



EM-MG1 1006-SP

NMO Combination Roof Mount GPS Antenna

- Low-Profile aesthetics for minimal visibility and high pressure car wash survivability
- UV Stabilized, High Impact Xenoy™ housing
- Rugged aluminum die cast base for high strength mechanical mounting and reliability
- Silicone Rubber gasket and dual O-ring seals for waterproof installation

NMO Mount Electrical Specifications

Frequency Band	30 – 1000 MHz
VSWR ¹	1.5:1 typical
Impedance	50Ω
Cable Insertion Loss	2 dB, max
Power Rating	100 W

1. Antenna / Frequency Dependent

GPS (L1) LNA and Filter Specifications

Frequency Bandwidth (L1)	1575.42 ± 3 MHz
Input / Output VSWR	2.0:1 max
Impedance	50Ω
Gain	28 dB typical
Noise Figure (dB)	1.5 typical, 2.0 max
Operational Voltage (Vdc)	3.0 - 5.5 V
Current Drain (Idc)	7.0 - 15.5 mA
Filter Type	SAW
Filter Attenuation L1 ±50 MHz	30 dB min
Power Handling, Input	10 W
Passive Element	
Center Frequency Band	1575.42 MHz
Antenna VSWR	1.5:1 max
Impedance	50Ω
Polarization	RHCP

Mechanical Specifications

Height	0.88 in. (22.4 mm)	Color	Black
Width	2.2 in. (55.9 mm)	GPS Radiator	Ceramic, Silver
Length	4.5 in. (114.3 mm)	Operating Temperature	-40° to 85° C
Mounting Application	Bulkhead, ¾ in. Thru-Hole	Corrosion	Salt Fog
Cable NMO ²	RG-58/U; 17 ft. (5.1 m)	Humidity	95%
Cable GPS	RG-174/U; 17 ft. (5.1 m)		
Connector NMO	Sold Separately		
Connector GPS	SMA Plug		

2. Other cable types available upon request