



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/El 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:

Frequency range $4.9 - 5.875 \text{GHz}$ GAINV-Pol: $23.5 \pm 1 \text{dBi}$ H-Pol: $24.5 \pm 1 \text{dBi}$ $24.5 \pm 1 \text{dBi}$ $24.5 \pm 1 \text{dBi}$ YSWR, max.I.7: 1PolarizationLinear, Vertical & Horizontal3 dB Beam-Width, H-Plane, typ. 7° - 9°3 dB Beam-Width, E-Plane, typ. 7° - 9°Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ 25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ 30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedDimensions (HxWxD)260x 260 x 45 mm (10.2"x14.5" x1.6")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationWointingSee Ordering OptionsPorating Temperature Range- 40°C to + 65°CVibration200 Km/n (Survival)Wind Load200 Km/n (Survival)Water ProofingIP-67			
GAINV-Pol: H-Pol: $23.5 \pm 1 dBi$ $24.5 \pm 1 dBi$ VSWR, max.1.7 : 1PolarizationLinear, Vertical & Horizontal3 dB Beam-Width, H-Plane, typ.7°- 9°3 dB Beam-Width, E-Plane, typ.7°- 9°3 dB Beam-Width, E-Plane, typ.7°- 9°3 dB Beam-Width, E-Plane, typ.7°- 9°3 dB Cobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ 25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ 30 dBInput power, max5 WattInput power, max5 WattLightnig ProtectionDC GroundedDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingsee Ordering OptionsFinamabilityUL94Water ProofingIP-67	Electrical		
H-Pol:24.5± 1 dBiVSWR, max.1.7 : 1PolarizationLinear, Vertical & Horizontal3 dB Beam-Width, H-Plane, typ.7°- 9°3 dB Beam-Width, E-Plane, typ.7°- 9°Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ30 dBInput power, max5 WattInput power, max5 WattLightning ProtectionDC GroundedDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range-40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)Water ProofingIP-67			
VSWR, max. $1.7:1$ PolarizationLinear, Vertical & Horizontal3 dB Beam-Width, H-Plane, typ. 7° . 9°3 dB Beam-Width, E-Plane, typ. 7° . 9°3 dB Com-Width, E-Plane, typ. 7° . 9°Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ. -25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ. -30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedDimensions (HxWxD) $370 x 370 x 40 mm (14.5" x14.5" x1.6")$ 2 Connector $2 x SMA$, FemaleWeight $2.6 kg (with Enclosure)$ Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range -40° C to $+65^{\circ}$ CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)Water ProofingIP-67			
PolarizationLinear, Vertical & Horizontal3 dB Beam-Width, H-Plane, typ.7°- 9°3 dB Beam-Width, E-Plane, typ.7°- 9°Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ 25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ 30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")2 dox 260 x 45 mm (10.2"x10.2"x1.8")260 x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	H-Pol:		
3 dB Beam-Width, H-Plane, typ. 7° - 9°3 dB Beam-Width, E-Plane, typ. 7° - 9°Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC Grounded Mechanical Dimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationWouttingSee Ordering OptionsOperating Temperature Range-40°C to +65°CVibration200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	VSWR, max.	1.7:1	
3 dB Beam-Width, E-Plane, typ. $7^{\circ} - 9^{\circ}$ Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ. $-25 dB$ Front to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ. $-30 dB$ Input power, max5 WattInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC Grounded Mechanical Dimensions (HxWxD) $370 \times 370 \times 40 \text{ mm (14.5" x14.5" x1.6")}$ Enclosure Int. Dimensions $260x 260 \times 45 \text{ mm (10.2"x10.2"x1.8")}$ Connector $2 \times SMA$, FemaleWeight $2.6 \text{ kg (with Enclosure)}$ Back PlaneAluminum; protected through chemical passivationMountingSee Ordering Options Environmental Operating Temperature Range -40° C to $+65^{\circ}$ CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Polarization	Linear, Vertical & Horizontal	
Side Lobes, min.ETSI TS3, TS4, TS5Cross Polarization, typ 25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ 30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x10.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected Horough chemical passivationMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	3 dB Beam-Width, H-Plane, typ.	7°- 9°	
Cross Polarization, typ 25 dBFront to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationWountingSee Ordering OptionsEnvironmentalOperating Temperature Range-40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	3 dB Beam-Width, E-Plane, typ.	7°- 9°	
Front to Back Ratio, min.ETSI TS3, TS4, TS5Port to Port Isolation, typ30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationMountingSee Ordering OptionsEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Side Lobes, min.	ETSI TS3, TS4, TS5	
Port to Port Isolation, typ30 dBInput power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range-40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Cross Polarization, typ.	- 25 dB	
Input power, max5 WattInput Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Front to Back Ratio, min.	ETSI TS3, TS4, TS5	
Input Impedance50 OhmLightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Port to Port Isolation, typ.	-30 dB	
Lightning ProtectionDC GroundedMechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Input power, max	5 Watt	
MechanicalDimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationWV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature RangeVibration- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Input Impedance	50 Ohm	
Dimensions (HxWxD)370 x 370 x 40 mm (14.5" x14.5" x1.6")Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationWountingSee Ordering OptionsEnvironmentalOperating Temperature Range-40°C to +65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Lightning Protection	DC Grounded	
Enclosure Int. Dimensions260x 260 x 45 mm (10.2"x10.2"x1.8")Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Mechanical		
Connector2 x SMA, FemaleWeight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Dimensions (HxWxD)	370 x 370 x 40 mm (14.5" x14.5" x1.6")	
Weight2.6 kg (with Enclosure)Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Enclosure Int. Dimensions	260x 260 x 45 mm (10.2"x10.2"x1.8")	
Back PlaneAluminum; protected through chemical passivationRadomeUV Protected PolycarbonateMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Connector	2 x SMA, Female	
RadomeUV Protected Polycarbonate See Ordering OptionsMountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Weight	2.6 kg (with Enclosure)	
MountingSee Ordering OptionsEnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Back Plane	Aluminum; protected through chemical passivation	
EnvironmentalOperating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Radome	UV Protected Polycarbonate	
Operating Temperature Range- 40°C to + 65°CVibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Mounting	See Ordering Options	
VibrationAccording to IEC 60721-3-4Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Environmental		
Wind Load200 Km/h (Survival)FlammabilityUL94Water ProofingIP-67	Operating Temperature Range	- 40°C to + 65°C	
FlammabilityUL94Water ProofingIP-67	Vibration	According to IEC 60721-3-4	
Water Proofing IP-67	Wind Load	200 Km/h (Survival)	
	Flammability	UL94	
Humidity ETS 200 010 1 4 EN 202 095 (Annov A 1 1)	Water Proofing	IP-67	
E 15 300 019-1-4, EN 302 003 (Annex A.I.I)	Humidity	ETS 300 019-1-4,EN 302 085 (Annex A.1.1)	
Salt Fog According to IEC 68-2-11	Salt Fog	According to IEC 68-2-11	
Service Life >10 years	Service Life	>10 years	

* FOR PATTERNS PLEASE VISIT OUR WEBSITE

Ordering Options:

MA-WA56-DP25SBRF	Antenna with SMA, Female Connector and Enclosure suited for MNT-22
MA-WA56-DP25SBRFB	Antenna with SMA, Female Connector, Enclosure and mount

* MARS reserves the right to make technical changes or modifications to any of its products and specifications without prior notice and without implementing such changes to prior supplied products. Product images are representative and indicative only. Warranty terms and general conditions of sale are applicable on any purchase of any product and are available on MARS website.