

UHF Magnetic Mount Antenna

MD-IN2829

PANORAMA ANTENNAS



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- Temporary magnetic fit
- 2x UHF Whip
- 2m (6.6') Low loss cable

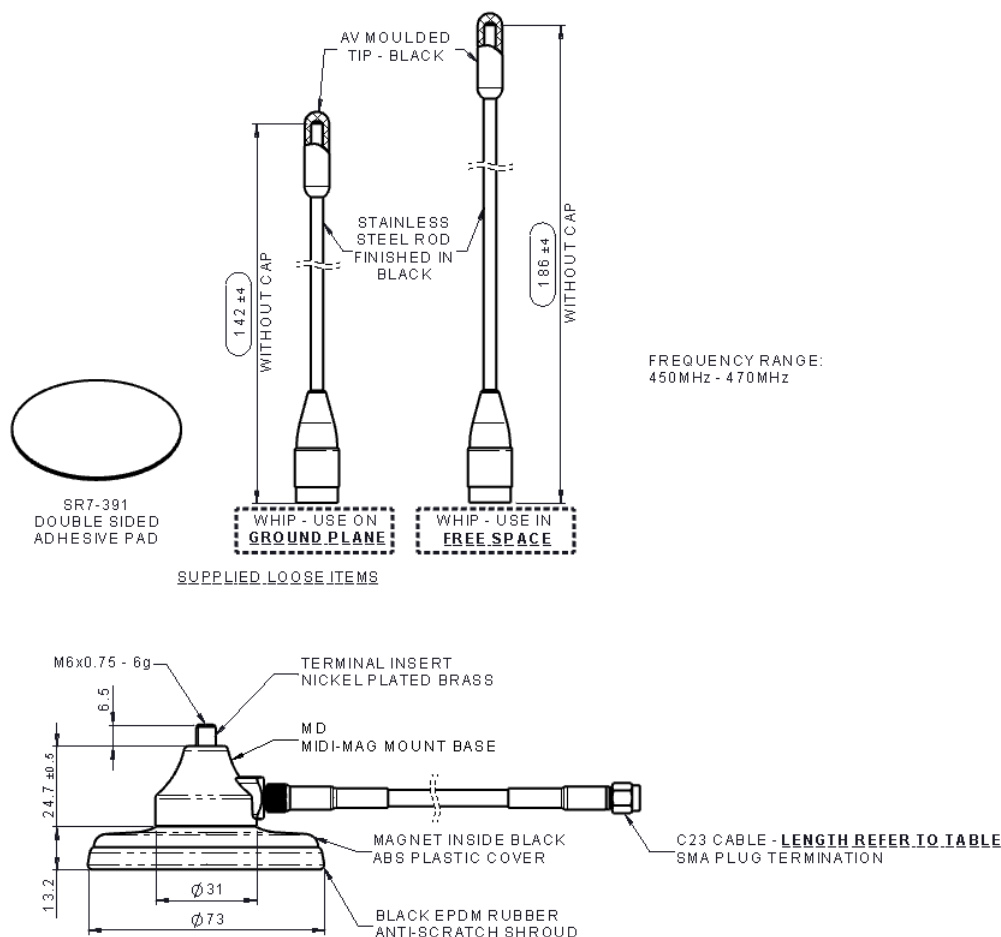
The MD-IN2829 range is a 450-470MHz antenna kit which has a magnetic mount base with a detachable CS23 (RG58) coaxial cable, and is configured for use either on a conductive ground plane or a plastic panel. The base has a M6 thread stud whip fitting and two whips are supplied to suit the different types of installation environment.

- The longer whip is for use when mounting on to a plastic or non-metallic panel.
- The shorter whip must be used when the antenna base is mounted on a conductive (metal) ground plane, note that this can include ferrous or nonferrous material.

The kit includes an adhesive pad for use when the antenna is mounted on a non-ferrous panel. When mounted on a vehicle the mount has been satisfactorily tested with a 50cm long antenna whip at speeds in excess of 100mph (160kmh) when using magnetic adhesion on a ferrous material panel.

Technical drawing

MD-IN2829-VARSP Shown



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Product Data

Part No.

MD-IN2829-2SP

Electrical Data

Frequency Range	450-470MHz
Operational Band	S4
Peak Gain @453MHz**	3dBi
Typical VSWR*	1.5:1
Polarization	Vertical
Pattern	Omni-directional
Impedance	50Ω
Max Input Power (W)	50

Mechanical Data

Whip A- ground plane

Whip B - free space

Dimensions	Whip length	142mm (5.6")	186mm (7.3")
	Base height	44.4mm (1.75")	
	Base diameter	73 (2.9")	

Operating Temp -40°/+80°C (-22°/176°F)

Whip Material Polyamide, Stainless Steel, ASA

Colour Black

Mounting Data

Mounting type Magnetic mount or adhesive mount

Recommended max speed (KMPH**) 220 (135 Mph)

Cable Data

Type	CS23
Diameter	5mm (0.2")
Length	2m (6.6')
Termination	SMA(m)

* VSWR as measured at 453MHz on a 600x600mm (2'x2') ground plane with 2m (6.6') of CS23 coaxial cable

**Peak gain as measured on a 600x600mm (2'x2') ground plane without additional cable

Recommended max speed is based on safe installation practice with a Panorama whip not exceeding the stated maximum length. A headwind of up to 30Kmph (19Mph) is allowed for in the stated value. Adverse weather conditions / heavy icing or poor installation may decrease magnetic retention. Spacing materials (other than the fitted rubber boot) should never be placed between the magnet and the mounting surface as this will significantly impact retention and may make this installation unsafe. Panorama advocates safe driving practices and adherence to the maximum speed limits in force locally for the user. Users are recommended to follow best practice and conduct sensible risk assessments before driving at very high speeds.

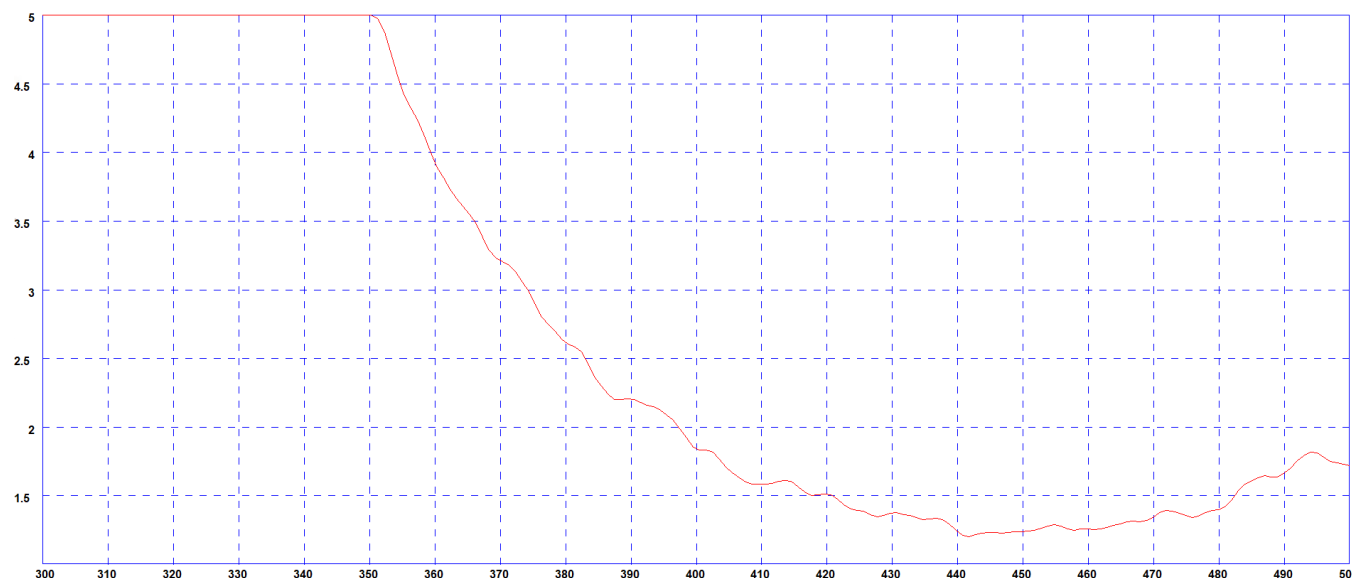
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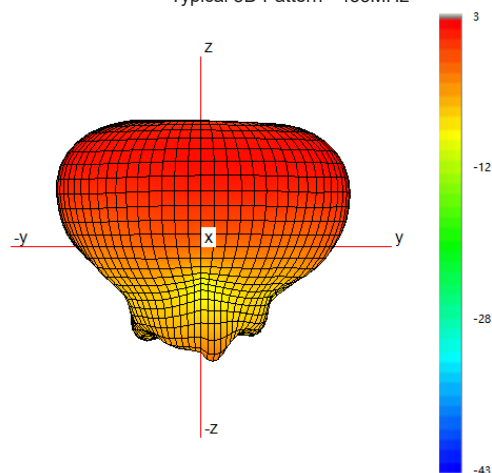
Electrical Data on Ground Plane

Typical VSWR*

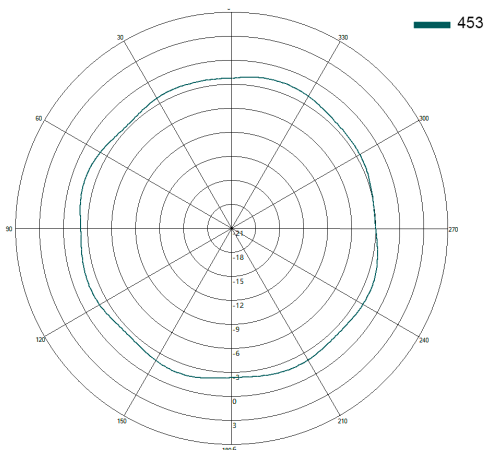


*VSWR measured on 600x600 (2x2') ground plane with 2m (6.6') of CS23 cable

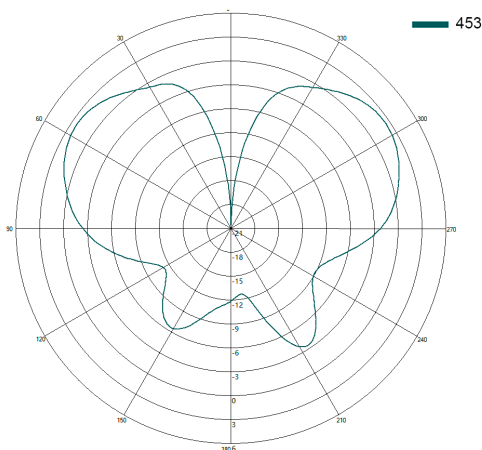
Typical 3D Pattern - 453MHz



Typical H Plane Pattern - 453MHz



Typical E Plane Pattern - 453MHz



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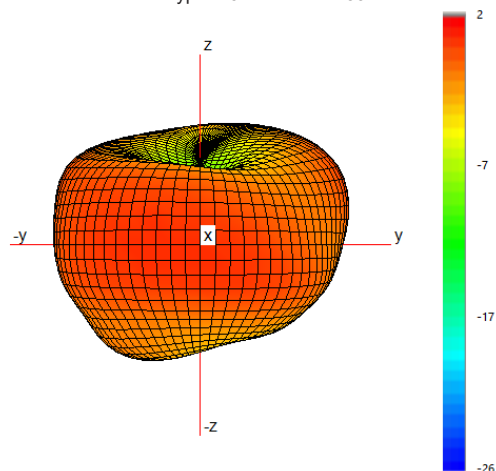
Electrical Data in
Free Space

Typical VSWR*

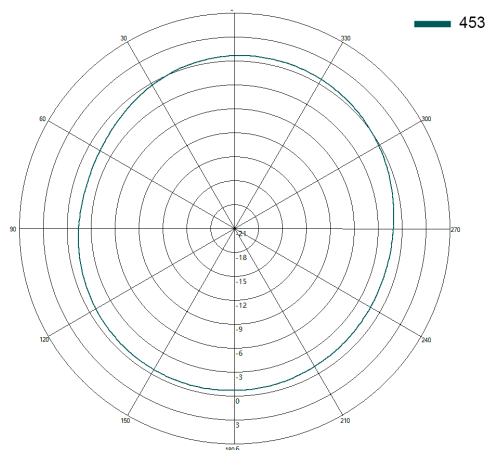


*VSWR measured in free space with 2m (6.6') of CS23 cable

Typical 3D Pattern - 453MHz



Typical H Plane Pattern - 453MHz



Typical E Plane Pattern - 453MHz

