



KNCTEK EXTERNAL GPS ANTENNA KANT-3001 Specification

Version 1.0
2011/04/10

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KANT-3001 SPECIFICATION

Introduction

Knctek's KANT-3001 Antenna is designed for external 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

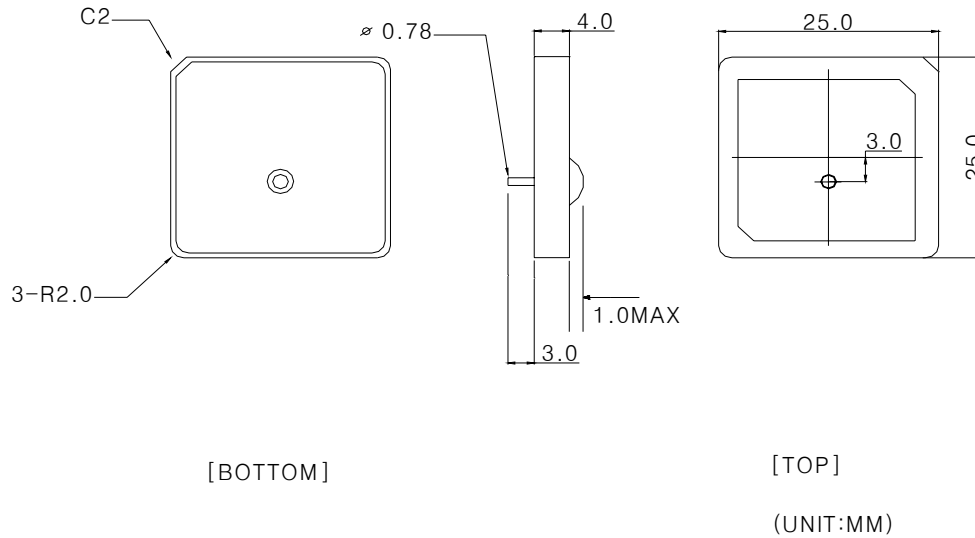
3. Electrical characteristic & performance

A. Ceramic Patch Antenna

✓ SPECIFICATIONS

Part Number	Outline Dimension	Ground plane
JC-GD1592T4-25	25 mm	70 x 70 mm
Center Frequency	1594 \pm 3 MHz	
Band Width	20 MHz min. (@-10 dB)	
Impedance	50 Ω	
Gain@Zenith	5.0 dBi typical	
Temperature Coefficient	20 ppm/ $^{\circ}$ C max (-40 to +85 $^{\circ}$ C)	
Polarization	Right Hand Circular Polarization	

✓ DIMENSION 1 (GPS PATCH)



B. GPS Active Antenna

✓ LOW NOISE AMPLIFIER

FREQUENCY	1575.42MHz \pm 1.023MHz
VSWR	2.0 : 1 (MAX)
GAIN	30 \pm 2dB (30dB : Typical)
IMPEDANCE	50 Ohm
NOISE FIGURE	0.8dB (Typical), 1.5dB (MAX)
BAND ATTENUATION	Fo + 50MHz 15dB (MIN)
	Fo – 50MHz 20dB (MIN)
VOLTAGE	DC 3~5 \pm 0.3 [V]
CURRENT	20[mA] (Typical), 30[mA] (MAX)

4. Mechanical Specification

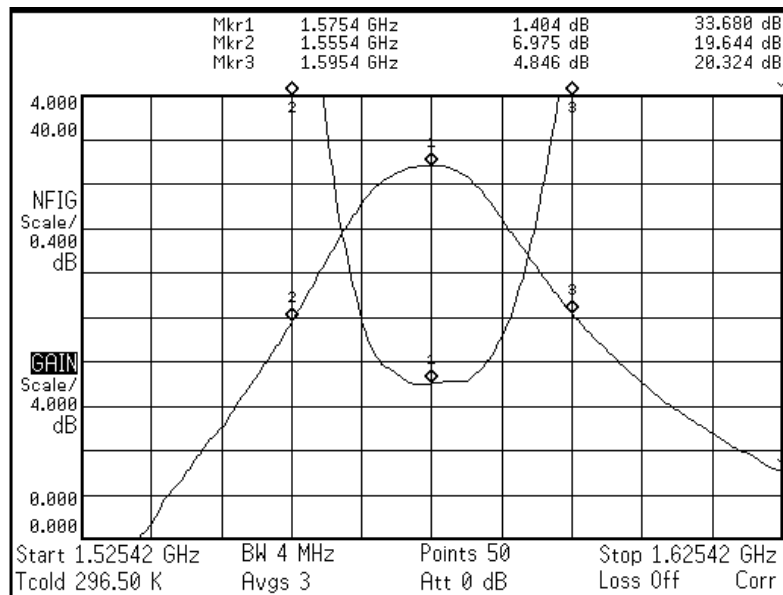
CABLE	RG-174, 3M as default or per Request
CONNECTOR	SMA as default or per Request
MOUNT TYPE	MAGNETIC
CASE MATERIAL	PC/ABS

5. Environmental Specification

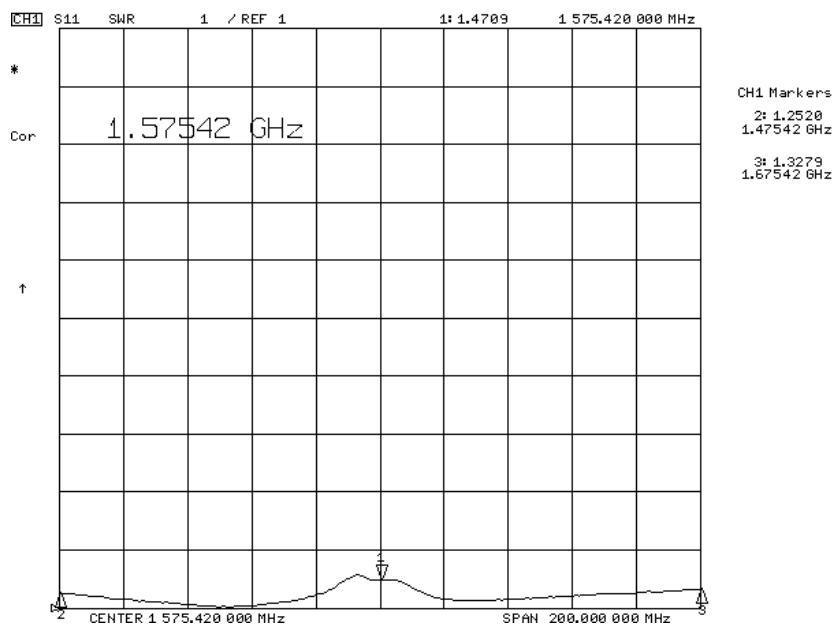
OPERATING TEMP	-30℃ ~ +85℃
STORAGE TEMP	-40℃ ~ +100℃
WATER PROOF	WATER RESISTANT

6. DATA

(1) LNA GAIN & N.F.



(2) LNA VSWR



7. Dimension View

