# 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)<br>Current Drain (ldc) | 3.0 - 5.5 V<br>6.0 - 20.0 mA |
| Filter Type & Attenuation wrt L1<br>(L1 +50 MHz)<br>(L1 ±100 MHz) | SAW<br>35 dB min<br>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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