

4.9-5.875 GHz Dual Polarized Antenna & Enclosure (26X26 cm)

MA-WA56-DP25SBRF

MARS 5 GHz Dual Polarized Antenna MARS 5GHz Antenna & Enclosure Solution comprises of:

- Waterproof 5 GHz Dual Polarized Antenna
- Weatherproof Enclosure (26X26 cm) with provisions for Az/EI Mounting device
- Azimuth/Elevation Adjustable Mount MNT-22

This solution enables WISP/Integrator to design his own low cost, weatherized subscriber unit, saving high costs of special antenna-radio integration.



Specifications:

<i>Electrical</i>		
Frequency range		4.9 - 5.875 GHz
GAIN	V-Pol:	24.5 ± 1 dBi
	H-Pol:	23.5± 1 dBi
VSWR, max.		1.7 : 1
Polarization		Linear, Vertical & Horizontal
3 dB Beam-Width, H-Plane, typ.		7°- 9°
3 dB Beam-Width, E-Plane, typ.		7°- 9°
Side Lobes, min.		ETSI TS3, TS4, TS5
Cross Polarization, typ.		- 25 dB
Front to Back Ratio, min.		ETSI TS3, TS4, TS5
Port to Port Isolation, typ.		-30 dB
Input power, max		5 Watt
Input Impedance		50 Ohm
Lightning Protection		DC Grounded
<i>Mechanical</i>		
Dimensions (HxWxD)		370 x 370 x 40 mm (14.5" x14.5" x1.6")
Enclosure Int. Dimensions		260x 260 x 45 mm (10.2"x10.2"x1.8")
Connector		2 x SMA, Female
Weight		2.6 kg (with Enclosure)
Back Plane		Aluminum; protected through chemical passivation
Radome		UV Protected Polycarbonate
Mounting		MNT-22
<i>Environmental</i>		
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-67
Humidity		ETS 300 019-1-4,EN 302 085 (Annex A.1.1)
Salt Fog		According to IEC 68-2-11
Service Life		>10 years

Ordering Options:

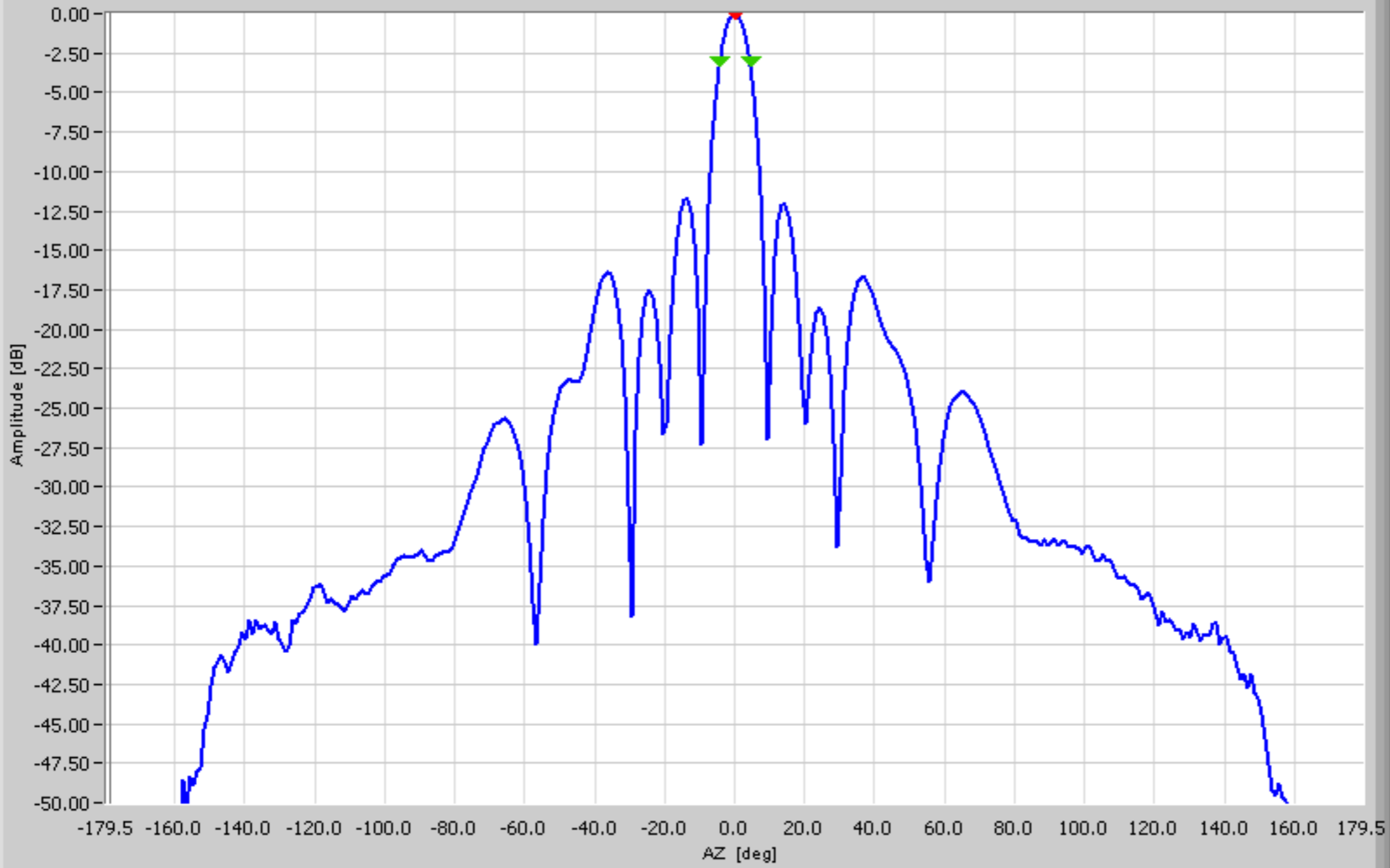
MA-WA56-DP25NBRF	Antenna with N-Type, Female Connector and Enclosure suited for MNT-22
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Specifications subject to change without notice

Operator: MARS

MA-WA56-D25N H-pol. H-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

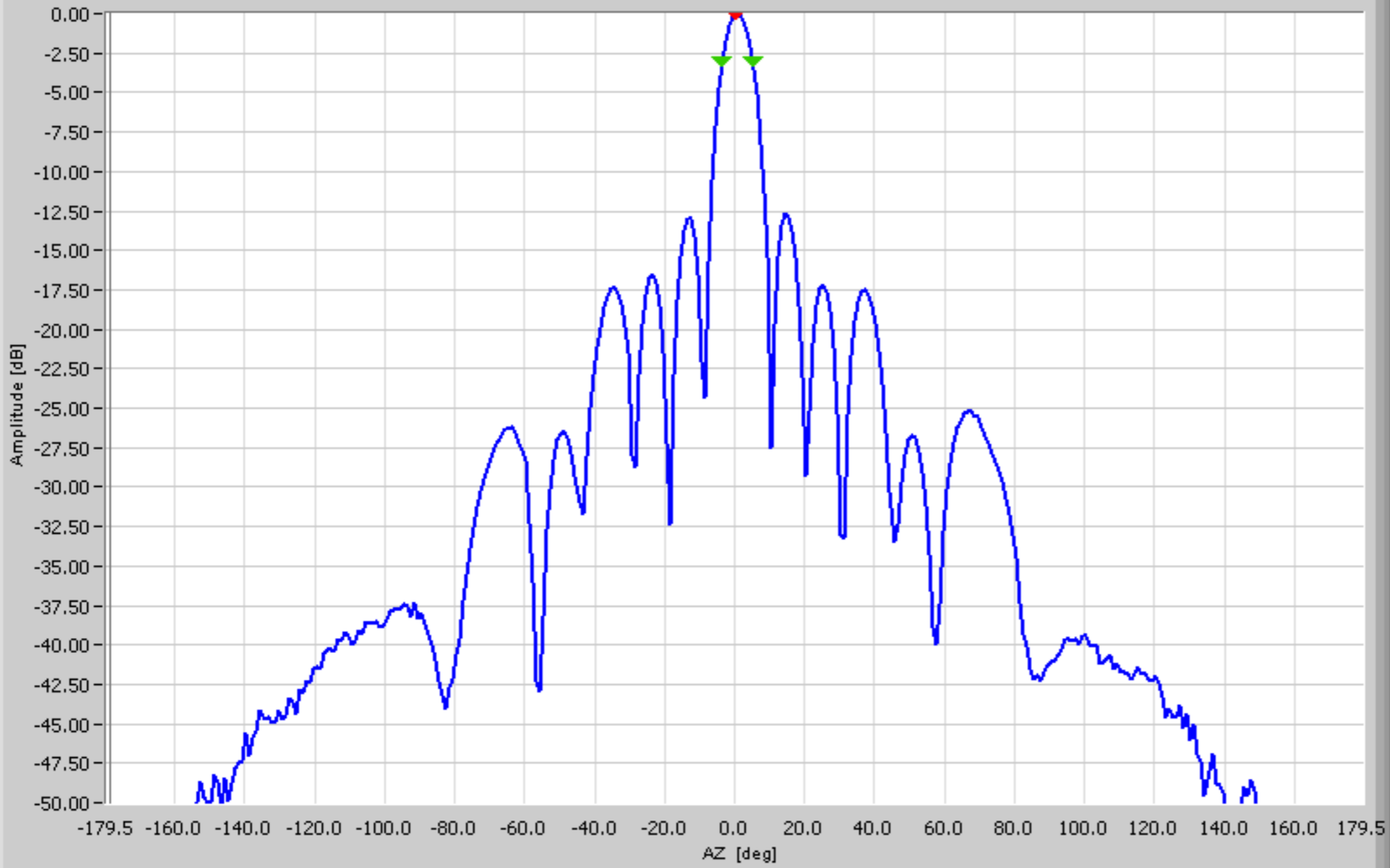
MA-WA56-DP25N H-pol.

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	[deg]	
		MA-WA56-DP25N H-pol..nff	0.00	5.400 G	0.00	CH1			23.52	0.50	P	8.49	3.00	P		23.52	

Operator: MARS

MA-WA56-D25N V-pol. H-plane

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MA-WA56-DP25N V-po -178.50 -59.04

A	P	File Name	ROLL [deg]	Freq. [GHz]	POL [deg]	Ch.	Beam		Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		GainA dBi
							Value	[deg]	Value	[deg]	Value	[deg]	Value	[deg]	
		MA-WA56-DP25N V-pol.nff	90.00	5.400 G	0.00	CH1			24.62	0.50	P	8.57	3.00	P	24.62