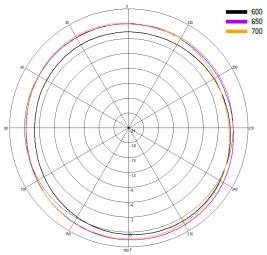
3D Pattern Data in Free Space on bracket Cell



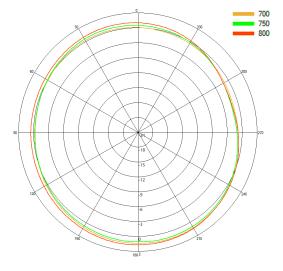




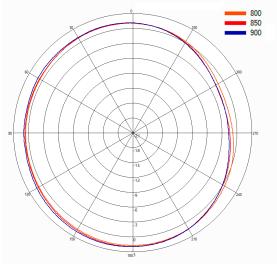
Typical H Plane- Cell - Patterns- 600-700MHz



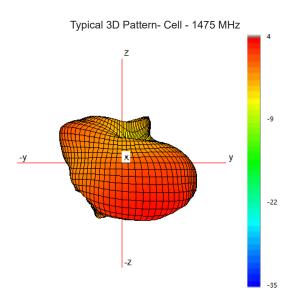
Typical H Plane- Cell - Patterns- 700-800MHz

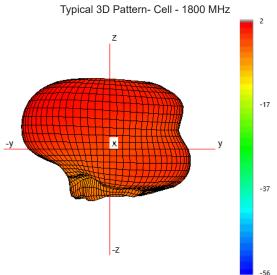


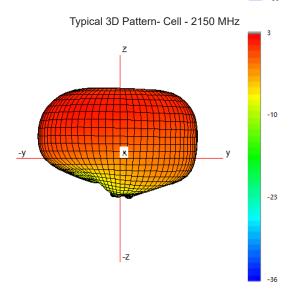
Typical H Plane- Cell - Patterns- 800-900MHz



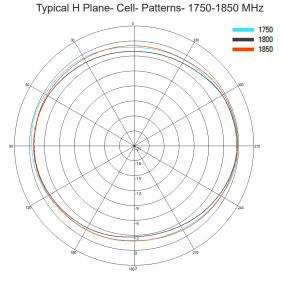
3D Pattern Data in Free Space on bracket Cell

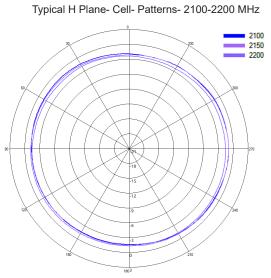






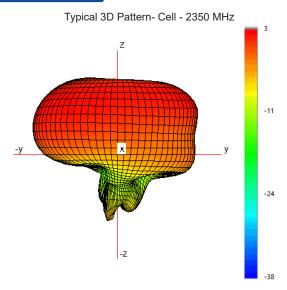
Typical H Plane- Cell- Patterns- 1450-1500 MHz 1475 1500

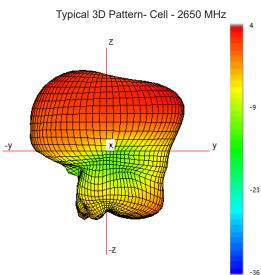


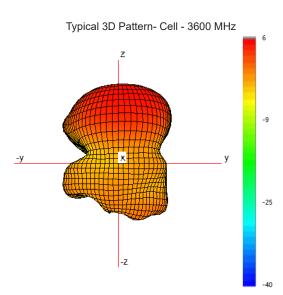


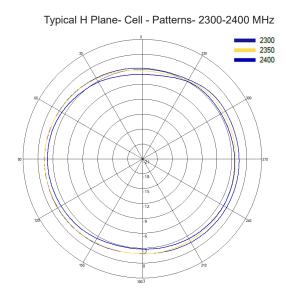
Panorama Antennas Ltd Frogmore, London, SW18 1HF, United Kingdom T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com W: www.panorama-antennas.com

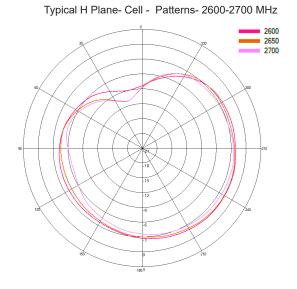
3D Pattern Data in Free Space on bracket Cell

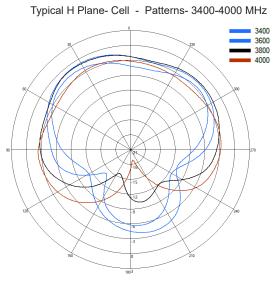








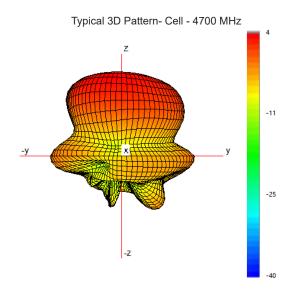


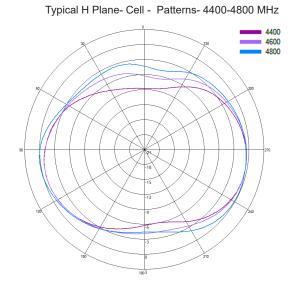




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3D Pattern Data in Free Space on bracket Cell



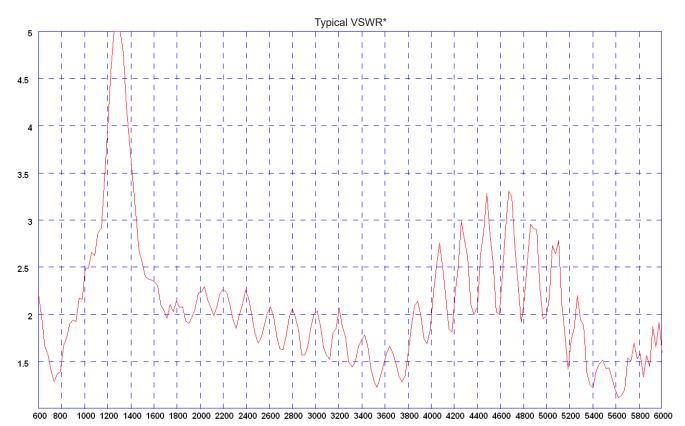




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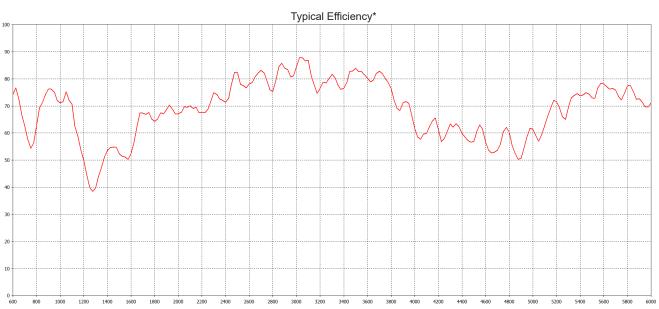
Electrical Data Cell -**Ground Plane**

Measurement Conditions	4G/5G Antenna			
	Frequency Range (MHz)	LTE Bands	Peak Gain (dBi)	Efficiency (%)
LPBSC-6-60 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable	617-698	71, 105	3.8	71
######################################	699-798	12,13, 14 17,28	3.1	59
ALL MARKET MARKET STATES	807- 862	5,19,20,26,27	3.5	69
	880-960	8	3.9	75
	1427-1518	11, 21, 74,75,76	4.1	54
	1710-1920	2,3,4,9,25,35,39,66	4.7	67
	1920-2170	1,23	4.6	69
	2300-2400	30,40	4.1	73
	2496-2690	7,38,41	4.7	80
	3300-4200	22,42,43,48,77,78	6.7	74
	4400-5000	79	5.6	57

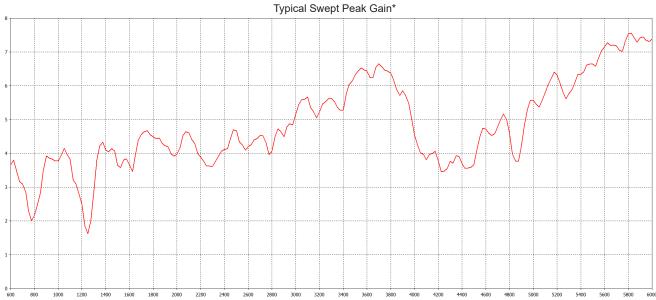


*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

Electrical Data Cell -**Ground Plane**

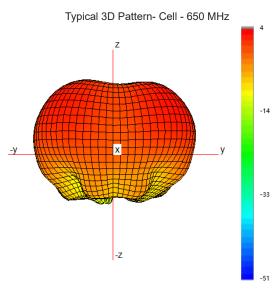


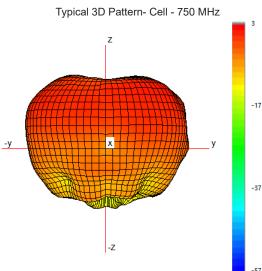
*Efficiency measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

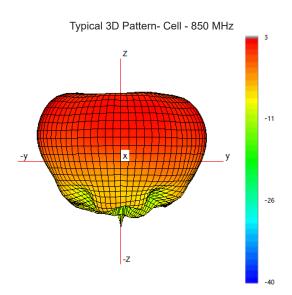


*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

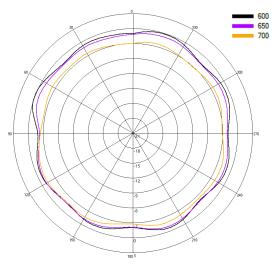
3D Pattern Data on **Ground Plane Cell**



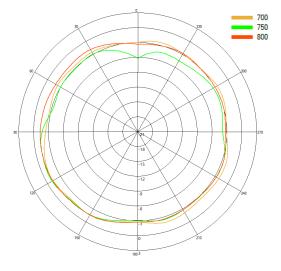




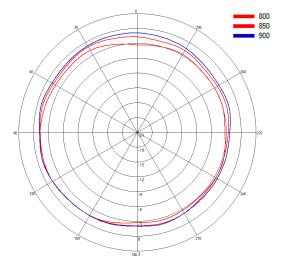
Typical H Plane- Cell - Patterns- 600-700MHz



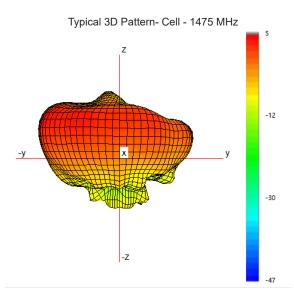
Typical H Plane- Cell - Patterns- 700-800MHz

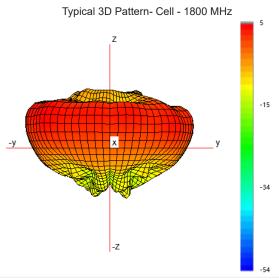


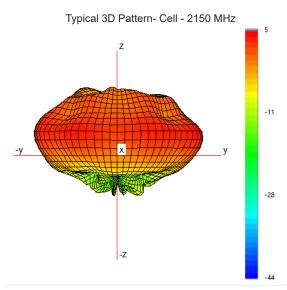
Typical H Plane- Cell - Patterns- 800-900MHz

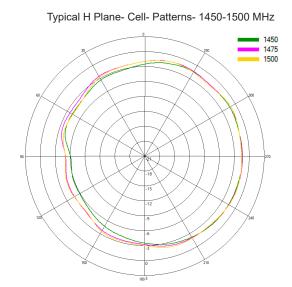


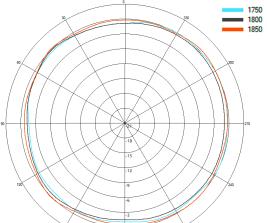
3D Pattern Data on **Ground Plane Cell**



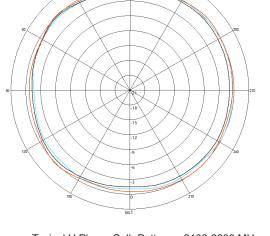


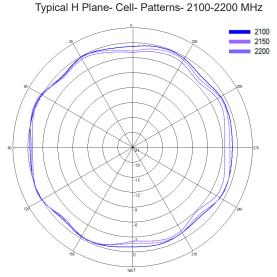




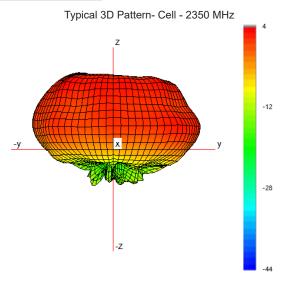


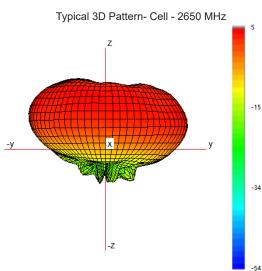
Typical H Plane- Cell- Patterns- 1750-1850 MHz

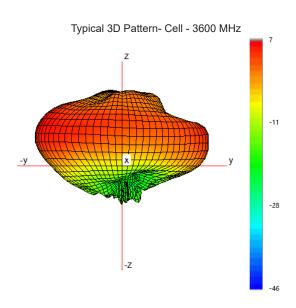




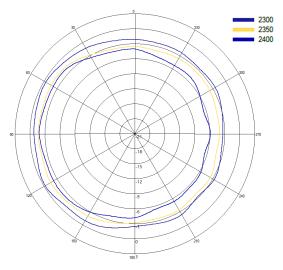
3D Pattern Data on **Ground Plane Cell**



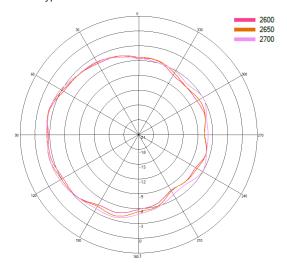




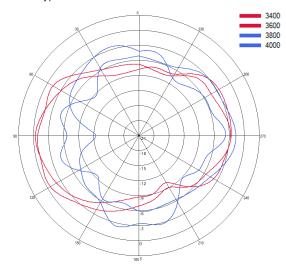
Typical H Plane- Cell - Patterns- 2300-2400 MHz



Typical H Plane- Cell - Patterns- 2600-2700 MHz



Typical H Plane- Cell - Patterns- 3400-4000 MHz





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3D Pattern Data on **Ground Plane Cell**

