

868MHz Bracket Antenna

B4BEE-868-[VAR]



- Cost effective 868/915MHz performance
- Wall, mast or panel mounted
- Integrated coaxial cable

The B4BEE-868-2SP is a cost effective omni-directional antenna for 868 and 915MHz devices covering 863 - 928MHz and is suitable for external or internal installation.

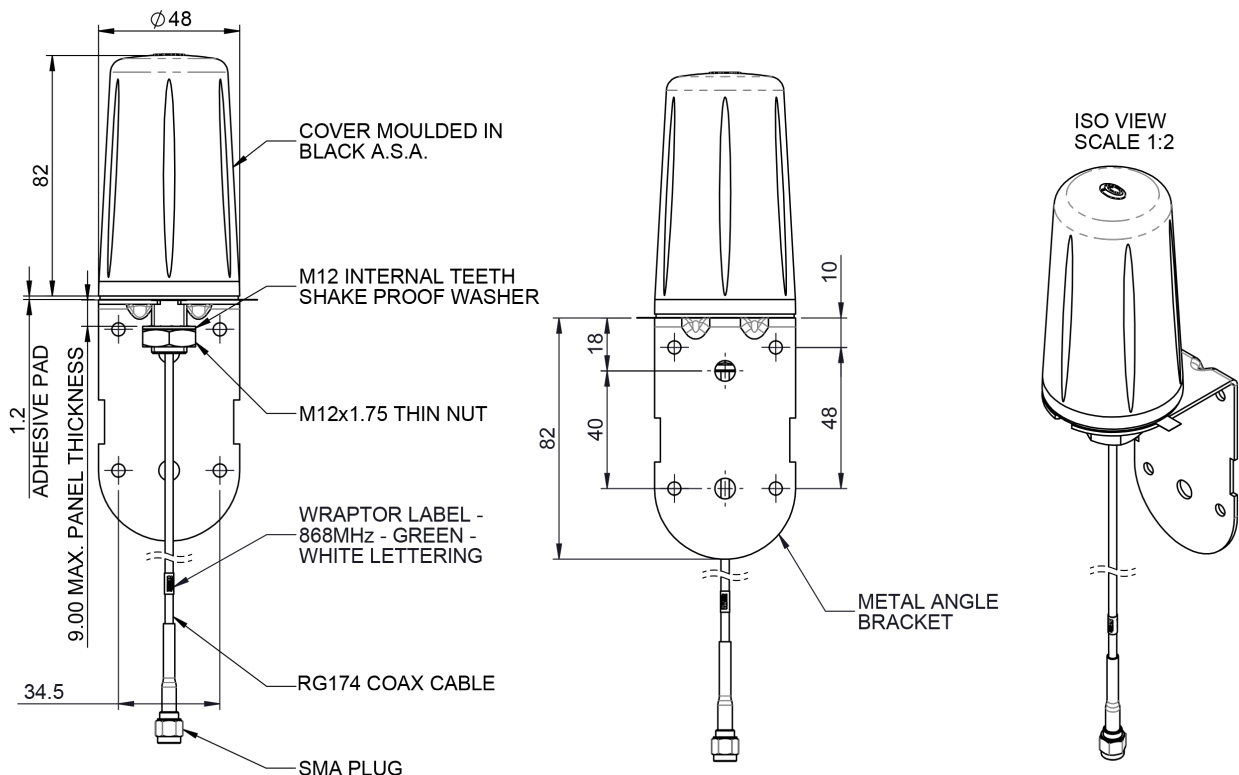
The design of the mounting bracket enables simple wall mounting using screws and wall plugs (not supplied), adhesive pad mounting or mast mounting using a pipe clip or cable ties (not supplied).

The omni-directional radiation pattern allows easy placement of the antenna in an elevated position.

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

Technical Drawing

B4BEE-868-2SP Shown



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Part No.		B4BEE-868-2SP
Electrical Data		
Frequency Range (MHz)	863 - 928MHz	
Operational Band	868 / 915	
Peak Gain*	2.5 dBi	
Typical VSWR**	<2:1	
Polarisation	Vertical	
Pattern	Omni-directional	
Impedance	50Ω	
Max Input Power (W)	25	
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	
Colour	Black	
Ingress Protection	IP65	
Mounting Data		
Fixing	Wall /panel - screw / adhesive or mast mount	
Mounting ScREW Diameter (mm)	4 (0.16")	
Cable Data		
Type	RG174	
Diameter (mm)	2.8(0.1")	
Length (m)	2 (6.6')	
Voltage Withstand	1000 V DC	
Jacket Spark	3000 V RMS	
Termination	SMA (m)	

* Peak gain measured on supplied mounting bracket with 2m (6.6') of RG174 cable.

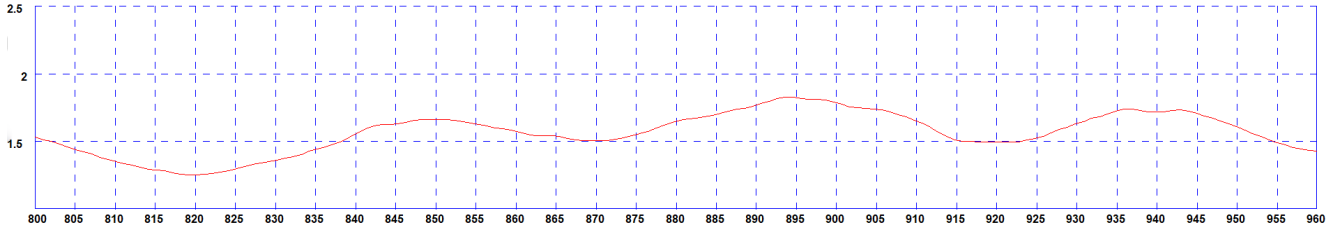
**VSWR measured on supplied mounting bracket with 2m (6.6') of RG174 cable.

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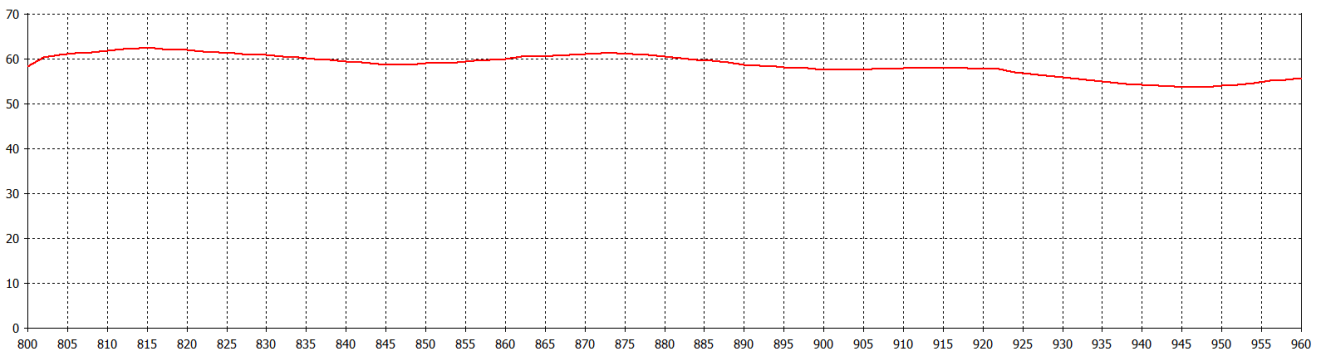
Electrical Data on Bracket

Typical VSWR *



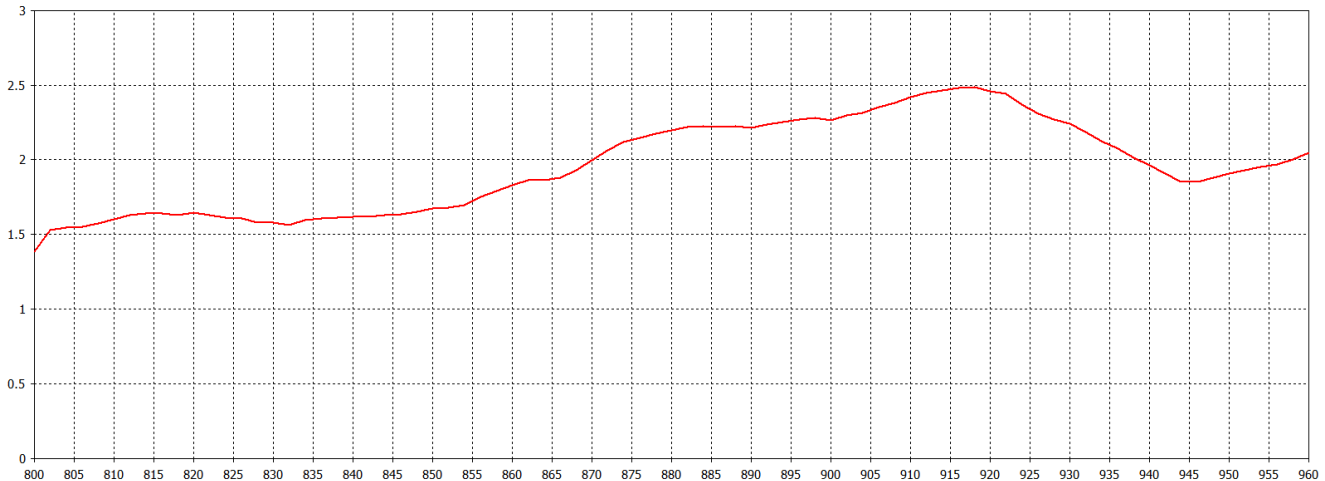
*VSWR measured on bracket in free space with 2m (6.6') of RG174 cable

Typical Efficiency*



*Efficiency measured on bracket in free space with 2m (6.6') of RG174 cable

Typical Swept Peak Gain*



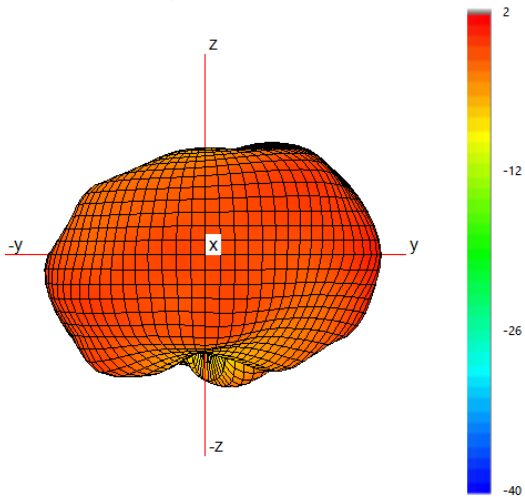
*Swept peak gain measured on bracket in free space with 2m (6.6') of RG174 cable

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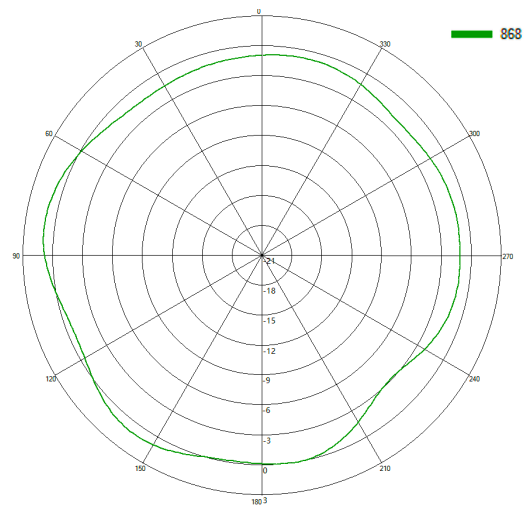
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3D Patterns on Bracket

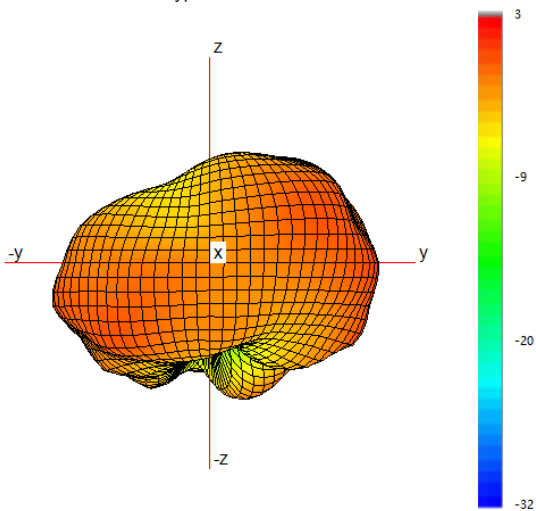
Typical 3D Pattern - 868MHz



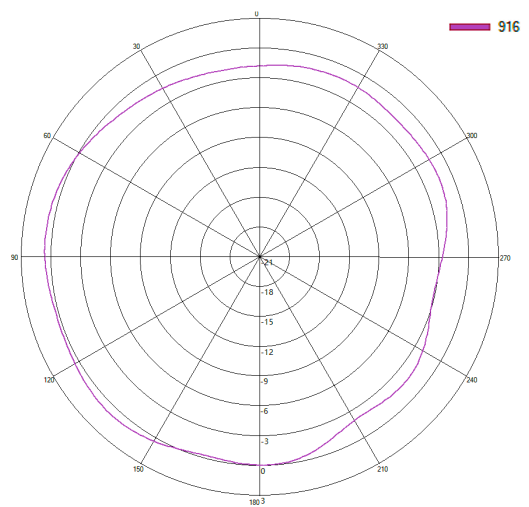
Typical H Plane Pattern - 868MHz



Typical 3D Pattern - 916MHz



Typical H Plane Pattern - 916MHz

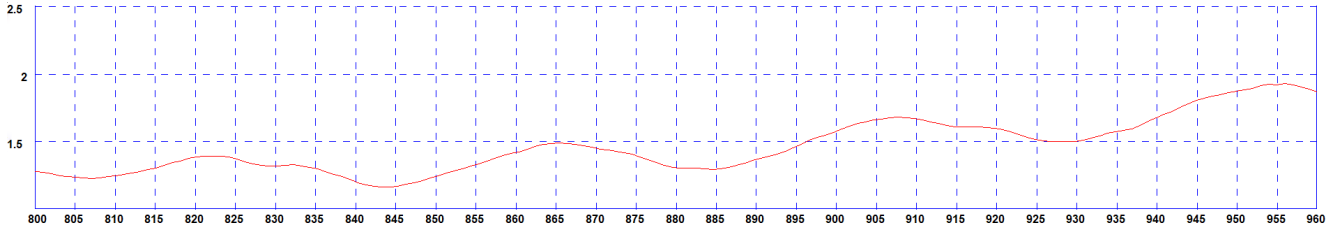


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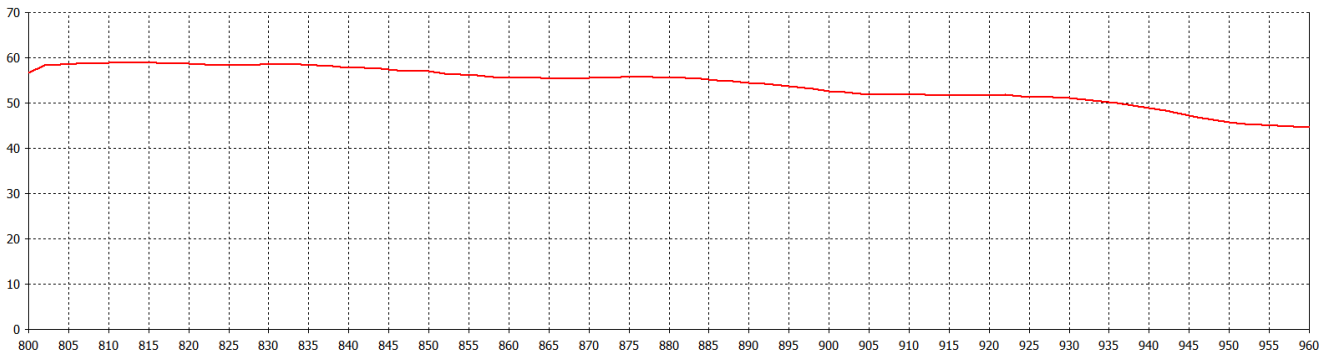
Electrical Data on Ground Plane

Typical VSWR *



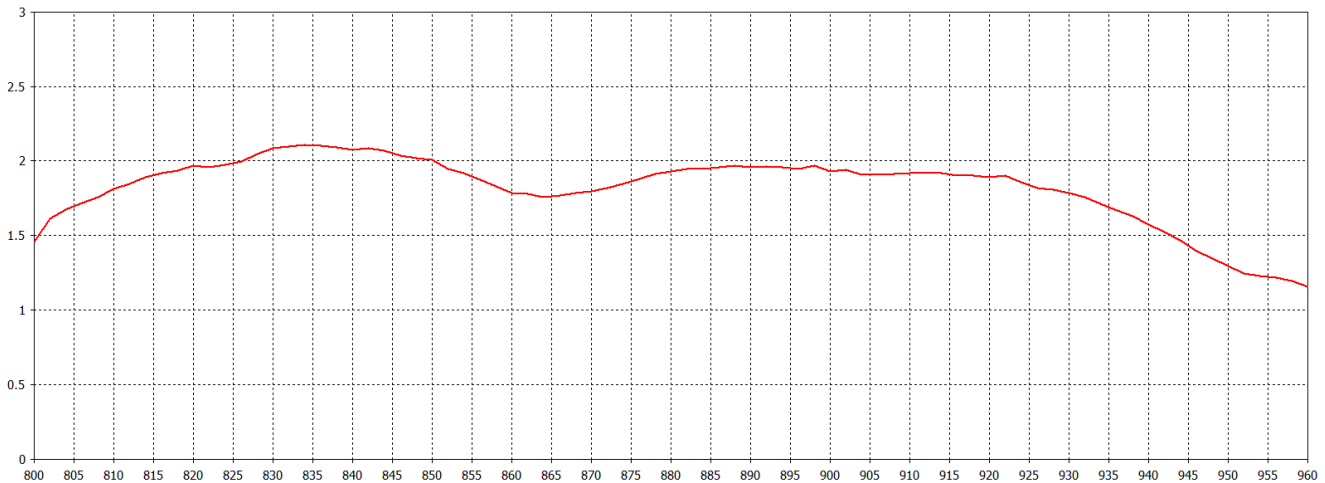
*VSWR measured on 400x400mm (1.3'x1.3') ground plane with 2m (6.6') of RG174 cable

Typical Efficiency*



*Efficiency measured on 400x400mm (1.3'x1.3') ground plane with 2m (6.6') of RG174 cable

Typical Swept Peak Gain*



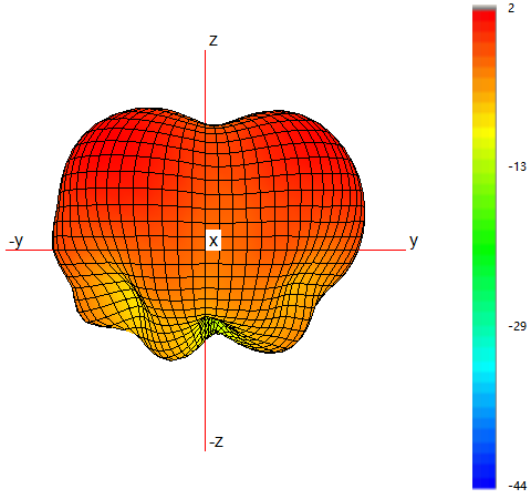
*Swept peak gain measured on 400x400mm (1.3'x1.3') ground plane with 2m (6.6') of RG174 cable

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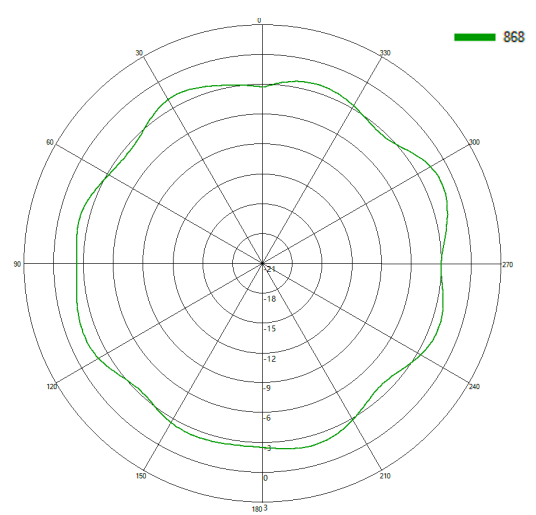
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3D Patterns on
Ground Plane

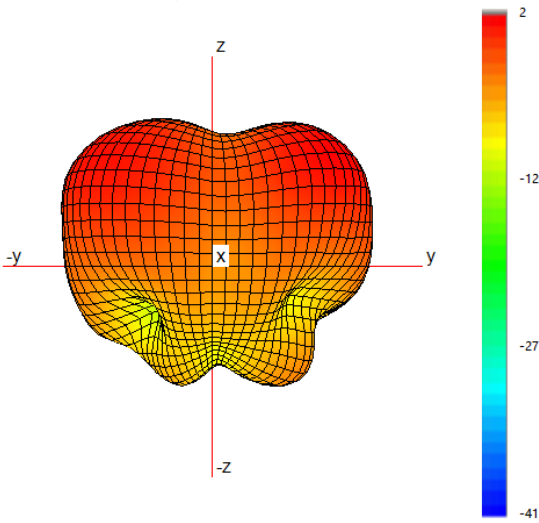
Typical 3D Pattern - 868MHz



Typical H Plane Pattern - 868MHz



Typical 3D Pattern - 916MHz



Typical H Plane Pattern - 916MHz

