# LoRa/Sigfox/ISM Band 863-928MHz Magnetic Mount PANORAMA ANTENNAS

MAR868-[X]



#### MAR868-[X]

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

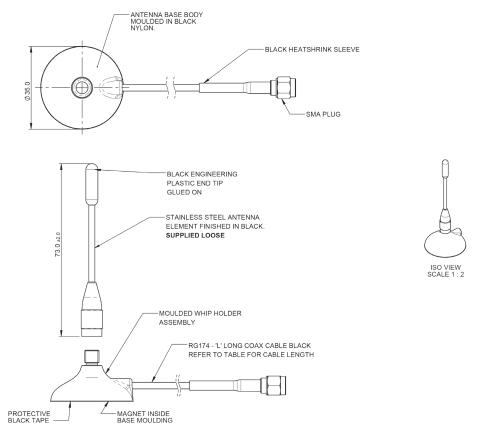
The MAR868-[X] is a high performance, rugged, compact magnetic mount antenna suitable for installations where a temporary solution is required or drilling a hole for a panel mount antenna is not possible.

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 Rang	ge (MHz)	863-928					
Operational Ban	d	868 / 915					
Peak Gain: Isotr	opic*	4dBi					
Typical Efficiency	y*	>80%					
Typical VSWR*		<2:1					
Polarisation		Vertical					
Pattern		Omni-directional					
Impedance		50Ω					
Max Input Power (W)		20					
Mechanical Data							
	Total Height	88 (3.5")					
Dimensions (mm)	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							
Туре		RG174					
Diameter (mm)		2.8 (0.1")					
Length (m)		2.3 (7'6")					
Termination		SMA plug (m)					

<sup>\*</sup>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

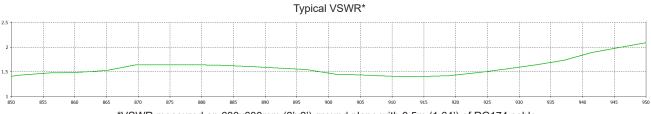
Measurement Conditions	ı					
MAR868-[X] measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 Cable						
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LoRa/Sigfox/ISM Antenna								
Frequency Range (MHz)	Whip Bands	Antenna Element	Peak Gain (dBi)	Efficiency (%)				
868	868	Whip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

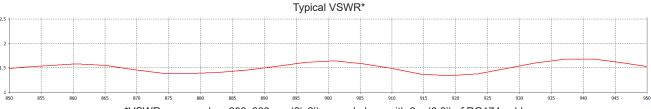
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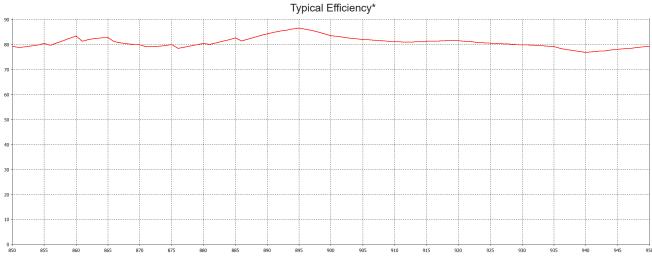
Electrical Data on Ground Plane - Whip



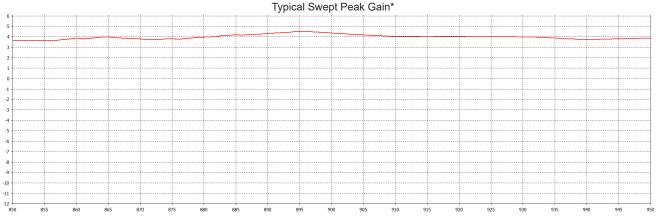
\*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable



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



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

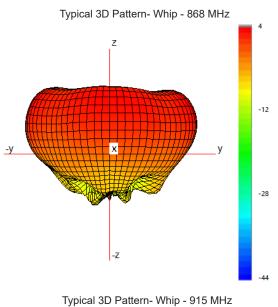


\*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.64') of RG174 cable

### LoRa/Sigfox/ISM Band 863-928MHz Magnetic Mount PANORAMA ANTENNAS

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3D Pattern Data on Ground Plane Whip



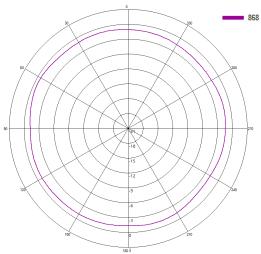
Typical 3D Pattern- Whip - 915 MHz

z

-10

-26





Typical H Plane- Whip - Pattern- 915MHz

