
GPS & GSM/3G Combo Antenna

- **GPS Active Antenna**
- **High Gain**
- **GSM/3G Antenna**
- **Indoor Use**
- **Adhesive Mount**



ADA-0114 is designed for GPS navigation in combination with Wireless communication applications.

Penta Band Wireless communication antenna

Inside windshield mounting is preferred. The antenna has a small foot print and adhesive tape for mounting.

RoHS

Optimal position for automobile applications is inside the windshield of the vehicles. If the GPS antenna unit is to be placed inside the car, be certain to avoid coverage by metal objects or behind heated windshield, for optimal performance.

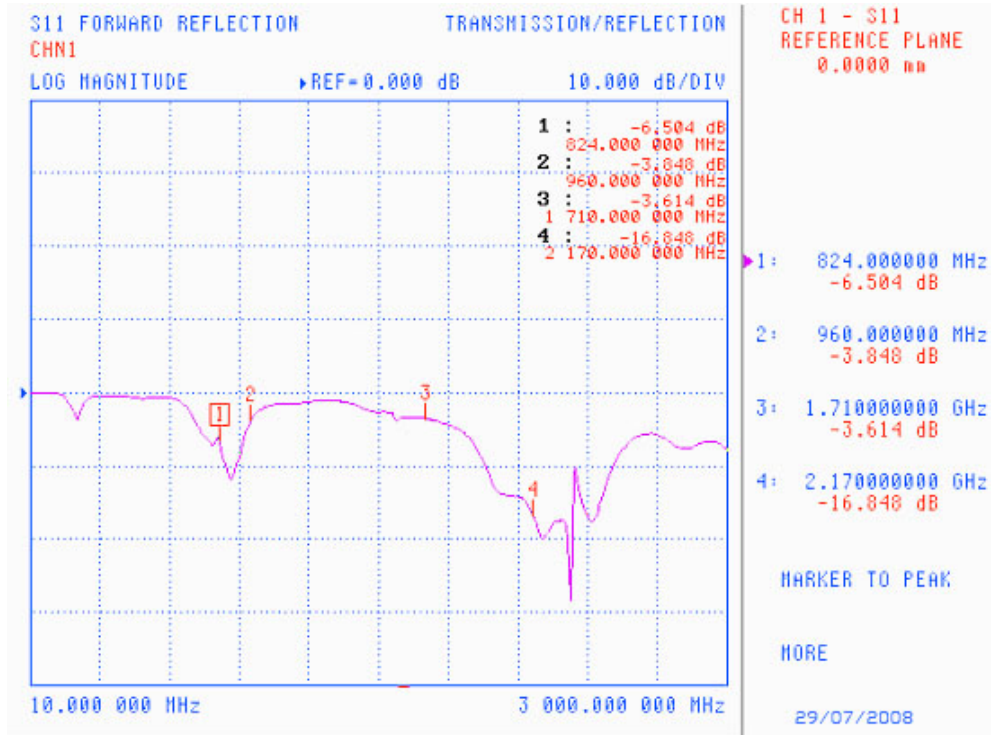
Specification

Antenna	Specification
GPS	
Frequency	1575.42 ± 1.023MHz
Antenna Dimension	25mm x 25mm x 4mm
Gain	+5.0 dBic typ, at Zenith
Polarazation	R.H.C.P
Axel Ratio	3.0dB Typ.
LNA	
Frequency Range	1575.42 ± 1.023MHz
Gain	28dB Typ.
Noise Figure	1.5dB Max
Output Impedance	50Ω
Total Specification	
Frequency Range	1575.42 ± 1.023MHz
Gain	32dB Typ - 1.2dB/m cable
Output Impedance	50Ω
VSWR	2.0 Max
RF Cable	RG174 , ∅2.7 ± 0.1mm , 3m
RF Connector	SMA (M)
Electrical Specification	
Operating Voltage	Min: 2.5 V Typ: 3.0 V Max:5.5 V
Current Consumption	Typ: 8.6 mA Max: 16.6mA @ 5.5.0V
Environmental Cond.	
Operating Temperature	-30°C to + 80°C
Storage Temperture	-40°C to + 80°C
Relative Humidity	40% to 95%

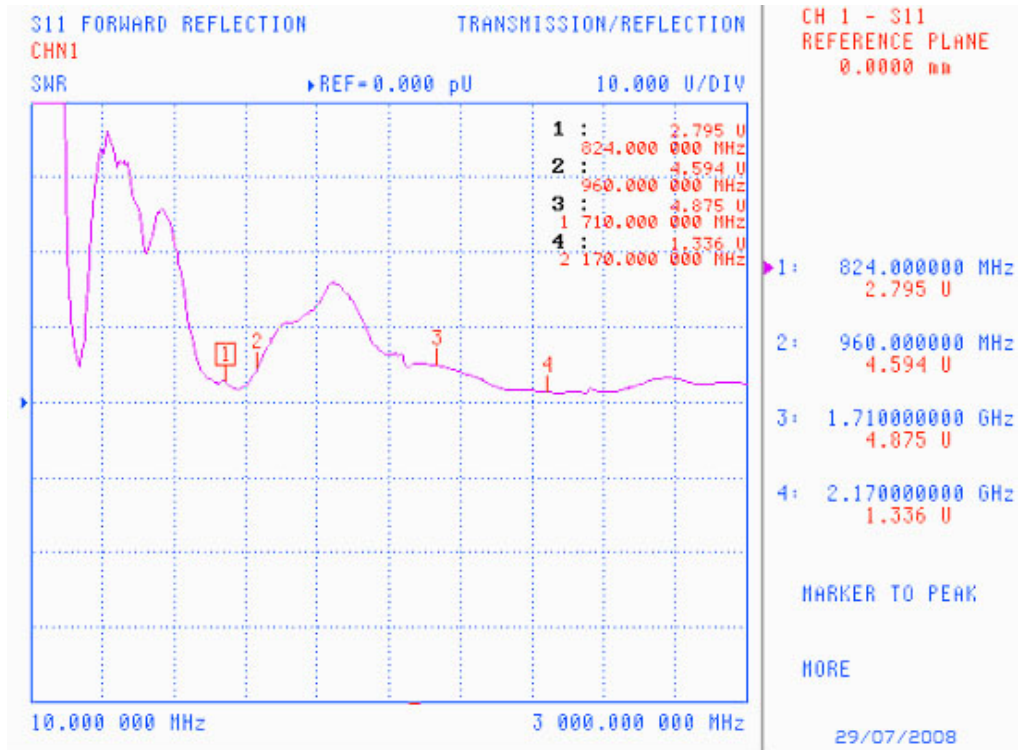
GSM/3G	
Frequency Band	824~960/1710~2100
Antenna Type	Embedded antenna
Nominal Impedance	50 ohm
V.S.W.R 824MHz	2.8 : 1 max
V.S.W.R 960MHz	4.6 : 1 max
V.S.W.R 1710MHz	4.9 : 1 max
V.S.W.R 2100MHz	1.4 : 1 max
Polarization	H-Plane

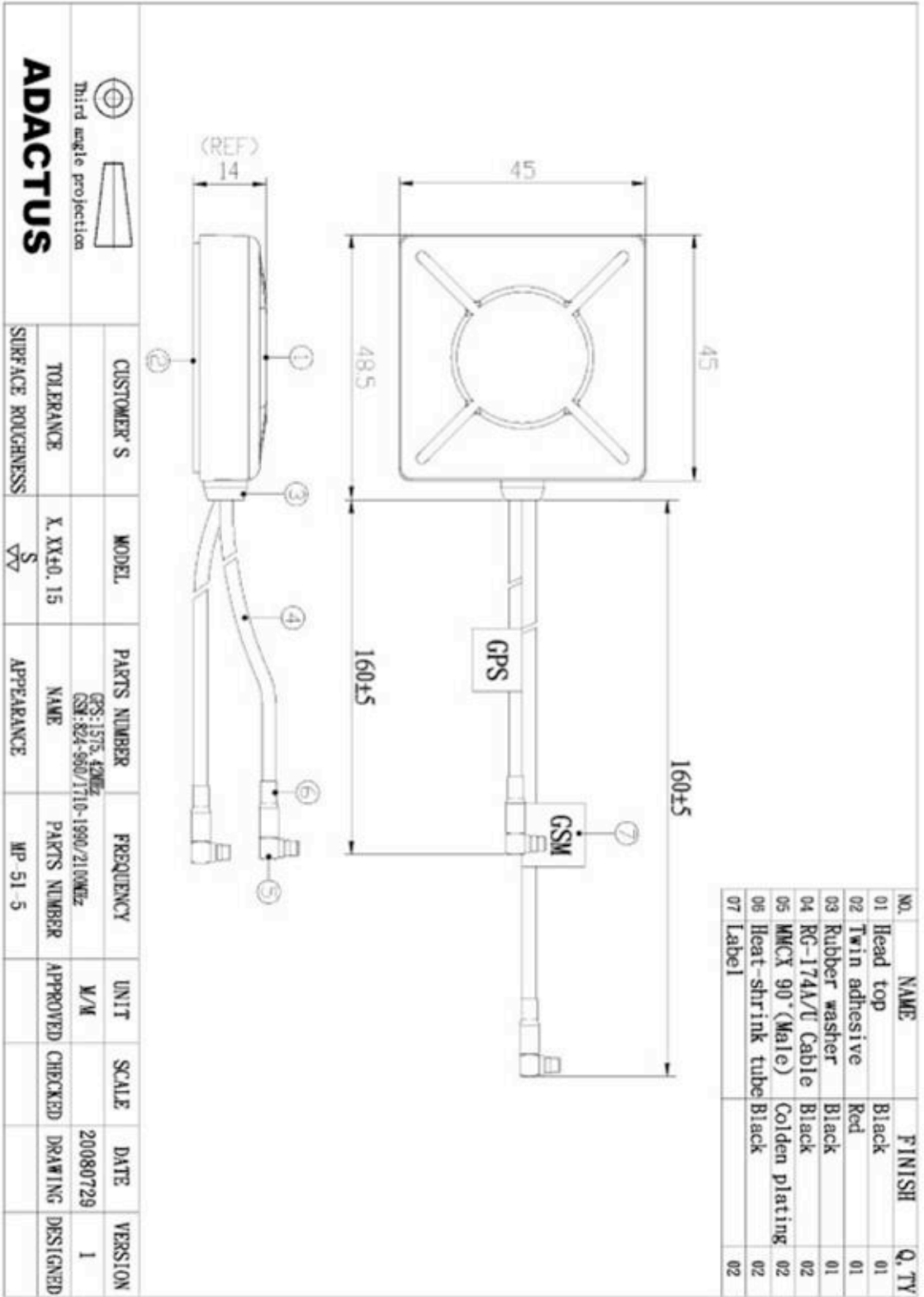
Mechan. Specification	
RF Cable	Standard 3 m RG174/U with standard connector
RF Connector	SMA, FME, MMCX, or any standard connector
Size	45 x 45 x 14mm
Weight	120g
Mounting	Adhesive mount, Antenna facing toward mounting tape
Housing Material	ABS

Return Loss



V.S.W.R





Ordering codes

TYPE	Description	Comment
ADA-0114-S	GPS & GSM/3G Antenna	Adhesive Mount Puck Antenna

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