Product Data Sheet



EM-MG11006-SP
EM-MG11006-SP-195

NMO Combination Mount GPS Antenna

- Low-Profile aesthetics for reduced visibility
- 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, high pressure car wash (IP66) applications

NMO Mount Electrical Specifications

Frequency Band	30 – 1000 MHz min
VSWR[1]	1.5:1 typical
Impedance	50Ω
Cable Type / Model	LL195 / (EM-MG11006-SP-195)
Insertion Loss	2 dB, max
Cable Type / Model	RG-58/U / (EM-MG11006-SP)
Insertion Loss	2.5 dB, max
Power Rating[1]	150 W, max

GPS (L1) LNA and Filter Specifications

Frequency Bandwidth (L1)	1575.42 ± 3 MHz
Input / Output VSWR	2.0:1 max
Impedance	50Ω
Gain	30 dB typical @5Vdc
Noise Figure (dB)	2.0 max
Operational Voltage (Vdc) Current Drain (ldc)	3.0 - 5.5 V 6.0 - 20.0 mA
Filter Type & Attenuation wrt L1 (L1 +50 MHz) (L1 ±100 MHz)	SAW 35 dB min 45 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)
Width	2.2 in. (55.9 mm)
Length	4.5 in. (114.3 mm)
Mounting Application	Bulkhead, ¾ in. Thru-Hole
Cable Length NMO[2]	17 ft. (5.1 m)
Cable Type / Length GPS	RG-174/U / 17 ft. (5.1 m)
Connector NMO	Sold Separately
Connector GPS[3]	SMA Plug

Color	Black
GPS Radiator	Ceramic, Silver
Operating Temperature	-40° to 85° C
Corrosion	Salt Fog
Humidity	95%
Vibration	AAR & MIL-STD-810E

1. Antenna / Frequency dependent.
2. Other cable types available upon request. MOQ Required.
3. Other connector types available upon request. MOQ required.

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