MARS
ANTENNAS & RF SYSTEMS LTD.

Mobile Antennas 2017

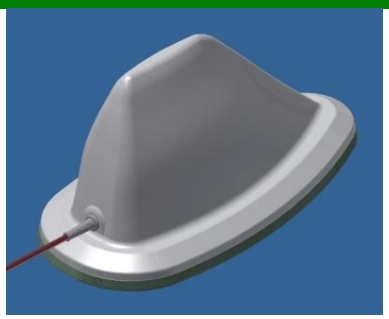
www.mars-antennas.com

MARS ANTENNAS & RF SYSTEMS LTD.

RoHS COMPLIANT 2011/65/EU

MA-VMB-5

698 MHz–6.5 GHz Multi Band Blade Antenna for Mobile Applications



MARS Blade Antenna is a ruggedized, aerodynamic antenna, for use in mobile applications such as trains, helicopters, buses or cars.
Antenna comes in two versions:

- Fixed Mount (Roof top)
- Magnetic Mount

Specifications

Electrical						
Standard	LTE	SMR, AMPS, CDMA, TDMA, GSM 900	PCS, DECT, GSM 1900, UMTS	Bluetooth, ISM, WLAN	WLL	UNII, WLL, H-LAN, Wi-Fi
Frequency range	698-806* MHz	806-960 MHz	1.71-2.17 GHz	2.3-2.7 GHz	3.3-3.8 GHz	4.5-6.5 GHz
GAIN, typ.	2dBi	2dBi	3dBi	4dBi	4dBi	6dBi
VSWR, typ.	< 2 : 1					
Polarization	Linear, Vertical					
Pattern	Omni Directional					
Input power, max	5 Watt					
Input Impedance	50 Ohm					

Mechanical	
Dimensions (LxWxH)	169 x 85 x 88 mm (6.65" x 3.34" x 3.46")
Weight	300 gr.
Connector	See Ordering Information
Back Plane	Steel Protected through Zinc Galvanization
Radome	UV Protected Polycarbonate
Mount	See Ordering Information

Environmental	
Operating Temp. Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Water Proofing	IP-67
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

Model No.	***Application / Mount***	***Connector***
MA-VMB-5M	Magnetic Mount	95 cm RG316 Pigtail Side with SMA, Male
MA-VMB-5F	Fixed Mount (Roof Top)	N-Type, Female

*Installation on non-metallic objects requires Ground Plane 350x350 mm min.

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MA-VM1765-5

1.7-6.5 GHz Wide Band Blade Antenna for Mobile Applications

MARS Wide Band Blade Antenna is a ruggedized and aerodynamic antenna that provides an optimal solution for use in mobile applications such as trains, helicopters, buses or cars.

Additional Features:

- Bottom Mount, Fixed Mount (4 screws from bottom)
- Stable and reliable performance.

Specifications

Electrical				
Frequency range	1.7-2.3 GHz	2.3-3.0 GHz	3.0-4.0 GHz	4.0-6.5 GHz
GAIN, typ.	3 dBi	4 dBi	5 dBi	6 dBi
VSWR, max.	2 : 1 max. 1.5 :1 typ.			
Polarization	Linear, Vertical			
Pattern	Omni Directional			
Input power, max	5 Watt			
Input Impedance	50 Ohm			
Mechanical				
Dimensions (LxWxH)	132 x 79 x 76 mm			
Weight	150 gr.			
Connector	N-Type Female Bottom			
Back Plane	Aluminum, protected through chemical passivation			
Radome	UV Protected Polycarbonate			
Mount	Bottom Mount, Fixed Mount (4 screws from bottom)			
Environmental				
Operating Temp. Range	-40°C to +65°C			
Vibration	According to IEC 60721-3-4			
Water Proofing	IP-67			
Flammability	UL94			
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)			

Patterns are available on our website.

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RoHS COMPLIANT 2011/65/EU

MA-VM1765-5S

1.7-6.5 GHz Wide Band Blade Antenna for Mobile Applications

MARS Wide Band Blade Antenna is a ruggedized and aerodynamic antenna that provides an optimal solution for use in mobile applications such as trains, helicopters, buses or cars.

Additional Features:

- Magnetic Mount
- Fixed Mount (4 screws from bottom)
- Stable and reliable performance.

Specifications

Electrical				
Frequency range	1.7-2.3 GHz	2.3-3.0 GHz	3.0-4.0 GHz	4.0-6.5 GHz
GAIN, typ.	3 dBi	4 dBi	5 dBi	6 dBi
VSWR, max.	2 : 1 max.		1.5 :1 typ.	
Polarization	Linear, Vertical			
Pattern	Omni Directional			
Input power, max	5 Watt			
Input Impedance	50 Ohm			
Mechanical				
Dimensions (LxWxH)	132 x 79 x 76 mm.			
Weight	150 gr.			
Connector	SMA Female side			
Back Plane	Steel with galvanic protection			
Radome	UV Protected Polycarbonate			
Mount	Ordering Options			
Environmental				
Operating Temp. Range	-40°C to +65°C			
Vibration	According to IEC 60721-3-4			
Water Proofing	IP-67			
Flammability	UL94			
Humidity	ETS 300 019-1-4, EN 302 085 (Annex A.1.1)			

Ordering Options

Model No.	***Application / Mount***
MA-VM1765-5SM	Magnetic Mount
MA-VM1765-5SF	Fixed Mount (4 screws from bottom)

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RoHS COMPLIANT 2011/65/EU

MA-DBO2455-3

2.3-2.7 GHz & 4.9-6.4 GHz Dual Band Omni Antenna

MARS Dual Band Omni antenna provides coverage of 2.3 to 2.7 GHz & 4.9 to 6.4 GHz in a single antenna radome.
Additional Features:

- Simultaneous coverage of LTE, 802.11 a, b, g, WiMAX & 4.9 GHz Public Safety bands.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Suitable for either outdoor (car top) or indoor (ceiling) installations.*

Specifications

Electrical	
Frequency range	2.3-2.7 GHz & 4.9-6.4 GHz
GAIN, typ.	2.3-2.7 GHz @ 2 dBi (on 20+ cm diameter ground plane) ** 4.9-6.4 GHz @ 4 dBi (on 20+ cm diameter ground plane) **
VSWR	2: 1 (max.); 1.5 : 1 (typ.)
Polarization	Linear Vertical
Input power, max.	20 Watt
Input Impedance	50 Ohm
Mechanical	
Dimensions (H x Dia.)	34 x 54 mm (1.3" x 2.1")
Connector	N-Type Female (Bottom)
Weight	60 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Mount	Fixed Roof Top Mounting
Environmental	
Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

(*) Supplied with 78 mm disc for ceiling installtion.
(**) Gain without ground plane is:
0 dBi @ 2.3-2.7 GHz
2 dBi @ 4.9-6.1 GHz

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