



MAR-4 GPS & GSM Dual Marine Antenna



Features

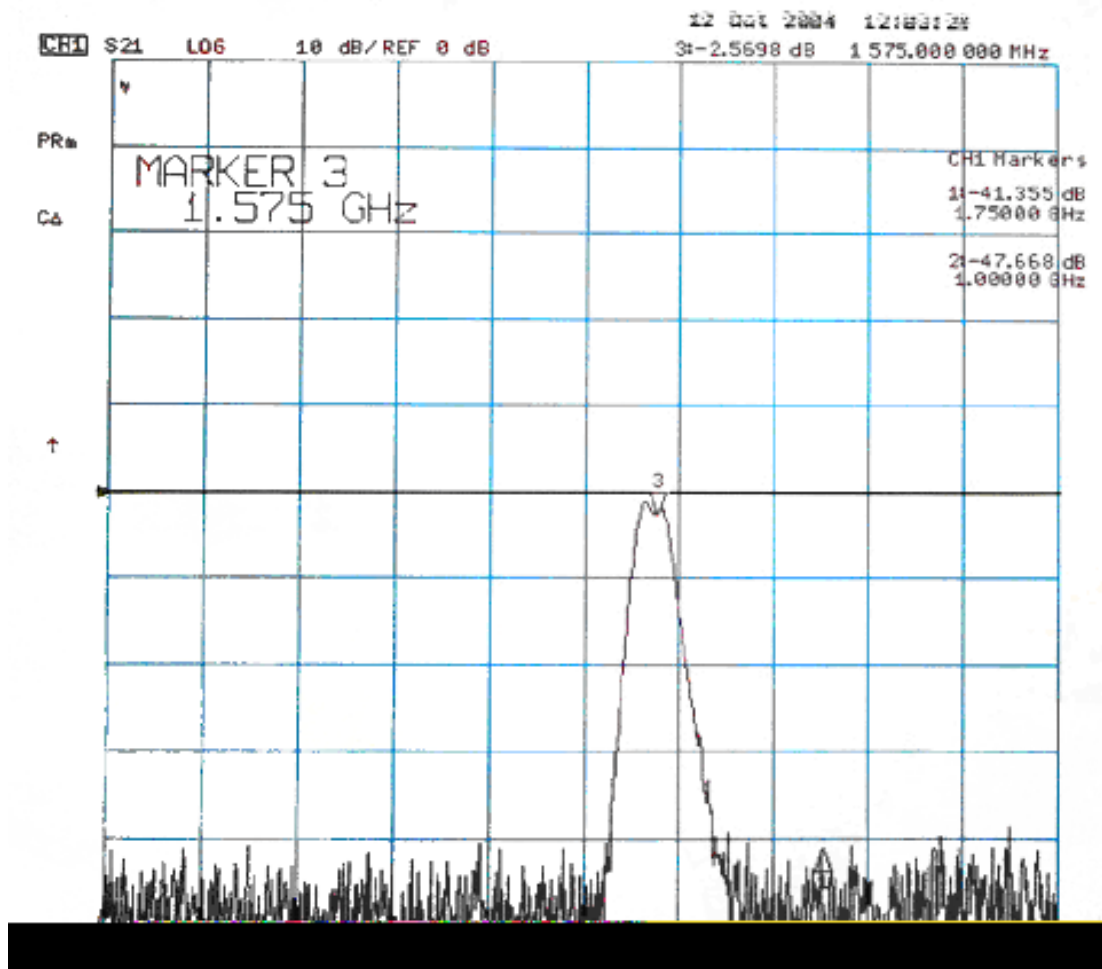
- Water resistant & sunlight proof
- Screw mount
- 10 watt RF protection design
- Wide power supply range and short-circuit protection
- 3 signal noise filters and 2-stage LNA
- Silver-coated conducting pin
- Double-shielding cable
- RoHS compliant

Specifications

Architecture	
RF protection (10 watt)	
2 Stages active LNA (Low Noise Ampflier)	
Dual Filters, (HPF & LPF (Lump element))	
Dielectric Patch antenna	
Low Noise Low drop-out, Linear Regulator	
GPS receiver short circuit protect	
Low Loss RG/174 Coax cable	
Aluminum Base/ PC+ Radome Plastic	
Mechanical & Environmental	
Dimensions (d x h x w)	79 x 58 x 13 mm (CHECK THIS !!)
Mount	13mm treaded (1/2inch)
Radome Color	White
Operating Temperature	-40 to +85° C
Humidity	40% to 95% RH
Storage Environment	
Temperature	-40 to +85° C
Humidity	40% to 95% RH
Output Terminal	
Coax Cable	RG-174U double shielded 5m, Low Loss 0.7dB/m
Cable Length	3M, 5M or upon request
Coax Connector	BNC SMB Fakra SMA MCX MMCX GT5 or on request
Cable Color	Black
Electrical Specification	
Note: All value are defined at 25±15° C ,65±20 % RH unless otherwise noted.	
Note: Antenna characteristics are measured with 70x70 mm ground plane in an anechoic chamber.	

GPS Antenna	
Center Frequency	1575.42±1.023 MHz
Bandwidth	10 MHz @ -3dB point
Polarization	R.H.C.P
Axial Ratio	2.0 dB max
Over-Current	Thermal Over-current shutdown >+150° C
RF noise protection	RF protection(10watt), nano-second Spark-Gap
LNA	
Center Frequency	1575.42±1.023 MHz
Over-all Gain	28 dB (typical including 4dB cable loss & Filters)
Over-all NF	<1.8 dB @fo, 2 dB max.
Output V.S.W.R	1.5 dB max
LNA Characteristic	
K=>1 Un-conditionally Stable	
Voltage	+3 Vdc to + 6 Vdc input, Auto Switching
Current	11~13mA±2
GSM ANTENNA	
Frequency	GSM: 900~1800 MHZ
VSWR	1.5 MAX
IMPEDEANCE	50Ω
Polarization	R.H.C.P
Gain	3dBi
Power handling capacity	40 W

Active-1 PLOT-1



Active-1 PLOT-2