

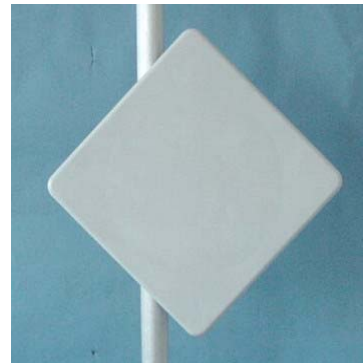
4.9 - 5.4 GHz Subscriber Antenna

MA-WA49-1X

Mars 4.9 - 5.4 GHz Antenna provides a cost effective solution for large scale WLL, UNII and for public safety applications.

Additional Features:

- Minimum Gain of 21 dBi over the entire frequency range.
- Light weight and durable construction.
- DC grounded for lightning protection to meet local electrical building codes.



Specifications:

Electrical	
Frequency range	4.9 - 5.4 GHz
GAIN, min.	21 dBi
VSWR, max.	1.9:1
Polarization	Linear, Vertical
3 dB Beam Width - Az./El., typ.	10.5°
Cross Polarization, min	24 dB
Power Handling	10 Watts
Input Impedance	50 Ohms
Front to Back Ratio, min.	35 dB
Mechanical and Environmental	
Dimensions (LxWxD)	305x305x15 mm (DIAMOND Shape)
Base Plate	Aluminum, Coated
Radome	Plastic, UV protected
Temperature	-40°C up to +75°C
Input/ RF Interface	N-Type (others available)
Mounting Hardware	Pole Mount & Brackets –Standard Optional- MNT-2 Az/ El adjustable mount

Specifications subject to change without notice

Public Safety Band Sector Antenna, 60°

MA-WC49-5X

Mars 4.95 GHz Sector Antenna provides an effective solution for Sectorized Public Safety Band Applications.

Features:

- High gain
- Small Size
- Pole mount with mechanical tilting



Specifications:

Electrical	
Frequency range	4.94 - 4.99 GHz
Gain, typ.	17 dBi
VSWR, max.	1.7 : 1
3dB Beam-Width – Azimuth, typ.	60°
3dB Beam-Width – Elevation, typ.	6°
Polarization	Linear Vertical
Cross-polarization Level, max.	-20 dB
Front to back ratio	-25 dB
Power Handling	50 Watts
Input Impedance	50 Ohms
Mechanical and Environmental	
Dimensions (LxWxD)	500x80x80 mm
Radome	Plastic, UV protected
Connector	N-Type, F
Mount (Optional)	Tilt Mount (0-12°) for Pole 2-4"
Lightning Protection	DC Grounded
Temperature	-40°C to +70°C

Specifications subject to change without notice

Public Safety Band Sector Antenna, 90°

MA-WD49-6X

Mars 4.95 GHz Sector Antenna provides an effective solution for Sectorized Public Safety Band Applications.

Features:

- High gain
- Small Size
- Pole mount with mechanical tilting



Specifications:

Electrical	
Frequency range	4.94 - 4.99 GHz
Gain, typ.	16 dBi
VSWR, max.	1.7 : 1
3dB Beam-Width – Azimuth, typ.	90°
3dB Beam-Width – Elevation, typ.	6°
Polarization	Linear Vertical
Cross-polarization Level, max.	-20 dB
Front to back ratio	-25 dB
Power Handling	50 Watts
Input Impedance	50 Ohms
Mechanical and Environmental	
Dimensions (LxWxD)	500x80x80 mm
Radome	Plastic, UV protected
Connector	N-Type, F
Mount (Optional)	Tilt Mount (0-12°) for Pole 2-4"
Lightning Protection	DC Grounded
Temperature	-40°C to +70°C

Specifications subject to change without notice

Public Safety Band Sector Antenna, 120°

MA-WE49-7X

Mars 4.95 GHz Sector Antenna provides an effective solution for Sectorized Public Safety Band Applications.

Features:

- High gain
- Small Size
- Pole mount with mechanical tilting



Specifications:

Electrical	
Frequency range	4.94 - 4.99 GHz
Gain, typ.	15 dBi
VSWR, max.	1.7 : 1
3dB Beam-Width – Azimuth, typ.	120°
3dB Beam-Width – Elevation, typ.	6°
Polarization	Linear Vertical
Cross-polarization Level, max.	-20 dB
Front to back ratio	-25 dB
Power Handling	50 Watts
Input Impedance	50 Ohms
Mechanical and Environmental	
Dimensions (LxWxD)	500x80x80 mm
Radome	Plastic, UV protected
Connector	N-Type, F
Mount (Optional)	Tilt Mount (0-12°) for Pole 2-4"
Lightning Protection	DC Grounded
Temperature	-40°C to +70°C

Specifications subject to change without notice

Blade Antenna for mobile Public Safety Applications

MA-WO49-BX

This antenna is a rugged, aerodynamic antenna for the 4.94 to 4.99 GHz (Public Safety Band) to be used in mobile applications such as trains, helicopters, buses or cars. The antenna comes in two versions:

- *Fixed Mount (Roof top)*
- *Magnetic Mount (Side Pigtail)*

Specifications:

Electrical	
Frequency Band	4.94 – 4.99 GHz
Gain, typical	5 dBi
Polarization	Vertical
3 dB Beam Width (H-Plane), typ.	Omni-Directional
3 dB Beam Width (E-Plane), typ.	60°
VSWR, (max.)	1.5 : 1
Power Handling (max)	50 W
Impedance	50 Ohms
Mechanical and Environmental	
Dimensions- Height Base Diameter	<10” <5”
Mount	Magnetic Mount – (Specify X=M) Fixed Roof-top Mount -(Specify X=F)
Connector	For Magnet Mount :Coaxial Pigtail (RG316) of 10” ended in a MCX female connector For Fixed Mount : N-type female
Radome	Plastic, UV protected
Weight	<1 Kg
Vibration	Sinusoidal , 5 to 500 Hz up to 5 G ² /Hz
Temperature (operating/storage)	-40°C to +70°C

SPECIFICATIONS SUBJECT TO CHANGE

Omni-Directional Public Safety Band Antenna

MA-WO49-7X

Mars 4.95 GHz Omni Directional Antenna provides an effective solution for fixed, (pole mount) Public Safety Applications.



Specifications:

Electrical	
Frequency range	4.94 - 4.99 GHz
Gain	7.5 dBi
VSWR, max.	1.7 : 1
Azimuth Beam-Width	Omni- Directional
Elevation Beam-Width (typ.)	12°
Polarization	Linear Vertical
Power Handling	50 Watt
Mechanical and Environmental	
Dimensions (H x Dia.)	420 x 32mm (16.5" x 1.3")
Weight	225 g
Connector	N-Type, Female
Mount	2.5" Pole mount (end) attachment

Specifications subject to change without notice