

MA-WO-UWB

138-6000 MHz Ultra Wide Band OMNI Directional Antenna

MARS MA-WO-UMB is an Ultra Wide Band OMNI Directional Antenna covering bands from 138 MHz up to 6 GHz in a single antenna radome.

Perfect matching in all bands with small ground plane.

Pattern: Omni Directional with elevation up tilted. see patterns

The antenna is PIM certified, thus making it suitable for all multi-carrier systems.

Supported applications:

TETRA, TV White-Space, LORA, LTE, GSM, UMTS, WiFi, WLAN, lo/T and more.



Specifications

Electrical

Frequency Range	Gain, typ.	Optimum Ground Plane Size	VSWR
138-174 MHz	3dBi	400x400 mm, 15.7"x15.7"	1.5:1 typ. (3:1 max)
380-450 MHz	4dBi	370x370 mm, 14.56"x14.56"	1.5:1 typ. (2.5:1 max)
406-512 MHz	5dBi	165x165 mm, 6.5"x6.5"	1.5:1 typ. (2.8:1 max)
512-698 MHz	5 dBi	165x165 mm, 6.5"x6.5"	2.5:1 typ. (3.5:1 max)
698-746 MHz	6dBi	165x165 mm, 6.5"x6.5"	1.5:1 typ. (2.5:1 max)
746-806 MHz	7dBi	165x165 mm, 6.5"x6.5"	1.5:1 typ. (2.5:1 max)
806-960 MHz	7dBi	165x165 mm, 6.5"x6.5"	1.7:1 typ. (2.5:1 max)
1200-2700 MHz	8dBi	Not Required	1.3:1 typ. (2.0:1 max)
3300-3800 MHz	10dBi	Not Required	1.3:1 typ. (1.7:1 max)
4100-6000 MHz	11dBi	Not Required	1.5:1 typ. (2.0:1 max)
Polarization	Linear , Vertical		
Pattern	Omni Directional		
PIM, 3rd order, 2X20W	<-155 dBc		
Input Power, max	50 Watts		
Input Impedance	50 Ohm		

Mechanical

Dimensions (DxH)	40mm diameter (base diameter 72mm) x 540mm height 1.57" diameter (base diameter 2.8") x 21" height
Weight	350 gr.
Connector	N-Type, Female
Mounting	2" Pole Mount
Radom	UV Protected Plastic
Ground Plane	See Ordering Options

Environmental

Operating Temp. Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-65
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WO-UWB	Antenna for 1200-6000 MHz with Mount, and without Ground Plane
MA-WO-UWB400	Antenna for 138-174 MHz with Mount and with Ground Plane 400x400 mm and accessories
MA-WO-UWB370	Antenna for 380-450 MHz with Mount and with Ground Plane 370x370 mm and accessories
MA-WO-UWB165	Antenna for 450-960 MHz with Mount and with Ground Plane 165x165 mm and accessories

- Patterns available on Mars website

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