

4G/5G Bracket Antenna

B4BEFR-6-60



- Cost effective 2G/3G/4G/5G antenna solution
- Wall, mast or cabinet/enclosure installation
- Integral flame retardant coaxial cable
- High impact flame retardant radome

The B4BEFR-6-60 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 & wall plugs or mast mounting using a pipe clip or cable ties (not supplied).

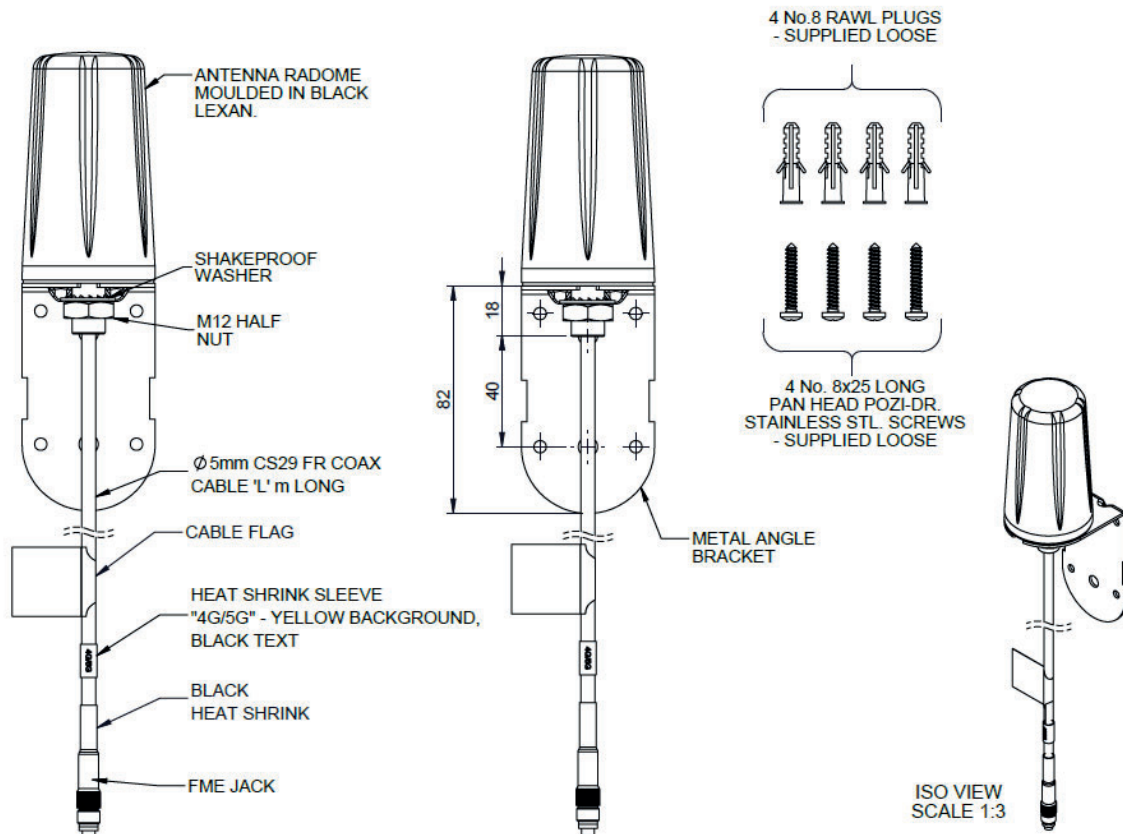
The omni-directional radiation pattern allows easy placement of the antenna in an elevated position, without requiring directional alignment.

The B4BEFR-6-60 antenna is supplied with an integral low loss flame retardant CS29 coaxial cable and a high impact flame retardant Lexan radome.

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 where flame retardant components are required.

Technical Drawing

B4BEFR-6-60-5F Shown



4G/5G Bracket Antenna

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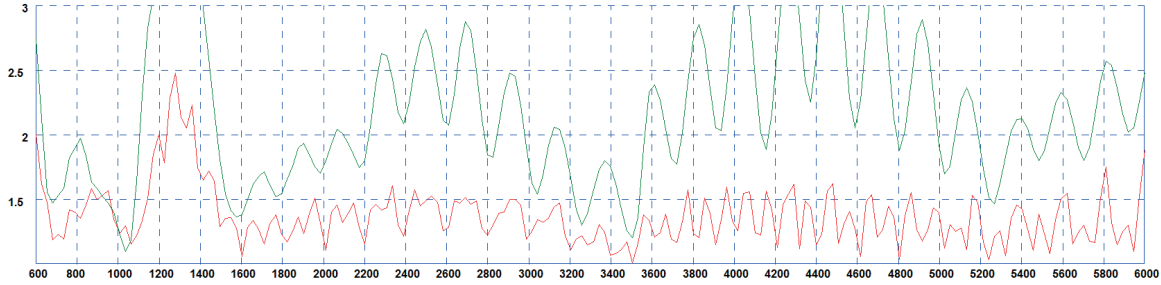
Product Data

Part No.		B4BEFR-6-60-5SP	B4BEFR-6-60-5F
Electrical Data			
Frequency Range (MHz)	617-960 / 1710-6000		
Operational Band	2G / 3G / 4G / 5G		
Peak Realised Gain: Isotropic*	617-960MHz	2dBi	
	1710-2700MHz	3.5dBi	
	3400-3800MHz	5dBi	
	4.9-6GHz	7dBi	
VSWR	<2.5:1		
Nominal Radiated Efficiency*	> 70%		
Polarisation	Vertical		
Pattern	Omni-directional		
Impedance	50Ω		
Max Input Power (W)	30		
Mechanical Data			
Dimensions	Height mounted	164mm (6.46")	
	Diameter	48mm (1.89")	
Operating Temp (°C)	-40° / +85°C (-40° / 185°F)		
Material	Lexan EXL 9330, aluminium, zinc plated steel		
Material Approvals	Radome Lexan Material - UL 746C F1, UL 94-V0		
Colour	Black		
Ingress Protection	IP66		
Mounting Data			
Fixing	Wall or mast mount		
Mounting Screw Diameter	4mm (0.16")		
Weight (g)	390	390	
Cable Data			
Type	FR CS29 (Meets UN ECE R118 and EN45545 - HL2)		
Diameter	5mm (0.19")		
Length	5m (16.4')		
Termination	SMA Plug (m)	FME Socket (f)	

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

Electrical Data - Cell

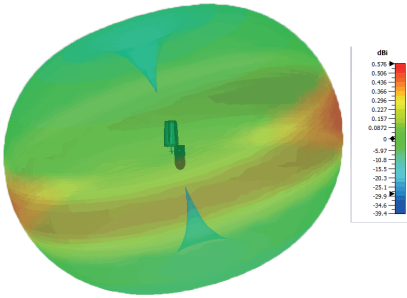
Typical VSWR*



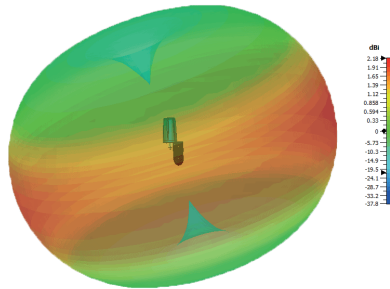
*Red Plot =VSWR measured on supplied bracket with 5m (16') of CS29 cable. Green Plot = VSWR measured on supplied bracket with 0.5m (1.5') of CS29 cable.

3D Patterns - Cell

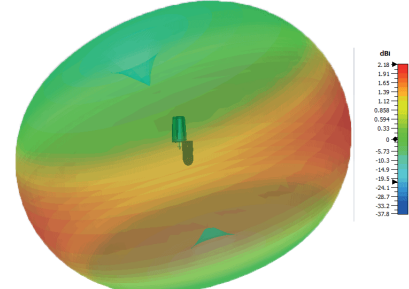
3D Plot (600 MHz)



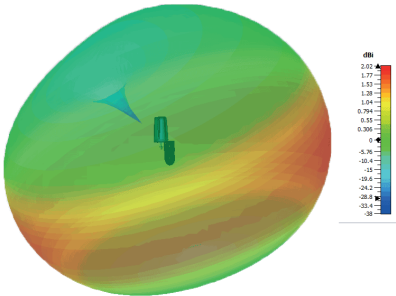
3D Plot (700MHz)



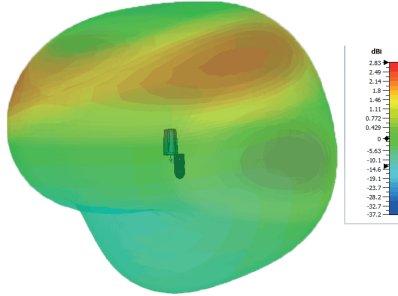
3D Plot (800MHz)



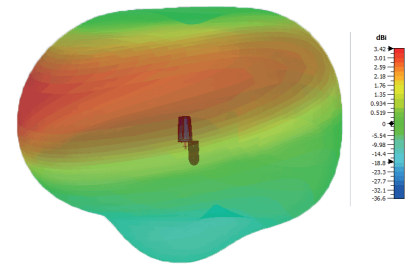
3D Plot (900MHz)



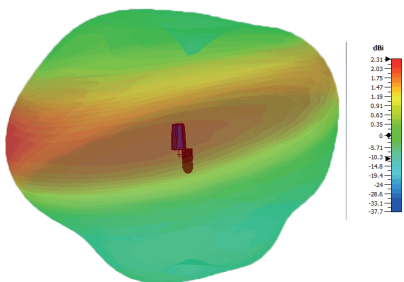
3D Plot (1800MHz)



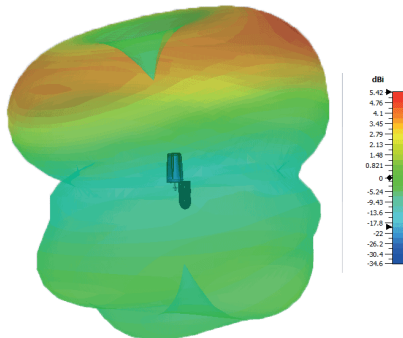
3D Plot (2100MHz)



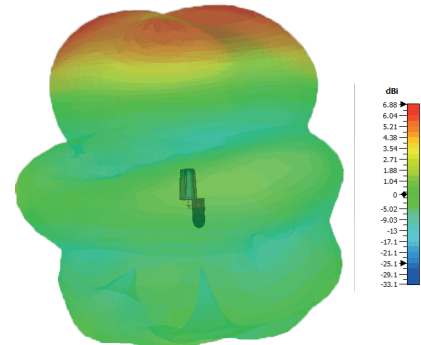
3D Plot (2600 MHz)



E Plane Plot (3600MHz)



H Plane Plot (5400MHz)



All measurements simulated in CST Microwave Studio without cable