Specification



SPECIFICATION

Part No. : GP-1575-12-4-A-14

Specification No : 9118C011575I50004 (AA015)

Product Name : 12mm*12mm*4mm GPS Patch Antenna

Features : ROHS Compliant







REVISION STATUS

Version	Date	Page	Revision Description	Prepared	Approved
01	Apr 06 ^{tth} 2007	All	New release	TW Product Centre	Ronan Quinlan

Specification



1.0 Introduction

This miniaturized ceramic GPS patch antenna is based on smart *XtremeGain*™ technology. It is mounted via pin and double-sided adhesive.

2.0 Key Antenna Performance Indicators

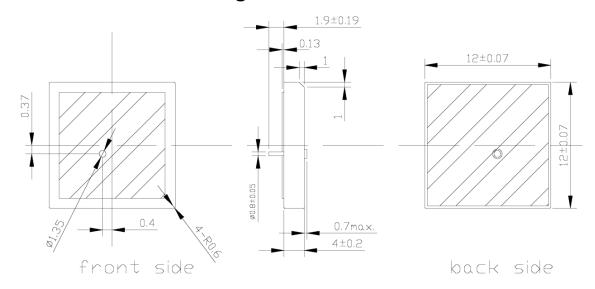
Original Patch Specification tested in custom housing and ground plane

No	Parameter	Specification		
1	Range of Receiving Frequency	1575.42MHz +/- 1.023MHz		
2	Center Frequency	1575MHz ± 2 MHz when tested in custom housing and ground plane		
3	Bandwidth	7 MHz min Return Loss <-10dB		
4	VSWR	1.5 max	Center Frequency	
5	Peak Gain	-1.7 dBiC typ		
7	Polarization	Right Hand Circular Polarization		
8	Impedance	50 Ohms		
9	Frequency Temperature Coefficient (1f)	0 ± 20ppm/C	-20°C to +80°C	
10	Operating Temperature	-40°C to +105°C		
11	Electrode Plating Adhesion	>4		



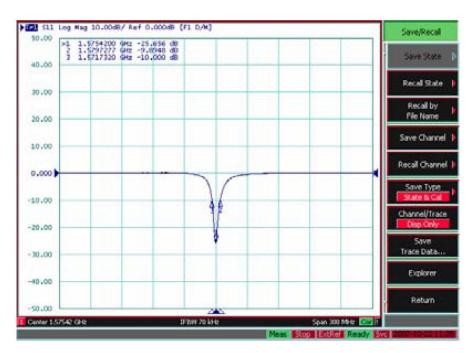
3.0 Mechanical Specifications

I. Dimensions and Drawing



4.0 Electrical Specifications

I. S11 Return Loss

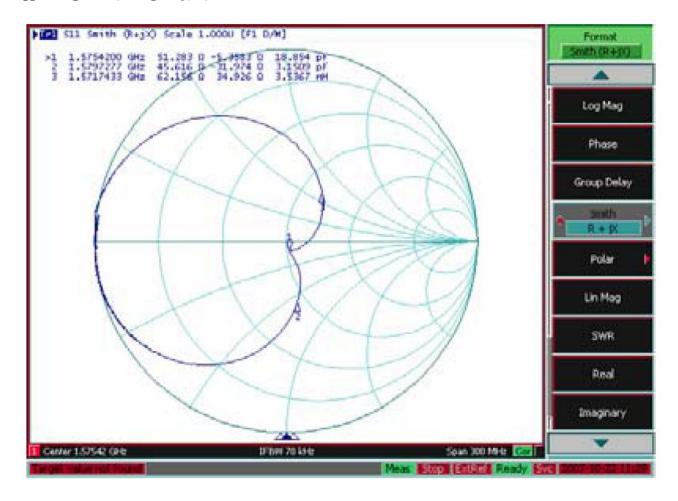


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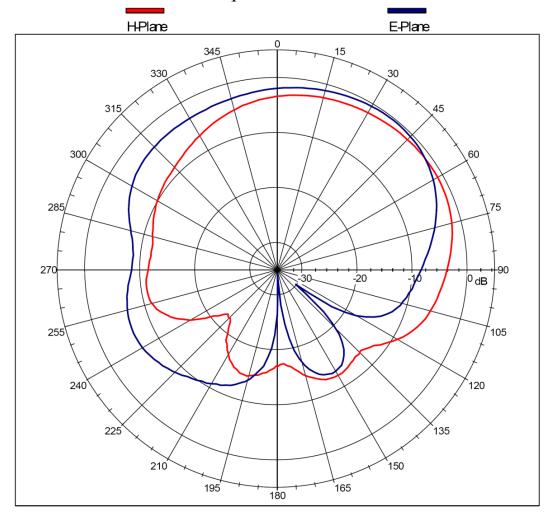
II. Smith Chart





III. Radiation Pattern (under custom housing and ground plane))

Far-field amplitude of AA015-H.nsi



Right hand circular polarized signal f0=1575.42MHz