

KNCTEK INTERNAL GPS ANTENNA KANT-3101 Specification

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2012/04/10

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KANT-3101 SPECIFICATION

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Revision History

1. 2012-04-10 : Initiated Version 1.0

Introduction

KNCTEK's KANT-3101 Antenna is designed for internal antenna mode to have excellent bandwidth signal and perform to receive GPS satellite signals.

We are proudly introducing this GPS antenna to satisfy our customer with best performance.

1. Application

This specification apply to GPS Antenna

2. Condition of using antenna

Stick it to use external magnetic of Antenna head

3. Specifications

3-1. Antenna Element Electrical Specifications

Item	Specification	Unit
Frequency	1575.42 \pm 1.023	MHz
Polarization	RHCP	–
Gain/ Peak	1.0 typ. @ 18x18mm GND	dBic
Bandwidth	5 min @ 18x18mm GND	MHz
Impedance	50	ohm

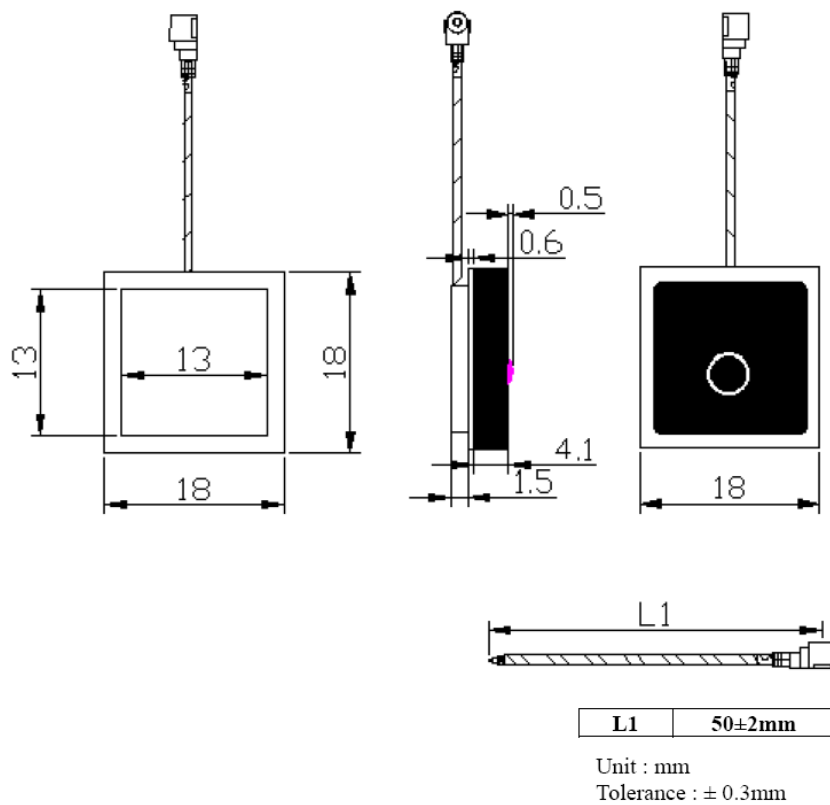
3-2. LNA Electrical Specifications

Item	Specification	Unit
Frequency	1575.42 \pm 1.023	MHz
Gain	27typ.@ LNA only	dB
Noise Figure	1.3 typ	dB
Output VSWR	1.5 : 1 typ	–
Voltage	DC 3.0 \pm 0.3	V
Current	10 typ	mA
Impedance	50	ohm

3-3. Mechanical Specifications

Item	Specification	Unit
Height	Max. 7.2	mm
Width	18.0 x 18.0 ± 1.0	mm
Cable/Connector	9851SC0032-002 Ø 1.13mm, L1 = 50 ± 2mm/ I-PEX	-
Switch Connector	-	-

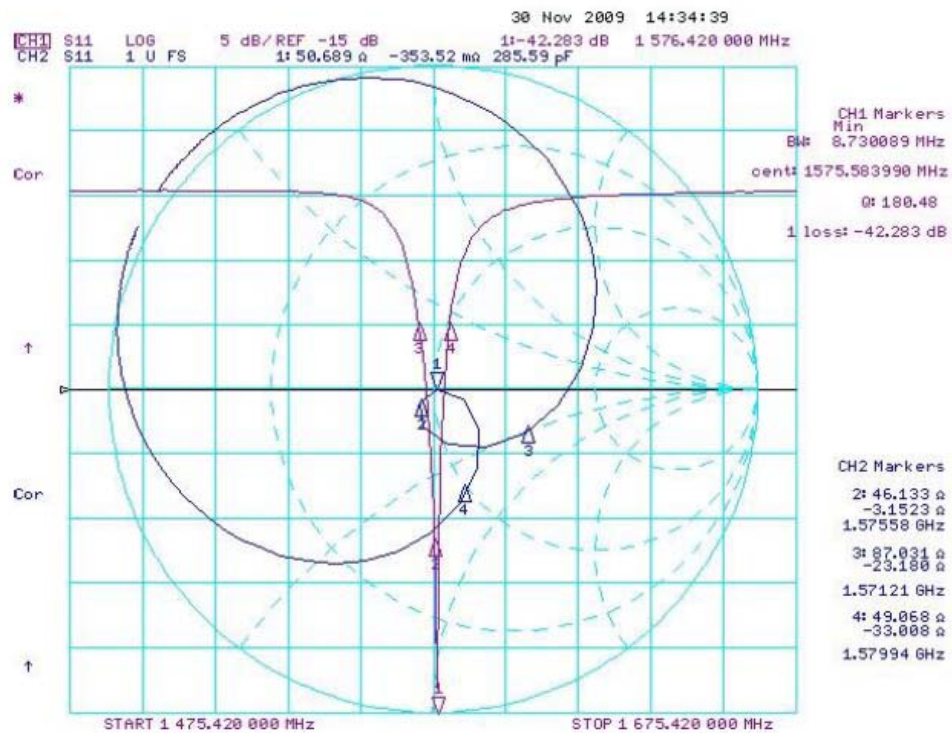
3-4. Appearance



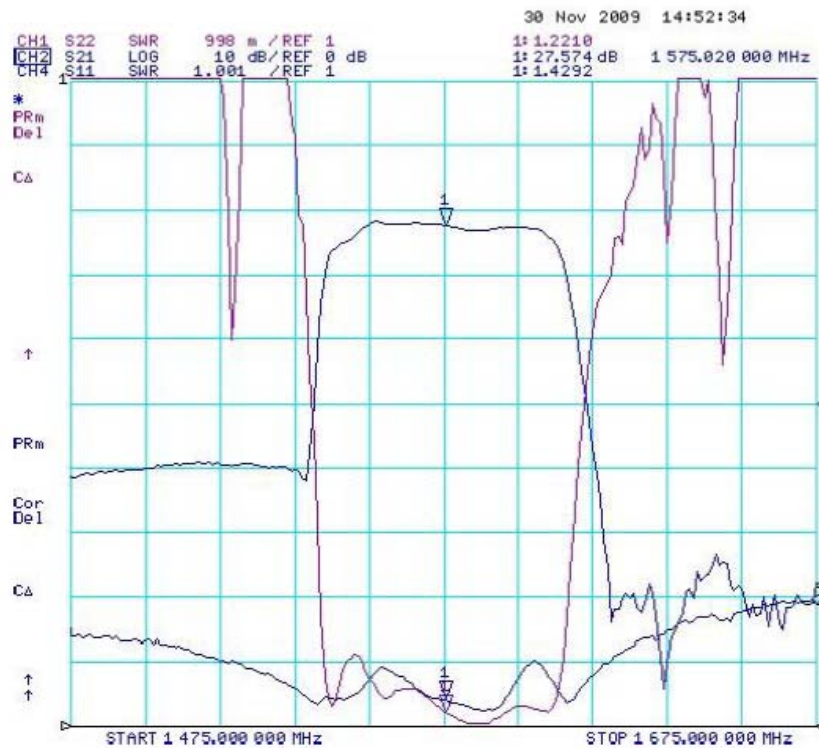
3-5. Environmental Specifications

Item	Specification	Unit
Operating Temp	-20 ~ 60	°C
Storage Temp	-40 ~ 85	°C

3-6. Typical S11 of Antenna



3-7. Typical LNA Gain



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