

4G/5G Bracket Antenna

B4BE[E]-6-60

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- Cost Effective 2G/3G/4G/5G antenna solution
- Wall, Mast or Cabinet/Enclosure Mount
- Integrated Coaxial Cable

The B4BE[E] antenna is a cost effective omni-directional broad band antenna range for 4G/3G/2G and 5G devices. It covers 617-960/1710-6000MHz and is suitable for external or internal installation.

The mounting bracket enables simple wall/panel mounting using the supplied screws and wall plugs or mast mounting using a pipe clip or cable ties (not supplied).

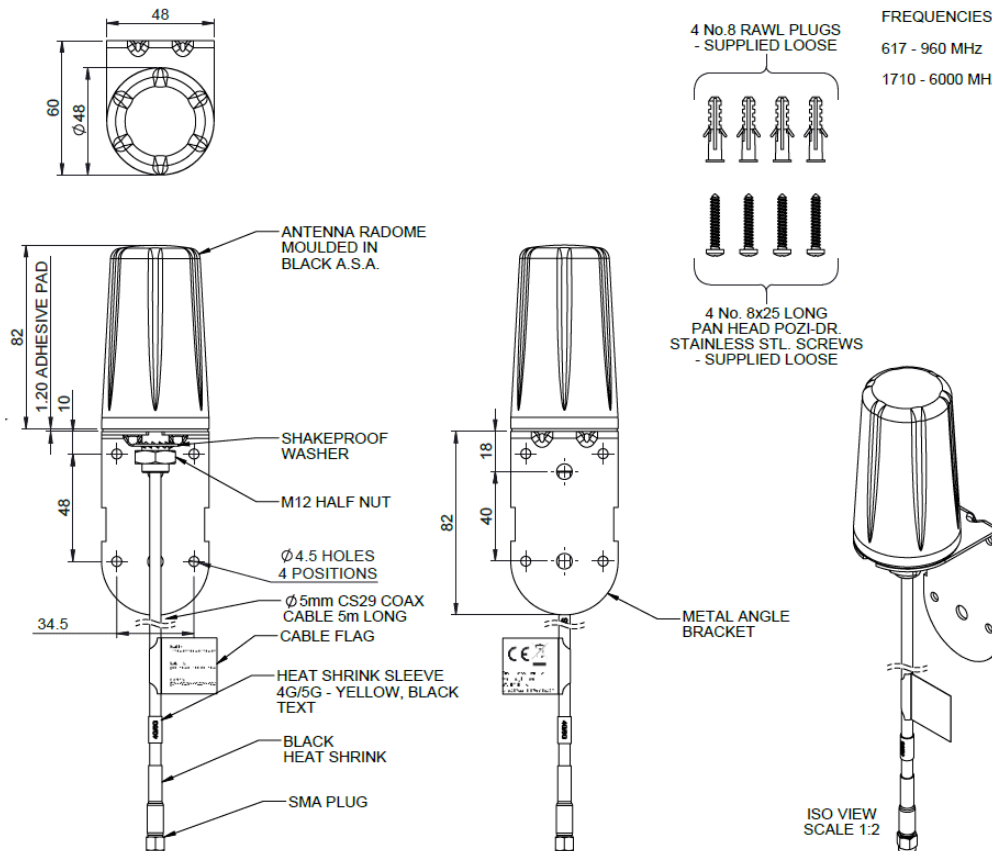
The omni-directional radiation pattern allows easy placement of the antenna in an elevated position, without requiring directional alignment.

The B4BE type is supplied with an integrated ultra-low loss CS29 coaxial cable and the B4BEE variant is supplied with RG174 cable, more suitable for shorter cable runs and direct fitment of micro type connectors.

This antenna is an ideal solution for IoT use in industrial and domestic environments for cellular modems/routers and Machine to Machine (M2M) wireless connectivity applications.

Technical Drawing

B4BE-6-60-5SP Shown



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Product Data

Part No.			
B4BE-6-60-05SP		B4BE-6-60-2SP	B4BE-6-60-5SP
Electrical Data			
Frequency Range (MHz)		617-960 / 1710-6000	
Operational Band		2G/3G/4G/5G	
Peak Realised Gain: Isotropic*	617-960MHz	2dBi	
	1710-2700 MHz	3.5dBi	
	3400-3800MHz	5dBi	
	4.9-6000Mhz	7dBi	
VSWR		<2.5:1	
Nominal Radiated Efficiency*		> 70%	
Polarisation		Vertical	
Pattern		Omni-directional	
Impedance		50Ω	
Max Input Power (W)		30	
Mechanical Data			
Dimensions (mm)	Height mounted	164 (6.46")	
	Diameter	48(1.89")	
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)	
Material		ASA, aluminium, zinc plated steel	
Material Approvals		Radome ASA Material - UL 746C F2, UL 94-HB	
Colour		Black & natural	
Ingress Protection		IP66	
Mounting Data			
Fixing		Wall or mast mount	
Mounting Scew Diameter (mm)		4 (0.16")	
Weight (g)	188	219	390
Cable Data			
Type		CS29 (Double Shielded RG58)	
Diameter (mm)	5 (0.19")	2.8 (0.1")	5 (0.19")
Length (m)	0.5 (1.5')	2 (6' 6")	5 (17')
Termination		SMA Plug	

* Peak gain and efficiency simulated in CST microwave studio on a bracket excluding cable loss

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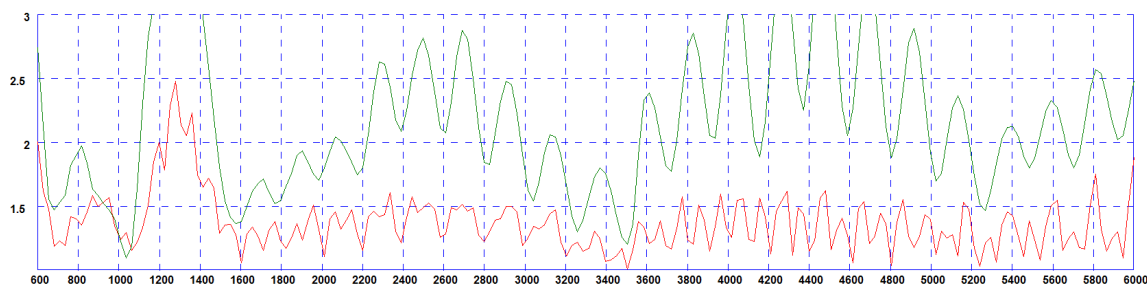
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Electrical Data - Cell

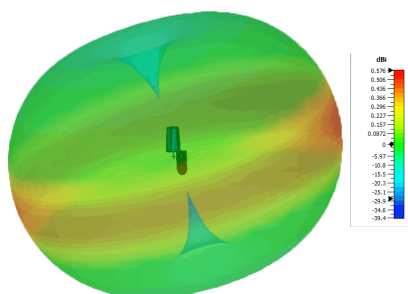
Typical VSWR*



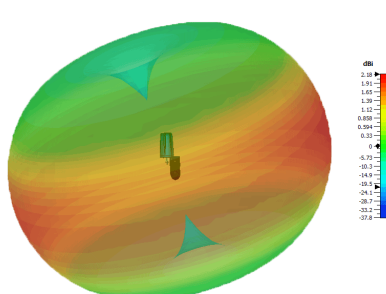
*Red Plot =VSWR measured on supplied bracket with 5m (16') of CS29 cable. Green Plot = VSWR measured on supplied bracket with 0.5m (1.5') of CS29 cable.

3D Patterns - Cell

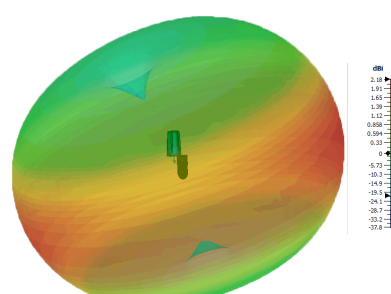
3D Plot (600 MHz)



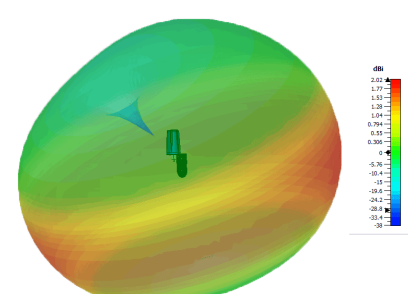
3D Plot (700MHz)



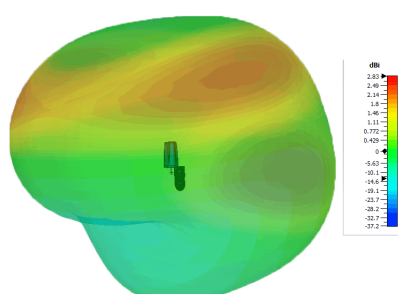
3D Plot (800MHz)



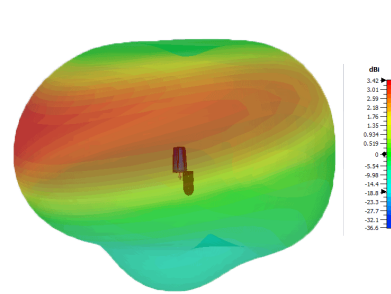
3D Plot (900MHz)



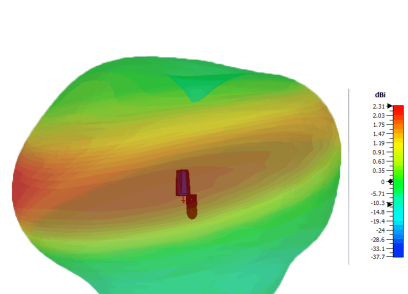
3D Plot (1800MHz)



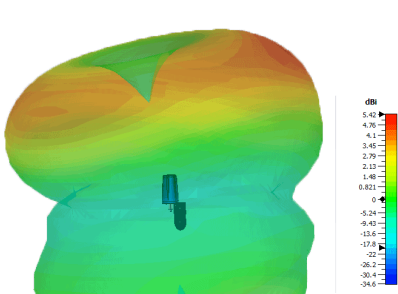
3D Plot (2100MHz)



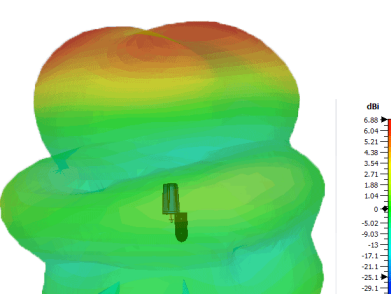
3D Plot (2600 MHz)



E Plane Plot (3600MHz)



H Plane Plot (5400MHz)



All measurements simulated in CST Microwave Studio without cable

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