



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, Io/T and more.

Specifications				
Electrical Control of the Control of				
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, Fem	N-Type, Female		
Mounting	2" Pole Mour	2" Pole Mount		
Radom	UV Protected	UV Protected Plastic		

Dimensions (DxH)	1.57" diameter (base diameter 7.2mm) x 540mm neight		
Weight	350 gr.		
Connector	N-Type, Female		
Mounting	2" Pole Mount		
Radom	UV Protected Plastic		
Ground Plane	See Ordering Options		
Environmental			

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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		

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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

MARS Antennas & RF Systems proprietary information

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