

4G/5G Bracket Antenna

B4BE[E]-6-60



- 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).

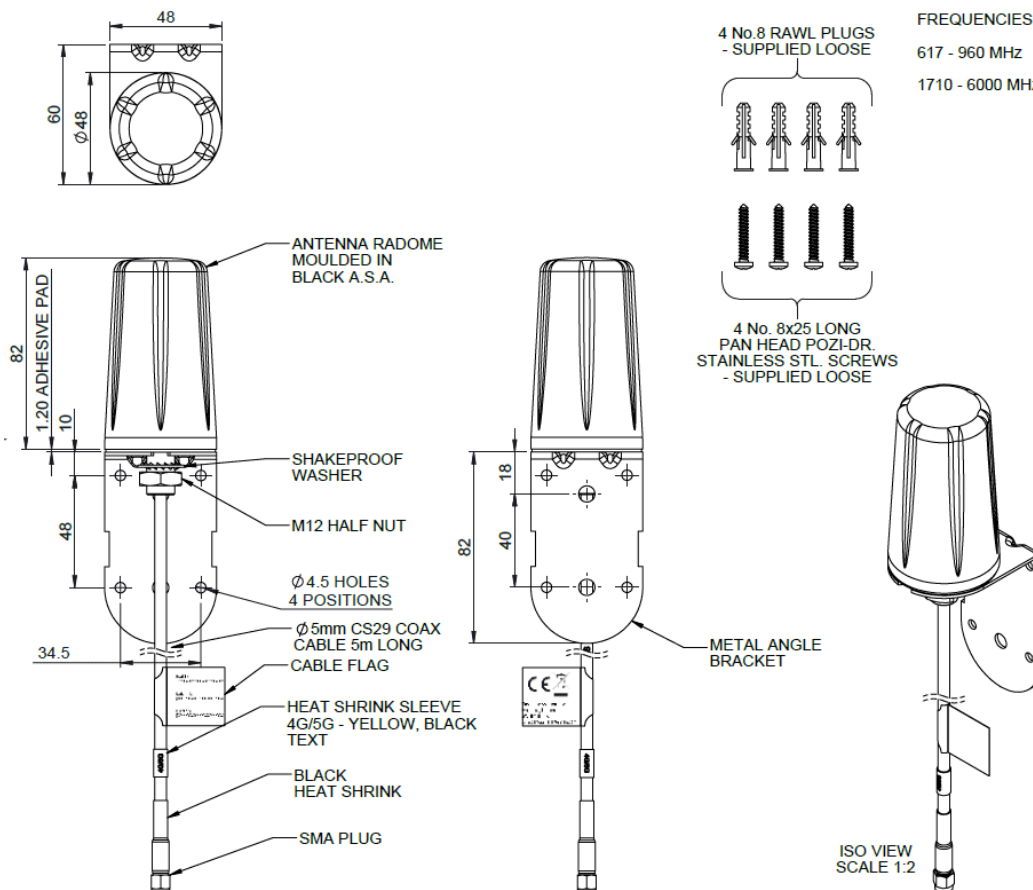
The omni-directional radiation pattern allows easy placement of the antenna in an elevated position, without requiring directional alignment.

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



4G/5G Bracket Antenna

B4BE[E]-6-60

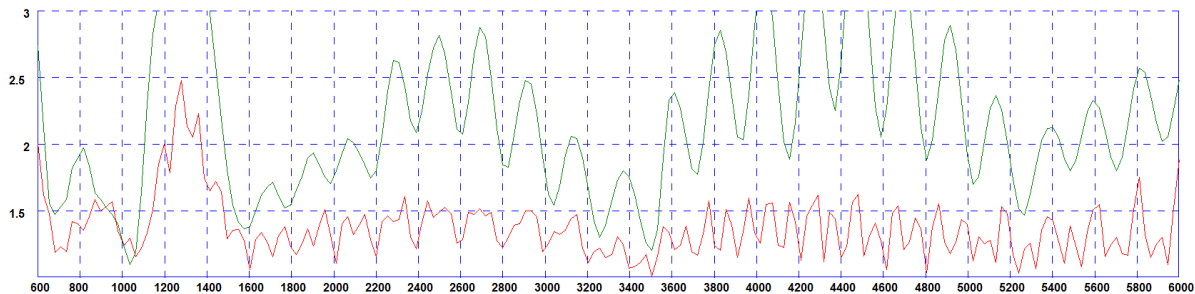
Product Data

Part No.		B4BE-6-60-05SP	B4BE-6-60-5SP	B4BEE-6-60-2SP
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 Screw Diameter (mm)		4 (0.16")		
Weight (g)	188	390	219	
Cable Data				
Type	CS29 (double shielded RG58)		RG174	
Diameter (mm)	5 (0.19")		2.8 (0.1")	
Length (m)	0.5 (1.5')	5 (17')	2 (6' 6")	
Termination		SMA plug		

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

Electrical Data - Cell

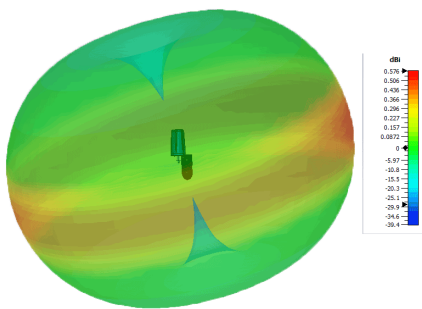
Typical VSWR*



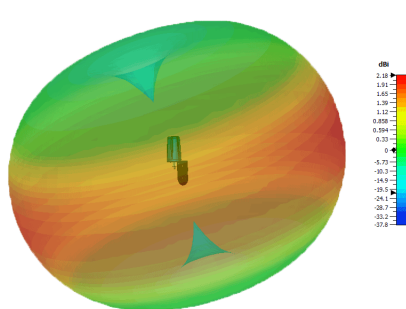
*Red Plot =VSWR measured on supplied bracket with 5m (16') of CS29 cable. Green Plot = VSWR measured on supplied bracket with 0.5m (1.5') of CS29 cable.

3D Patterns - Cell

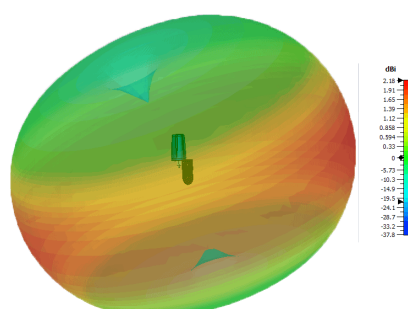
3D Plot (600 MHz)



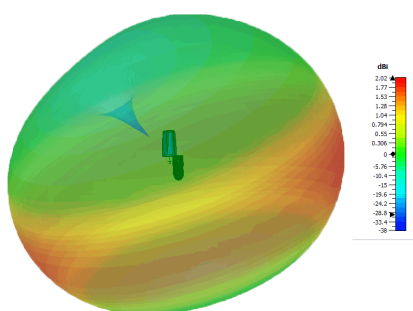
3D Plot (700MHz)



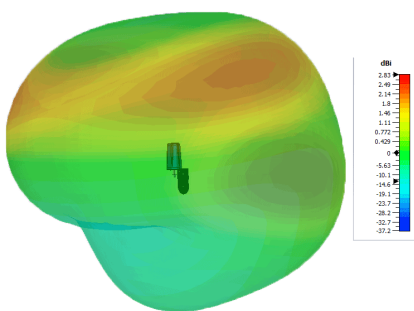
3D Plot (800MHz)



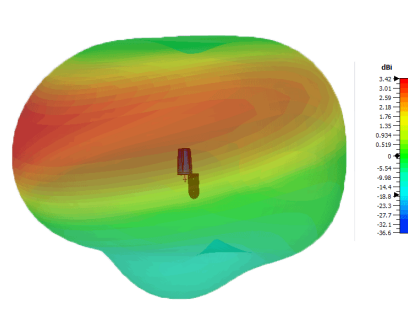
3D Plot (900MHz)



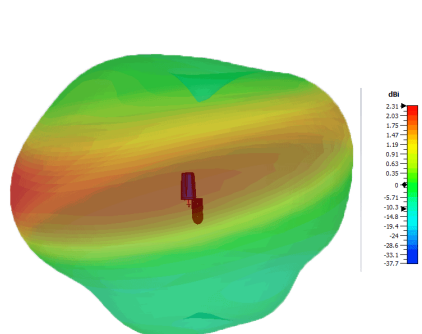
3D Plot (1800MHz)



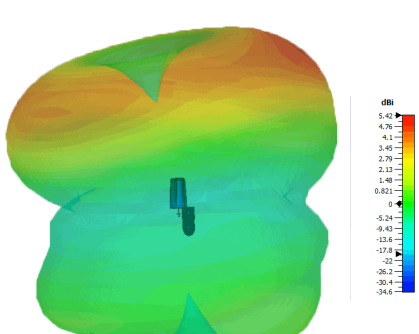
3D Plot (2100MHz)



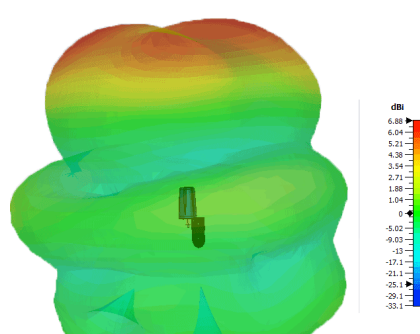
3D Plot (2600 MHz)



E Plane Plot (3600MHz)



H Plane Plot (5400MHz)



All measurements simulated in CST Microwave Studio without cable