IOT & Smart Metering

Wall Mount Low Profile

V2 04/08/16

LPW-BC3G-26

Low profile, vandal & tamper proof design
Simple adhesive pad or screw fix installation
Covers global cellular & LTE bands
Suitable for mounting on metallic or non metallic surfaces*

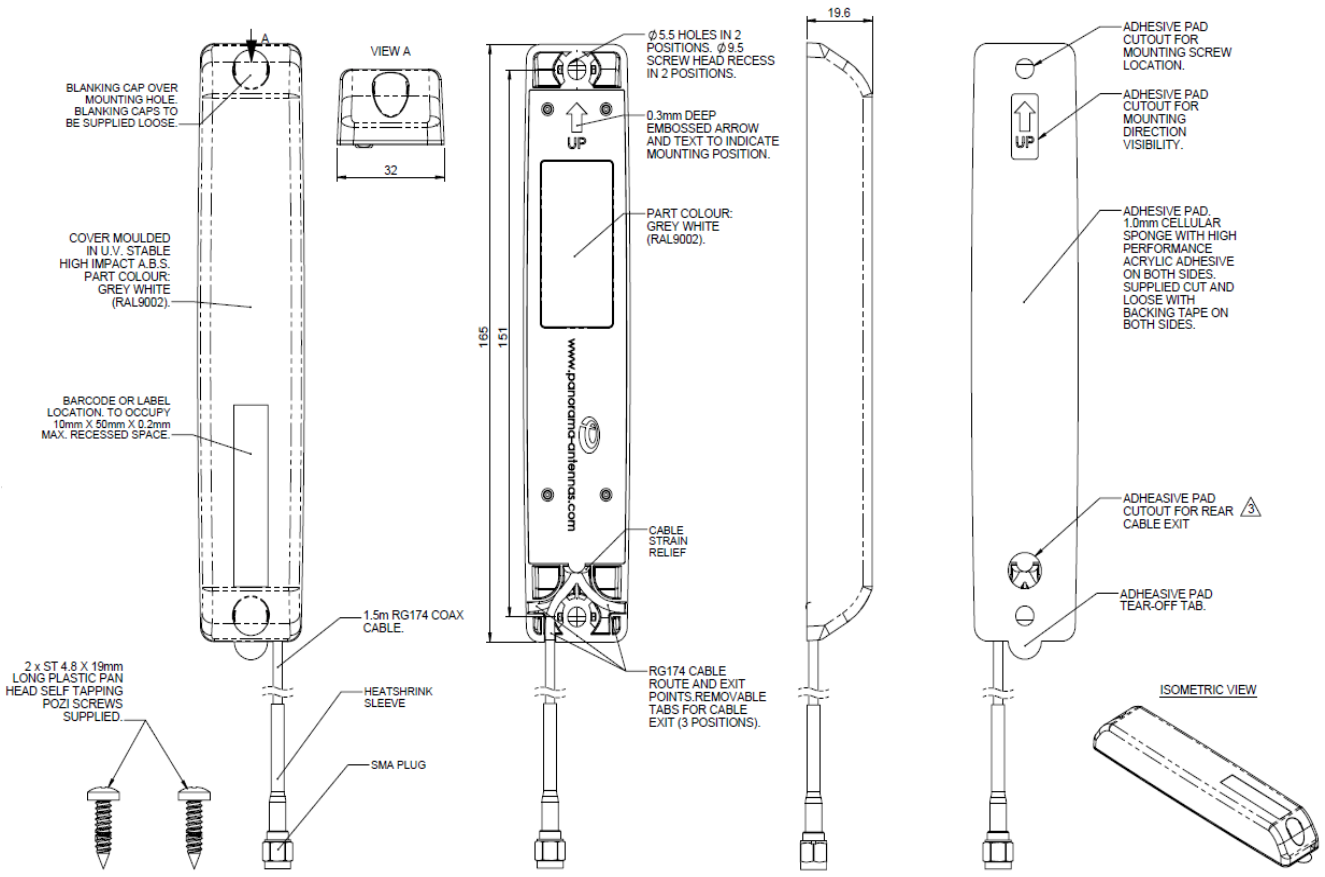
The Panorama LPW range of antennas are designed to decrease the lifetime cost of M2M and smart metering installations by offering a robust, effective antenna that is easy to install and lasts the lifetime of the installation without the need for maintenance.

The antenna offers ground-plane independent omni-directional performance across global cellular and LTE bands making it a versatile solution for any number of applications. The efficient element design ensures a high first time connection rate and an ongoing, robust communications link even in problematic coverage areas.

The antenna can be installed using the supplied automotive grade adhesive pad or via the integrated screw mounting bosses. If the antenna is panel mounted the cable can be routed through a hole in the adhesive pad to run invisibly into the panel behind.

*Perfomance may change based on mounting surface.

Technical Drawing

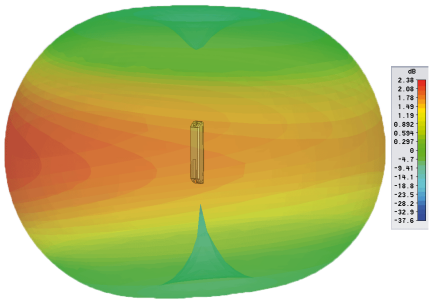


Part No.		
		LPW-BC3G-26-2SP
Electrical Data		
Frequency Range (MHz)		698-960, 1710-2700
Operational Band		LTE 700 / LTE 800 / AMPS 850 / GSM 900 / GSM 1800 / PCS 1900 / AWS / 3G UMTS 2100 / LTE 2600
Typical VSWR		< 2:1
Typical Peak Gain: Isotropic		2dBi
Compared to ¼ wave		0dB
Pattern		Omni-directional
Impedance		50Ω
Max Input Power (W)		20W
Mechanical Data		
Dimensions (mm)	Height	19.6 (0.77")
	Length	165 (6.5")
	Width	32 (1.26")
Operating Temp (°C)		-30° / +70°C (-22ºF / 158 ºF)
Material		ASA
Colour		Telegray RAL 7047
Ingress protection		Equivalent to IP66 when properly installed
Mounting Data		
Fixing		Industrial grade acrylic adhesive pad / 2x 4.8mm (0.18")screws
Cable Data		
Type		RG174
Thickness (mm)		2.8 (0.11")
Length (m)		2 (6' 6")
Termination		SMA Plug†

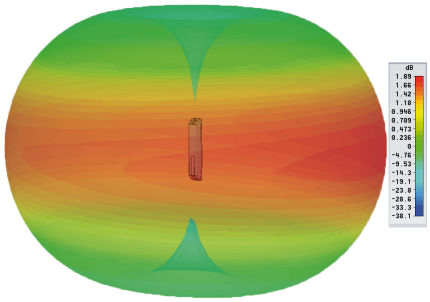
† Other connectors and micro connectors available

3D Patterns of Antenna in Free Space

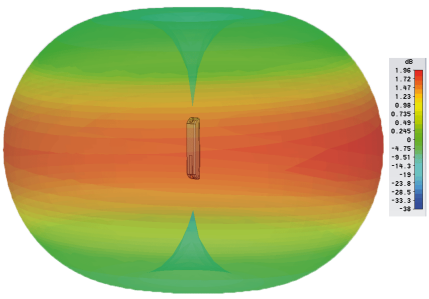
Typical 3D Pattern (700MHz)



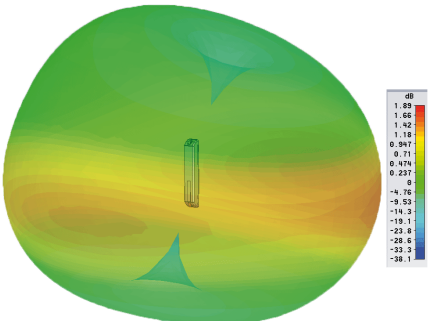
Typical 3D Pattern (800MHz)



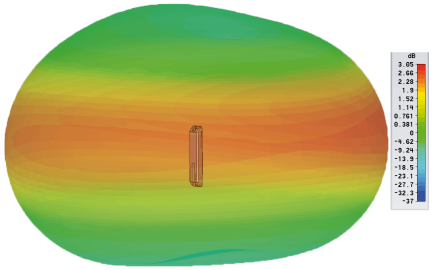
Typical 3D Pattern (900MHz)



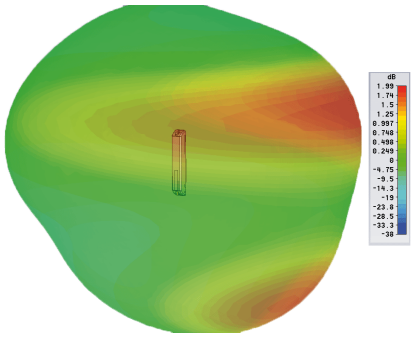
Typical 3D Pattern (1800MHz)



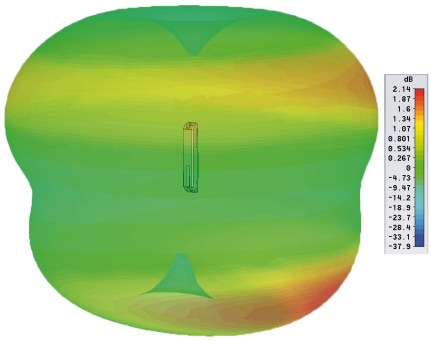
Typical 3D Pattern (1900MHz)



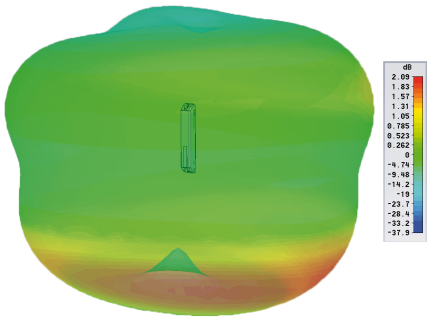
Typical 3D Pattern (2100MHz)



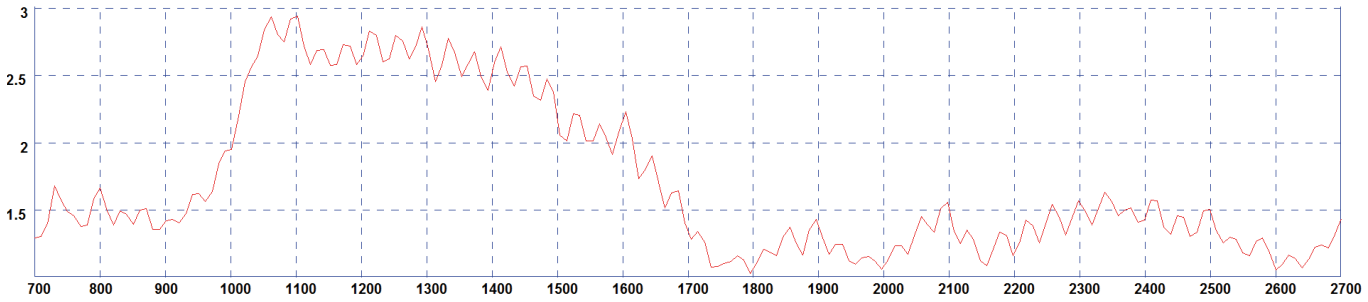
Typical 3D Pattern (2400MHz)



Typical 3D Pattern (2600MHz)

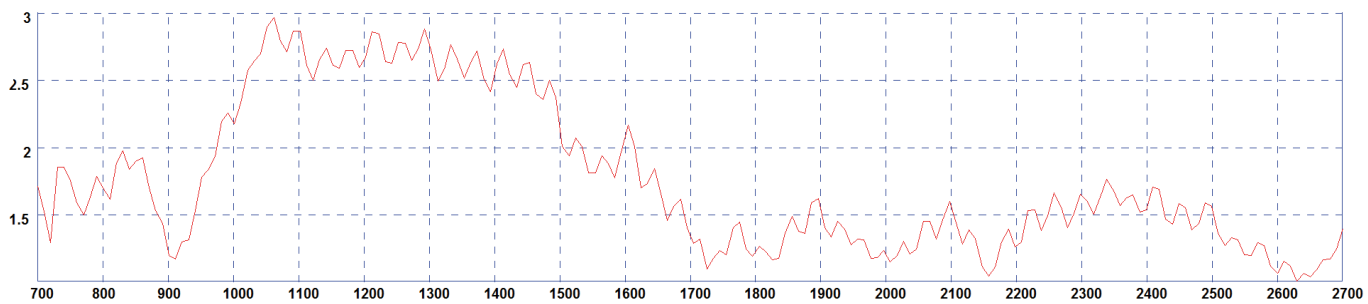


Typical VSWR of Antenna in Free Space*



* VSWR measured in free space with 2m (6.6') of RG174 cable

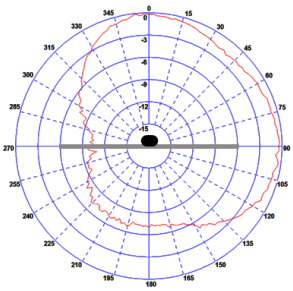
Typical VSWR on 350 x 350mm Ground Plane*



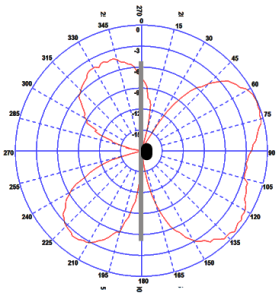
* VSWR measured mounted on a 350 x 350mm (14" x14") with 2m (6.6') of RG174 cable

E and H Plane Patterns Mounted on 350 x 350mm Ground Plane

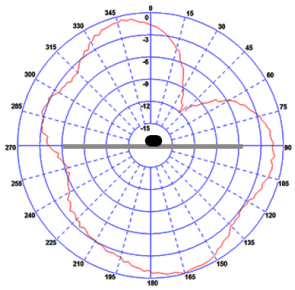
Typical H-Plane (750MHz)



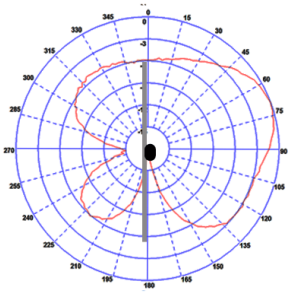
Typical E-Plane (750MHz)



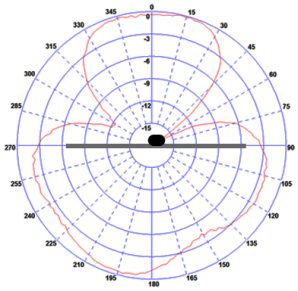
Typical H-Plane (850MHz)



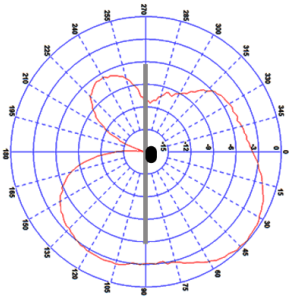
Typical E-Plane (850MHz)



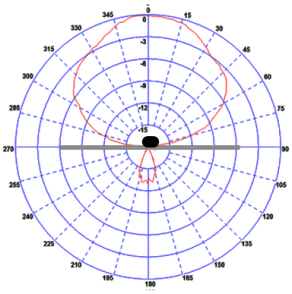
Typical H-Plane (900MHz)



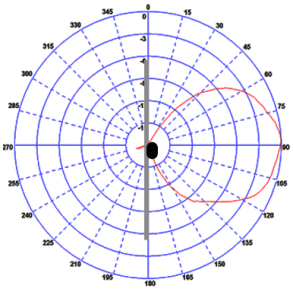
Typical E-Plane (900MHz)



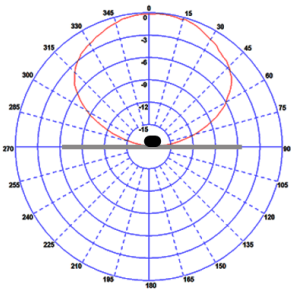
Typical H-Plane (1800MHz)



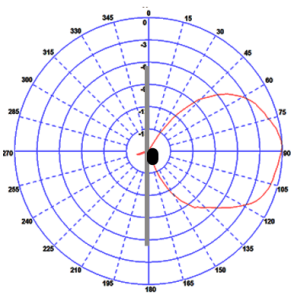
Typical E-Plane (1800MHz)



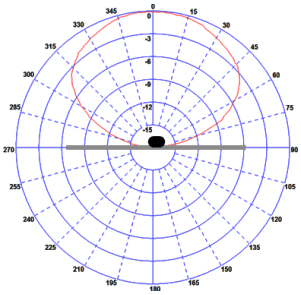
Typical H-Plane (1900MHz)



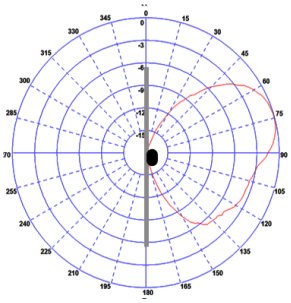
Typical E-Plane (1900MHz)



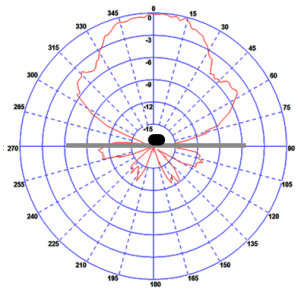
Typical H-Plane (2100MHz)



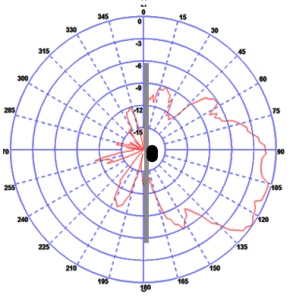
Typical E-Plane (2100MHz)



Typical H-Plane (2600MHz)



Typical E-Plane (2600MHz)



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