



## EM-MG20001-SZSJ

### Multi-band GPS Roof Mount Antenna

- Aesthetically pleasing aerodynamic design
- Low-Profile 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 reliable waterproof installation

#### Electrical Specifications

Frequency Band (1)	824-894 MHz
Frequency Band (2)	1850-1990 MHz
VSWR	2:1 max
Impedance	50Ω
Gain	2.0 dBi
Power Rating	10 W
Polarization	Linear, Vertical
E-Plane	50 Degrees, Nominal
H-Plane	Omnidirectional

#### GPS (L1) LNA and Filter Specifications

Frequency Bandwidth (L1)	1575.42± 3 MHz
Input / Output VSWR	2:1 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 – 15.5 mA
Filter Type	SAW
Filter Attenuation L1 ±50 MHz	30 dB min
Power Handling, Input	10 W
<b>Passive Element</b>	
Center Frequency Band	1575.42 MHz
Antenna VSWR	1.5:1 max
Impedance	50Ω
Polarization	RHCP

#### Mechanical Specifications

Height	2.9 in. (74 mm)	Color	Black
Width	2.2 in. (55 mm)	Dual Band Radiator	PCB
Length	5.2 in. (132 mm)	GPS Radiator	Ceramic, Silver
Mounting Application	Bulkhead, ¼ in. Thru-Hole	Operating Temperature	-40° to 85° C
Cable (Both Feeds)	RG-174/U; 6 in. (12.7 mm)	Corrosion	Salt Fog
Connector 800/1900 MHz	SMA Rev. Polarity Jack	Humidity	95%
Connector GPS	SMA Jack		