

LoRa/Sigfox/ISM Band 863-928MHz Magnetic Mount

PANORAMA ANTENNAS

MAR868-[X]



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- 1/4 wave magnetic antenna covering 863-928MHz
- Magnetic mount - no hole required
- Omni-directional pattern
- RG174 coax cable
- IoT Applications

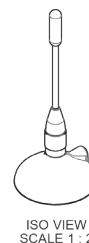
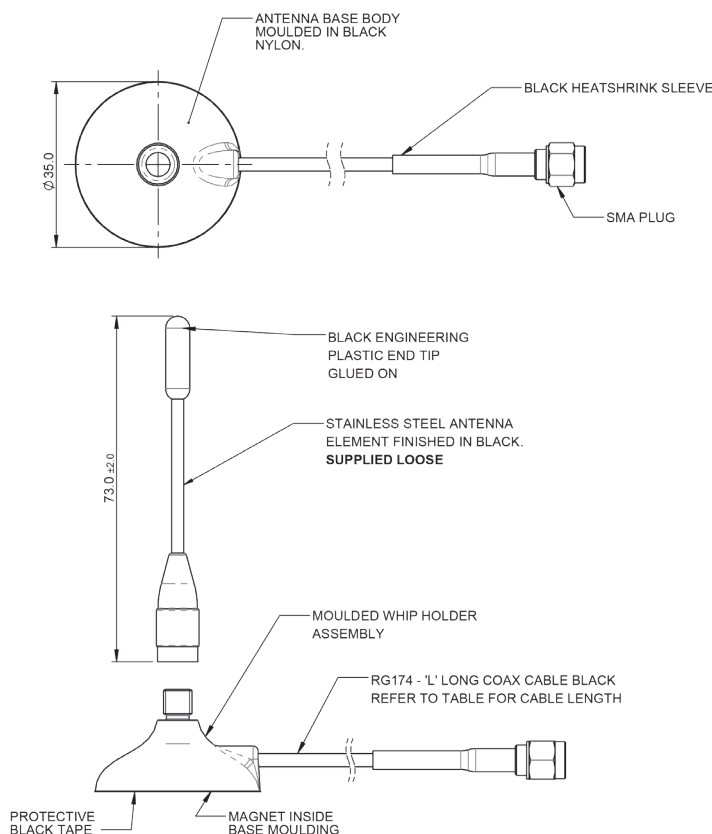
The MAR868-[X] is a high performance, rugged, compact magnetic mount antenna suitable for installations where a temporary solution is required or drilling a hole for a panel mount antenna is not possible.

Suitable for internal and external use, it is ideal for IoT and M2M applications using the 868 / 915 (863-928MHz) bands. The base is fitted with integrated flexible low loss RG174 cable and an SMA plug (m) as standard. Other connectors are available.

The antenna requires a ferrous metal mounting panel for magnetic adhesion.

Technical Drawing

MAR868-[X]SP Shown



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Product Data

Part No		MAR868-2SP
Electrical Data		
Frequency Range (MHz)		863-928
Operational Band		868 / 915
Peak Gain: Isotropic*		4dBi
Typical Efficiency*		>80%
Typical VSWR*		<2:1
Polarisation		Vertical
Pattern		Omni-directional
Impedance		50Ω
Max Input Power (W)		20
Mechanical Data		
Dimensions (mm)	Total Height	88 (3.5")
	Base Height	15 (0.5")
	Base Diameter	35 (1.4")
Operating Temp (°C)		-40°/+80°C (-40°/176°F)
Material		PA6/66, brass and stainless steel
Colour		Black
Mounting Data		
Fixing		Magnetic mount
Cable Data		
Type		RG174
Diameter (mm)		2.8 (0.1")
Length (m)		2.3 (7'6")
Termination		SMA plug (m)

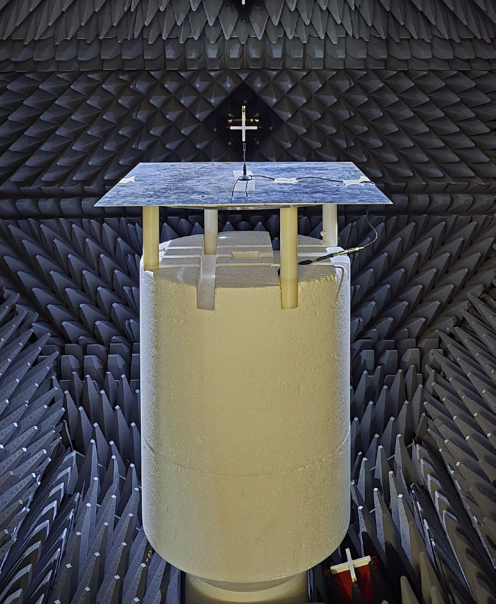
*VSWR, efficiency and peak gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable.

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Electrical Data on
Ground Plane - Whip

Measurement Conditions	LoRa/Sigfox/ISM Antenna				
MAR868-[X] measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 Cable	Frequency Range (MHz)	Whip Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)
	868	868	Whip	3.9	80
	915	915	Whip	4.0	81

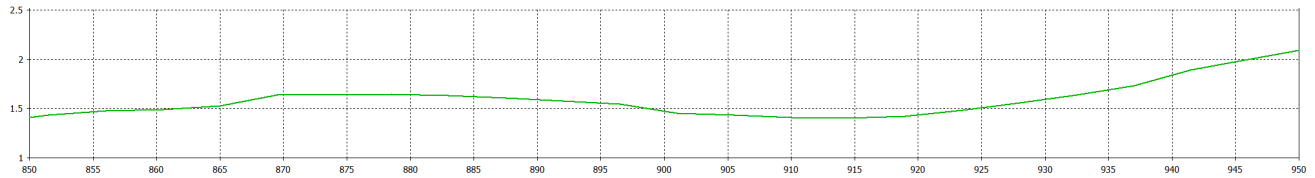
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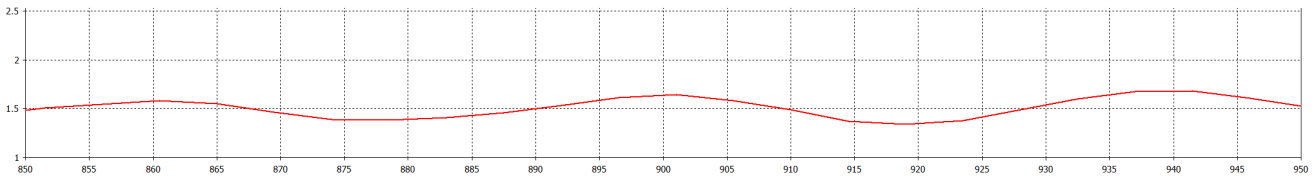
Electrical Data on
Ground Plane - Whip

Typical VSWR*



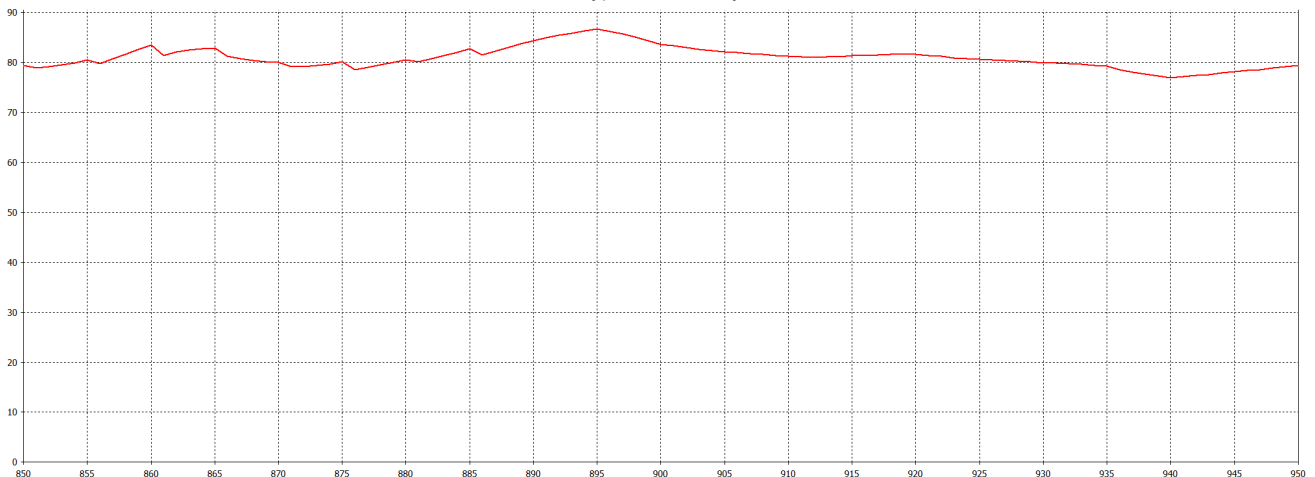
*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable

Typical VSWR*



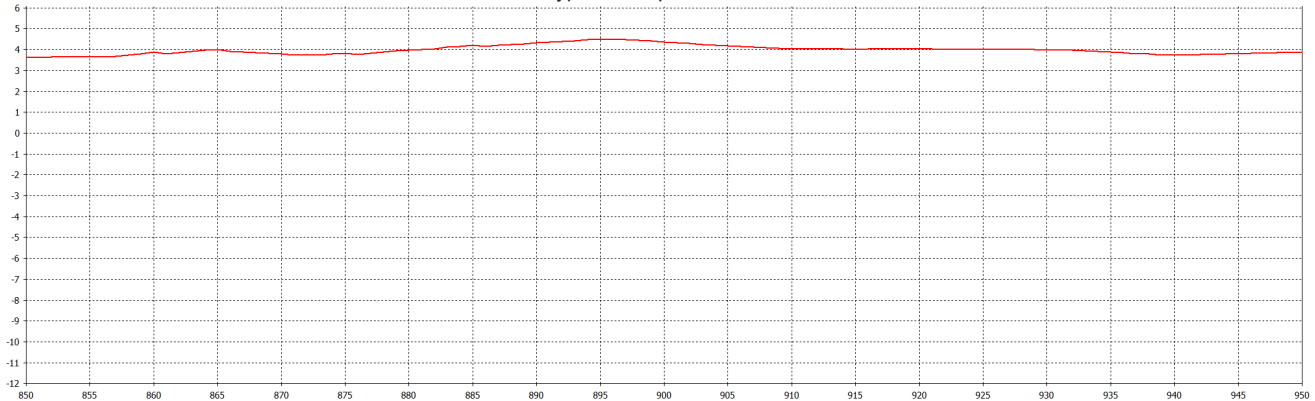
*VSWR measured on 600x600mm (2'x2') ground plane with 2m (6.6') of RG174 cable

Typical Efficiency*



*Efficiency measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable

Typical Swept Peak Gain*



*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable

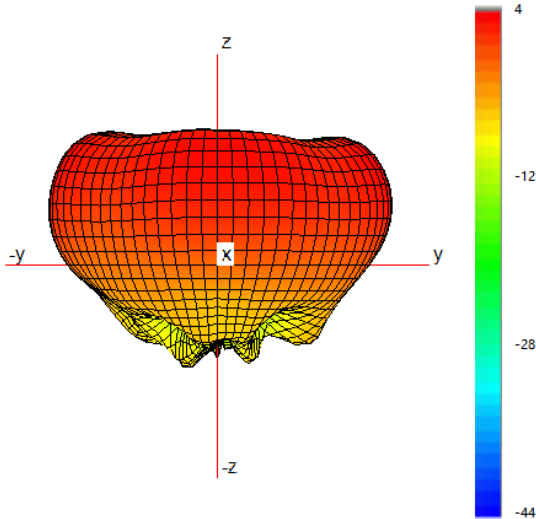
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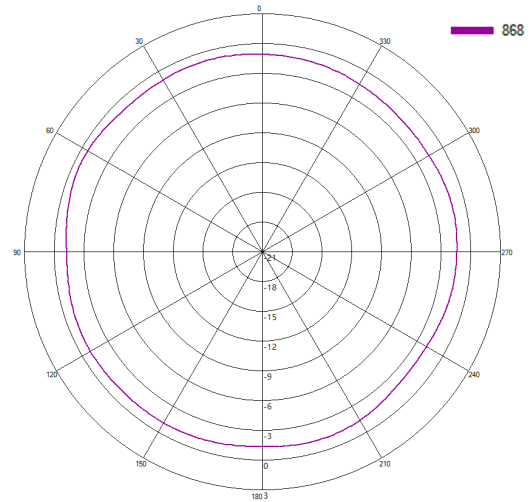
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3D Pattern Data on
Ground Plane Whip

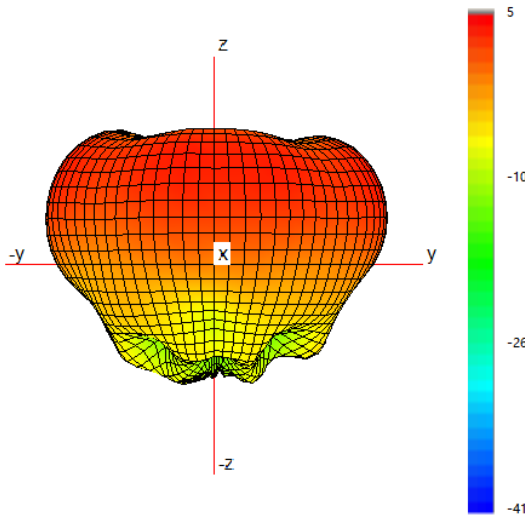
Typical 3D Pattern- Whip - 868 MHz



Typical H Plane- Whip - Pattern- 868MHz



Typical 3D Pattern- Whip - 915 MHz



Typical H Plane- Whip - Pattern- 915MHz

