

**2.3-2.7 GHz MIMO Base Station Antenna, 90°  
MA-WD24-MIMOFT13**



**Specifications:**

<b>Electrical</b>	
Frequency range	2.3 – 2.7 GHz
GAIN, typ.	3 x 13 dBi
VSWR, max.	1.7 : 1
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	90°
3 dB Beam-Width, E-Plane, typ.	15°
Side Lobes, min.	-12 dB
Cross Polarization, min.	-20 dB
Front to Back Ratio, min.	-24 dB
Input power, max	50 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
<b>Mechanical</b>	
Dimensions (HxWxD)	380 x 225 x 80 mm
Weight	2 Kg.
Connector	3 x N-Type, Female
Back Plane	Aluminum protected through chemical passivation
Radome	UV Protected, Plastic
Mount	MNT-22 (Not Included)
<b>Environmental</b>	
Operating Temperature Range	- 40°C to + 65°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
Ice and Snow	25mm radial (survival)

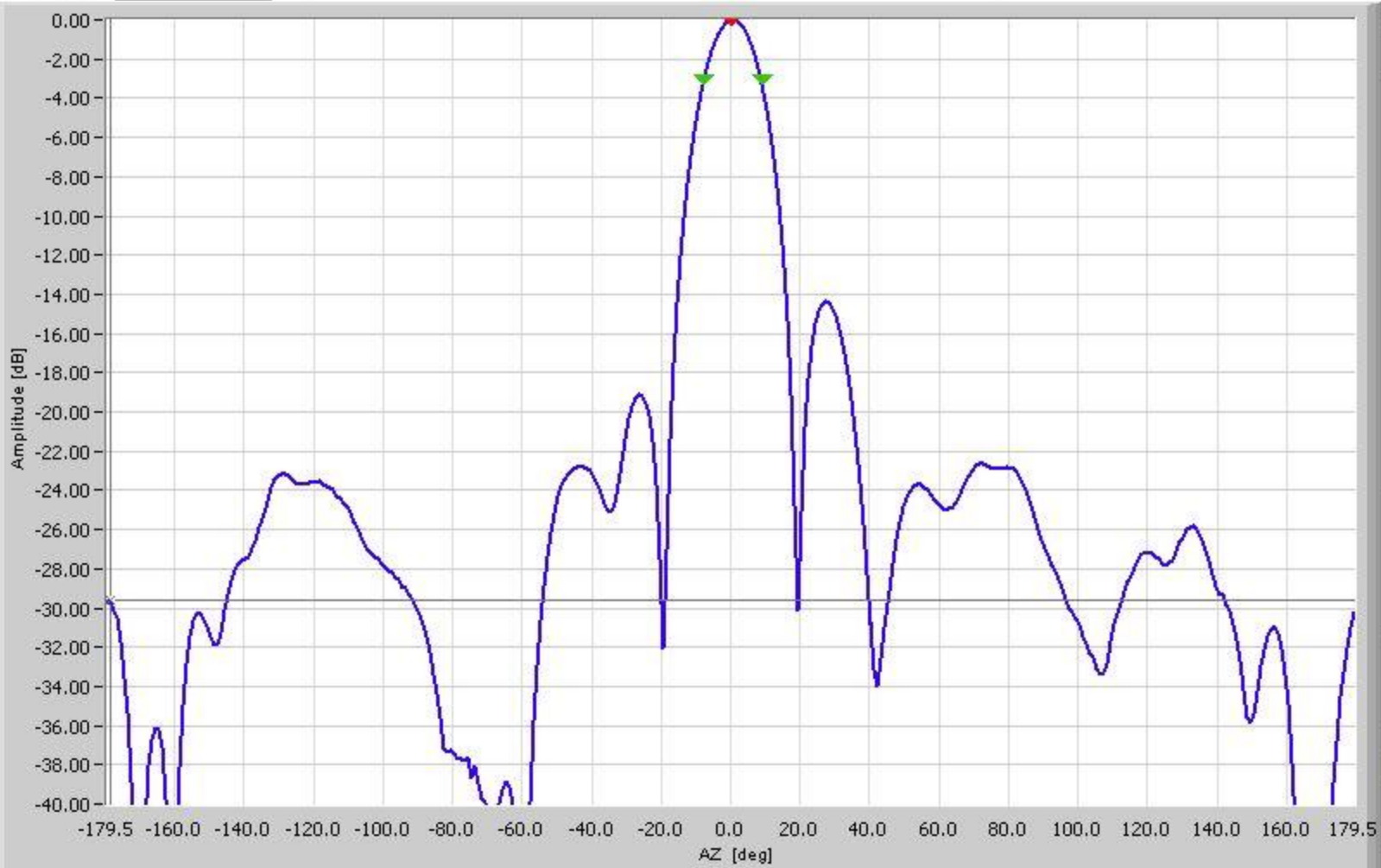
**Specifications subject to change without notice**



Operator:

# MA-WD24-MIMOFT13 E-plane

MARS ANTENNAS & RF SYSTEMS  
MARS ANTENNAS RANGE.



Side lobes Database Az. Ratio

No.	Ampl	Deg

AZ [deg]

Amplitude [dB]

Phase [deg]

- Amplitude [dB]
- Phase [deg]
- Not Aligned
- Normalized
- Phase wrapped
- Log Display
- No Skirt

MA-WD24-MIMOFT13 sr  -178.50 -29.64

A	P	File Name	ROLL [deg]	Freq. [GHz]	POL [deg]	Ch.	Beam	Switch	Beam Peak [dB]			Beam Width [deg]		Null Depth [dB]		GainA dBi
									Value	[deg]	P	Value	At dB	P	Value	
		MA-WD24-MIMOFT13 sr-xxx-file#2-CAL	90.00	2.500 G	90.00	CH1			13.94	0.50	P	16.34	3.00	P	13.94	