

Instruction Sheet

MA9 Mobile Antennas 900 to 928 MHz Operation

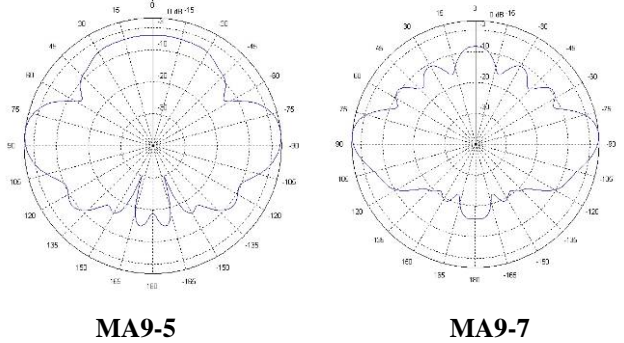
- 1:** Magnetic mounts can be mounted on any metal surface. The MM-90 mount is recommended for the 5dBi antenna and the MM-110 is recommended for the 7dBi antenna.
- 2:** The MM-TM trunk lid mount is designed to fit over the lip of a vehicle trunk. This mount is secure in that it cannot be removed without opening the trunk. Open the trunk lid and attach the mount to the lip of the trunk lid, secure with 2 screws, close the trunk lid.
- 3:** The MM-SM-LP and MM-SM-B surface mounts require drilling a 5/8" hole into the vehicle body then installing the mount with rubber seal on the outside of the vehicle body. These mounts are used for permanent installations.
- 4:** Route the RF cable. Be careful not to kink or pinch the cable as this may result in increased cable loss. Cable loss for the type of cable used is typically 0.1dB per foot so if the total cable length isn't necessary, the installer may decide to shorten the cable to minimize signal loss. A knowledge of cable connectorization is required in order to shorten the cable.
- 5:** Screw the antenna body to the mount. Hand tighten to ensure a good waterproof seal and electrical connection.



NOTE: It is advisable to remove the antenna from the mount before entering an automated car wash or damage to the antenna can occur.

NOTE: For best performance, mount antenna to at least 1 Meter diameter metal surface.

Specifications



Parameter	Min	Typ	Max	Units
Frequency Range	900		928	MHz
Input Return Loss (S₁₁)		-14		dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			100	W
Operating Temperature	-45		+70	Deg C

900 – 928 MHz	MA9-5	MA9-7	MM-90	MM-110	MM-TM	MM-SM-LP	MM-SM-B
Gain	5.5dB	7dB	Antenna Mounts				
Weight	3.9 Oz (120 g)	5.8 Oz (180 g)	1.5Lb (0.55Kg)	2.1Lb (0.8Kg)	0.7Lb (0.32Kg)	0.5Lb (0.23Kg)	0.5Lb (0.23Kg)
Dimension	16 in (40 cm)	20 in (50 cm)	3.5" (90mm) Dia	4.3" (110mm) Dia	3" (76mm)	1.5"x1.25" (38 x 32mm)	1.75" x 2" (44 x 51mm)
Cable Length	10' (3.5M) RG-58/U						
Connector	UHF Male	UHF Male	UHF in N Female out	UHF in N Female out	UHF in N Female out	UHF in N Female out	UHF in N Female out

