

4.9 - 6.1 GHz High Gain Subscriber Antenna

-MA-WA55-30

MARS Broadband High Gain Antenna covers the full 5GHz spectrum- from lower to higher UNII band - including its unlicensed part.

Additional Features:

- exceptionally high gain of 30 dB over the entire frequency band
- UV protected radome allowing for harsh weather installations
- highest range of ETSI standards - TS3, TS4, TS5
- easy mounting allowing for Az/EI adjustment



Specifications:

Electrical

| | |
|--------------------------------|------------------------------------------------------------|
| Frequency range | 4.9 - 6.1 GHz |
| Gain, typ. | 30 dBi 4.9-5.15 & 5.875-6.1 @ 29 dBi , 5.15-5.875 @ 30 dBi |
| VSWR, max. | 1.7:1 @ 4.9-5.875, 1.9:1 @ 5.875-6.1 |
| 3 dB Beam-Width, H-Plane, typ. | 5 ° |
| 3 dB Beam-Width, E-Plane, typ. | 5 ° |
| Side Lobes, min. | ETSI TS3, TS4, TS5 |
| Polarization | Linear, Vertical or Horizontal |
| Cross Polarization, min. | ETSI TS3, TS4, TS5 |
| Front to Back Ratio, min. | ETSI TS3, TS4, TS5 |
| Input power, max | 50 Watt |
| Input Impedance | 50 Ohm |
| Lightning Protection | DC Grounded |

Mechanical

| | |
|--------------------|--------------------------------------------------|
| Dimensions (HxWxD) | 600 x 600 x 30 mm (23.5"x 23.5"x1.2") |
| Weight | 5 kg |
| Connector | N-Type, Female |
| Back Plane | Aluminum; protected through chemical passivation |
| Radome | UV Protected, Plastic |
| Mount | MNT-60 |

Environmental

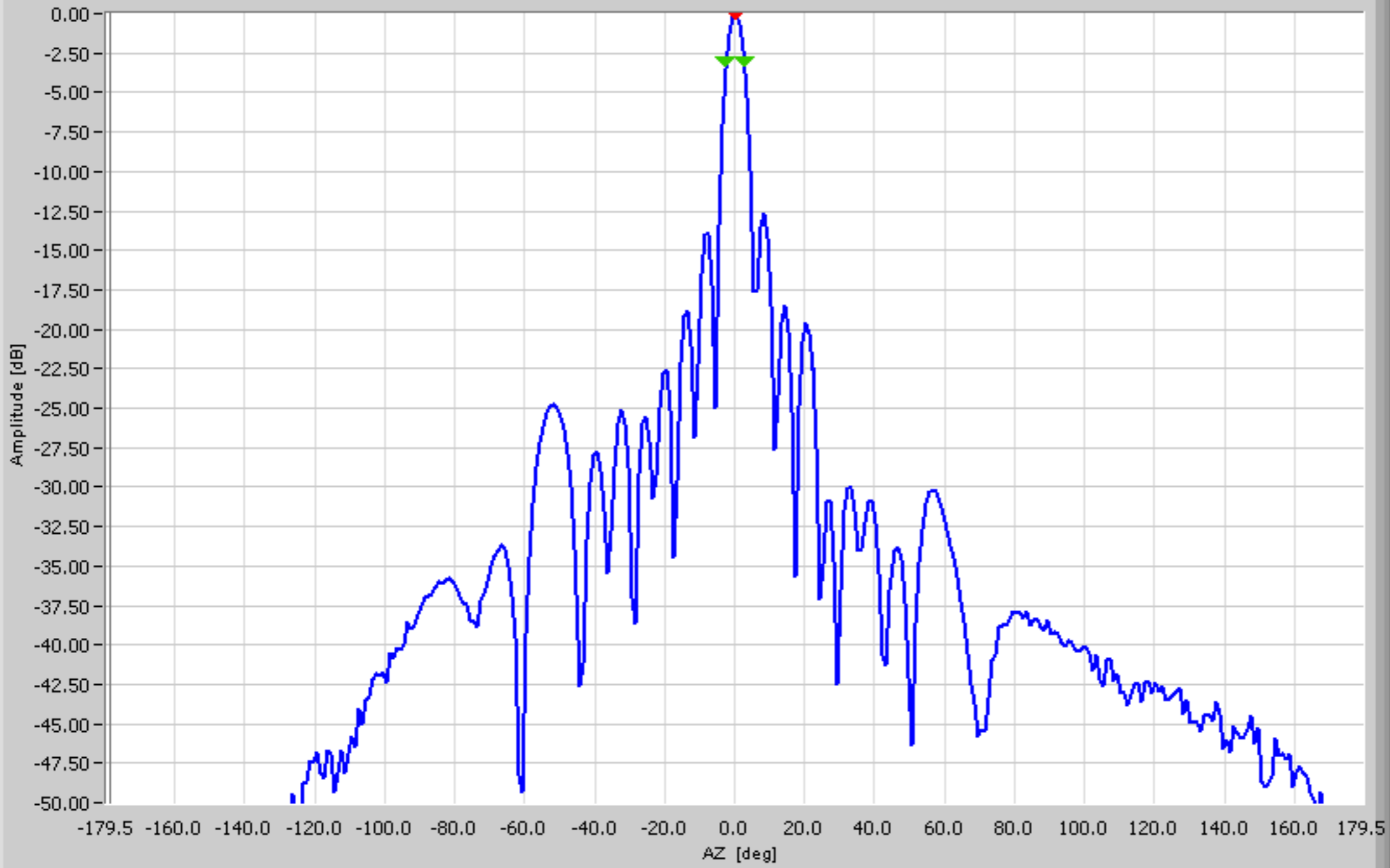
| | |
|-----------------------------|--------------------------------------------|
| Operating Temperature Range | -40° C to +65° C |
| Vibration | According to IEC 60721-3-4 |
| Wind Load | 200 km/h (survival) |
| Flammability | UL94 |
| Water Proofing | IP-65 |
| Humidity | ETS 300 019-1-4, EN 302 085 (annex. A.1.1) |
| Salt Fog | According to IEC 68-2-11 |
| Service Life | > 10 years |

Specifications subject to change without notice

Operator: MARS

MA-WA55-30 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-WA55-30_1.nff -178.50 -52.92

| 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-WA55-30_1.nff | 90.00 | 5.400 G | 90.00 | CH1 | | | 29.16 | 0.50 | P | 5.00 | 3.00 | P | | 29.30 | |

