



MRM Body Mount Antenna  
(Quarter not included)

These new antennas are the latest evolution in compact design for a variety of mobile and fixed applications. The MRM Stud mount series are micro-antennas that provide the gain and performance that is close to its bigger brother products, the RM Series. A variety of single and dual band models are available for the most popular broadband data system applications.

The MRM antenna design is "thumb" sized, only 1.35" H x 1" D (34 mm x 25mm). These antennas have a 1/2" diameter stud (13 mm) for mounting on up to 3/8" thick surface (9.5mm). To mount, access to the underside of the body surface is required. A 1/2"-20 Hex mounting nut (split nut) is provided.

The antennas are normally outfitted with 1 foot (305 mm) of low loss RF-195 cable with an SMA male connector. Antennas can be factory ordered with any cable length required and a variety of RF connectors. Alternatively, jumper cables can be provided for completing a longer installation.

Peak antenna gain performance is unity on the 800/900 MHz band, with peak gain of 2.5 dBi for the 1.8/1.9 GHz bands. The antennas should be mounted on metal for best overall performance.

## Micro Body/Stud Mount (Pat.Pnd.) GSM/CDMA, 1xRTT, EV-DO

- Mounts easily to vehicle or fixed utility box with a small 9/16" mounting hole (14.3 mm)
- "Thumb" sized with impressive 2.5 dBi gain
- Rugged and weather tight ABS radome with foam sealing gasket
- Standard 1ft coax pigtail and SMA, factory built to other configurations

The MRM Series antenna radome consists of Black UV resistant plastic (white radome optional) with a nickel plated bottom plate. The bottom mounting plate is outfitted with a foam gasket for weather sealing.

### Model Number

Model	Description
MRM-900/1900	US 850 & 1900 Band US GSM/CDMA, EV-DO, 1xRTT 824-894 MHz & 1850-1990 MHz
MRM-837/1900	US Nextel & 1.9 GHz PCS 804-870 MHz & 1850-1990 MHz
MRM-925/1800	Europe GSM Band Also operates on ISM 915/Mobitex (870-960 MHz & 1710-1880 MHz)

Models also available for WiFi and WiMAX applications, consult other spec sheets. Antennas are supplied with 1 foot (305 mm) cable and SMA male connector standard. Units can also be outfitted with other cable lengths and connectors.

### Specifications

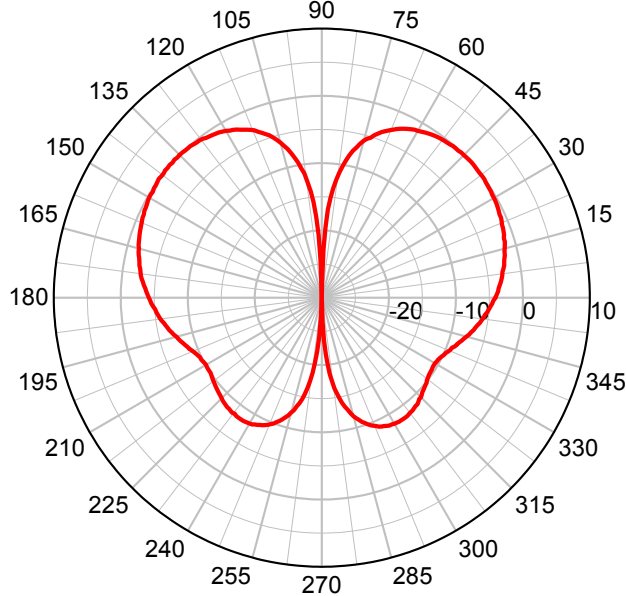
<b>Frequency:</b>	See above	<b>Hardware Supplied:</b>	Nut, sealing gasket attached
<b>Gain:</b>		<b>Mounting:</b>	1/2" Diameter stud (13 mm) 10/16" L (16 mm) for 3/8" thick surface (9.5 mm)
800/900 Bands	Unity Gain	<b>Pigtail Cable :</b>	RF-195, 1 foot (305 mm), request longer lengths at time of order
1.8/1.9 GHz Bands	2.5 dBi peak	<b>Pigtail Connector:</b>	SMA Male, others available
<b>VSWR:</b>	2.5:1 max, transmit range	<b>Jumper/Cable Option:</b>	Use jumpers for longer installation, or specify longer cable at time of order
<b>Operating Temp:</b>	-40° to +85° C		
<b>Nominal Impedance:</b>	50 ohms		
<b>Maximum Power:</b>	10 watts		
<b>Radome/Mount:</b>	1.0" diameter x 1.35" high (25 mm x 34 mm)		
<b>Case Material:</b>	ABS plastic, UV Resistant		

# MRM-900/1900 Antenna

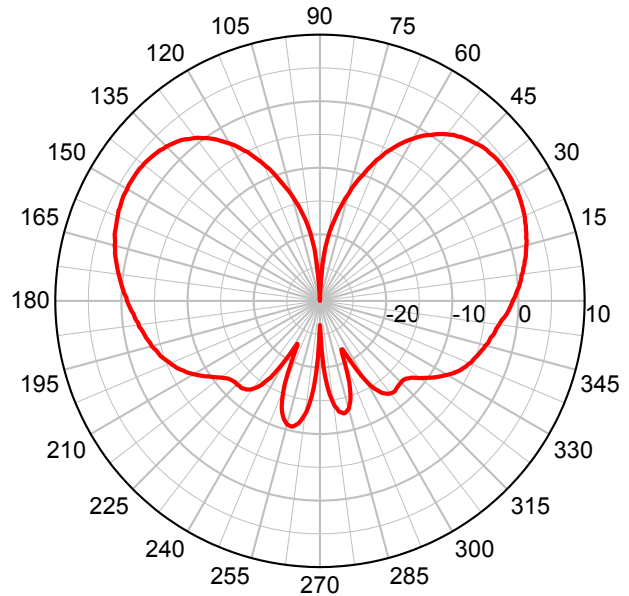
Mini Body Mount Dual Band “Bus” Antenna

824-894 MHz & 1850-1990 MHz

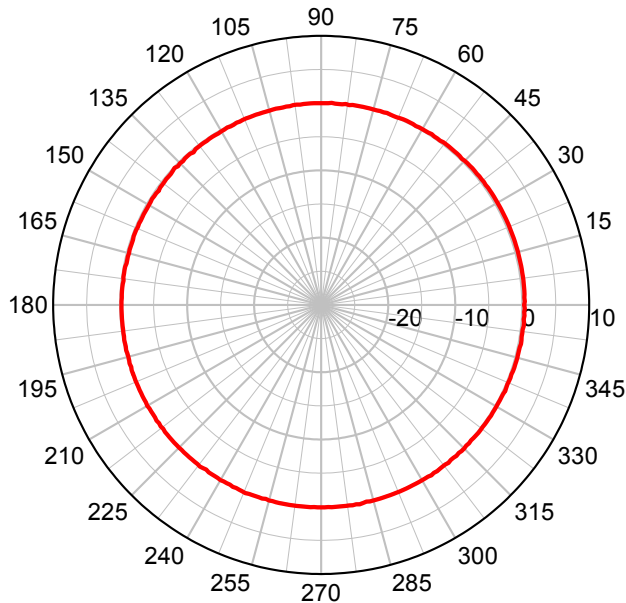
**MRM-900 Series – Elevation Plot**



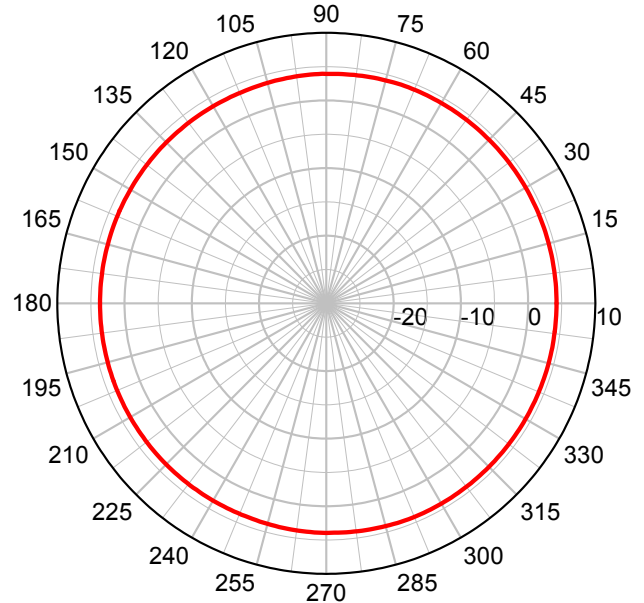
**MRM-1900 Series – Elevation Plot**



**MRM-900 Series – Azimuth Plot**



**MRM-1900 Series – Azimuth Plot**



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Visit our web page at [www.mobilemark.com](http://www.mobilemark.com). Specifications subject to change without notice (7/2005).