

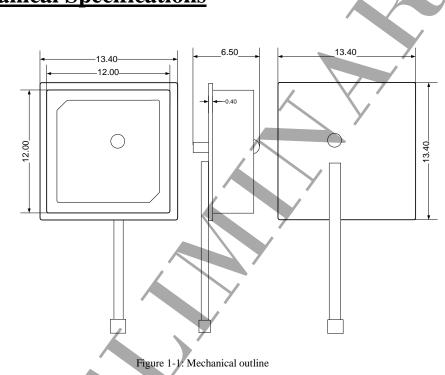
GPS Antenna Datasheet

1. General

ORG9802 is a miniature antenna assembly, comprising four components:

- 1. Ceramic patch antenna element
- 2. Adaptor PCB
- 3. Coaxial cable (option)
- 4. Connector (option)

2. <u>Mechanical Specifications</u>



Dimensions	Length	Width	Thickness	Weight	
mm	13.4 ± 0.2	13.4 ± 0.2	6.5 ± 0.1	gr	4.0
inch	0.528 ± 0.008	0.528 ± 0.008	0.256 ± 0.004	oz	0.14

Table 1-1: Mechanical summary



GPS Antenna Datasheet

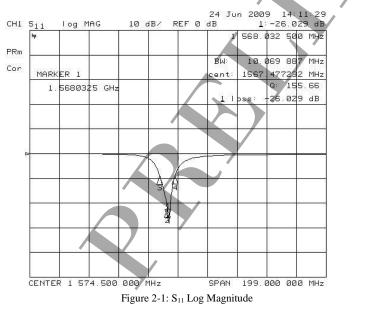
3. Specifications

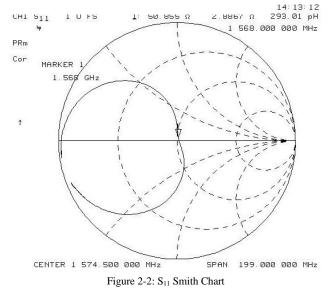
3.1. Electrical Characteristics

Parameter		Value	Unit	Notes	
Center frequency (f _c)		1575 ± 3	MHz		
Return Loss (S ₁₁)		-15 (min)	dB	@f _c	
Bandwidth (BW)		7 (min)	MHz	@ f(S ₁₁ =-9dB)	
VSWR		1.2 (max)			
Impedance (Z _A)		50	Ω		
Axial Ratio (AR)		2.5 (max)	dB		
Gain @ f _c	90 ⁰ Elevation	-1.0 (typ)	dBic	Properties of antenna element	
	10 ⁰ Elevation	-6.5 (typ)	dBic		
Polarization		R.H.C.P			
Insertion Loss (S ₂₁)		3	dB/m	Property of coaxial cable	
Operating Temperature		-40 to +85	°C		



3.2. Typical S₁₁¹







1. Measured with 38mm length cable and W.FL connector

Document number: 300311For technical questions contact: info@origingps.comwww.origingps.comRevision: A00Confidential31-03-2011- 2 -



4. Assembly

Antenna assembly without connector is intended for manual RoHS Pb-Free iron soldering with Sn:Ag:Cu 96.5:3.0:0.5. Soldering temperature is 300 ± 5°C, 5 sec. max Antenna assembly with connector is intended for manual assembly process.

5. Storage

Avoid intentional shock or drop to prevent cracking of antenna.

6. Compliance

Antenna assembly was designed and being manufactured and handled to comply with and according with Pb-Free/RoHS Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment. Antennas are manufactured in ISO 9001:2000 accredited facility.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by Origingps manufacturer:

Other Similar products are found below :

 CCT
 FM1
 ABFT
 AD-NM-SMAF
 001-0021
 CTC110
 MAF94149
 EXE902SF
 MMCX-SMA-100
 PDQ24496-91NF
 GAN30084EU
 930

 033-R
 A08-HABUF-P5I
 AAF95035
 DG-ANT-20DP-BG-B
 APAMPGJ-141
 1513563-1
 OF86315-FNF
 OP24516DS-91NM
 A09-HASM-7

 EXE902MD
 EXE902SM
 SPDA17806/2170LAR
 APAMPG-117
 GPS1575SP26-004
 GPS15MGSMA
 CMD69273P-30NF
 CMQ69273-30NF

 RD2458-5-OTDR-NM
 RD2458-5-RSMA
 TRAB24/49003
 W4120ER5000
 W6102B0100
 YE572113-30RSMM
 108-00014-50

 SPDA17RP918
 OP24516SX-91NM
 OP24516SX-91RSMM
 CMQ69273P-30NF
 CMS69273-30NF
 CMS69273P-30NF
 TRAB24003N

 TRAB24003NP
 TRAB8903
 A09-Y8NF
 A09-Y11NF
 A09-F8NF-M
 A09-F5NF-M