

ANTENNA PRODUCTS

DATA SHEET

1.575 GHz Circular Polarized Pin Feed Ceramic GPS Antenna (18*18*4 mm)

2007 Jan Rev.4

18*18*4 mm Pin Feed Ceramic Antenna for GPS Application				CAN4313 424 031581B				— ▶	1	Dec. 23, 02	
								— ▶	2	Apr. 21, 03	
								— ▶	3	Jan, 06	
BY / 製定者	Sunwiun Hu	SUPER / 原圖編號	C.T. Lee	TLL.SH / 共頁	10	PAGE/ 頁	1	SH nr.	— ▶	4	Jan. 2007
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CERAMIC ANTENNA (CIRCULAR POLARIZATION PIN FEED TYPE) FOR GLOBAL POSITIONING SYSTEMS (GPS) (1.575G Hz)

Product Specification¹

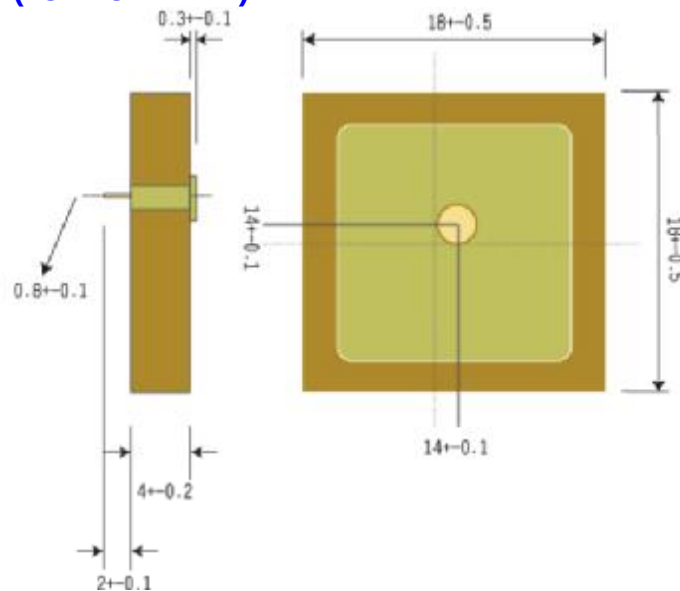
QUICK REFERENCE DATA

Central Frequency	1.575 GHz*
Bandwidth	10 MHz**
Gain	4 dBi **
VSWR	2.0 max
Polarization	Right Hand Circular Polarization
Axis Ratio	3dB
Impedance	50Ω
Operating Temperature	-25~125 °C

* Central frequency will shift 5 MHz down when a non-metal cover is placed

**with 50 * 50 mm square Ground Plane

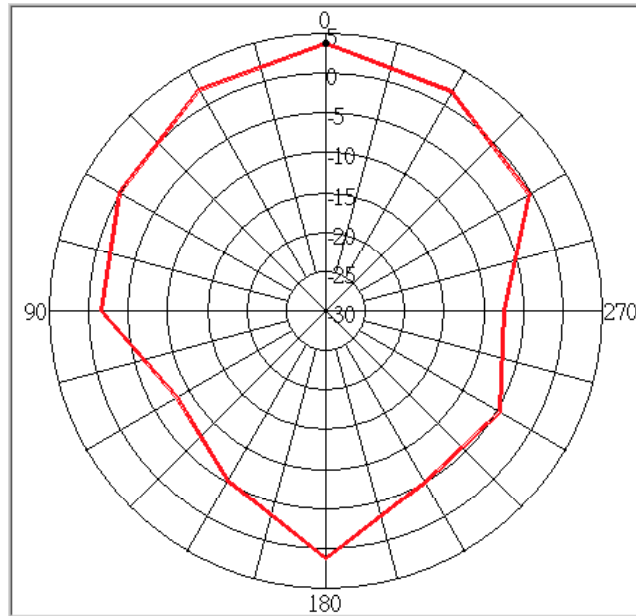
MECHANICAL DATA (18 * 18 * 4 mm)



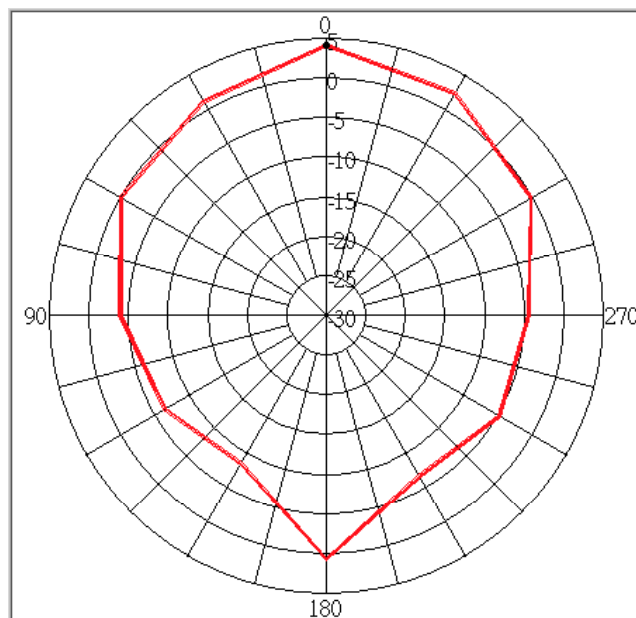
¹ All the technical data and information contained herein are subject to change without prior notice

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2D Circular Gain Measurement



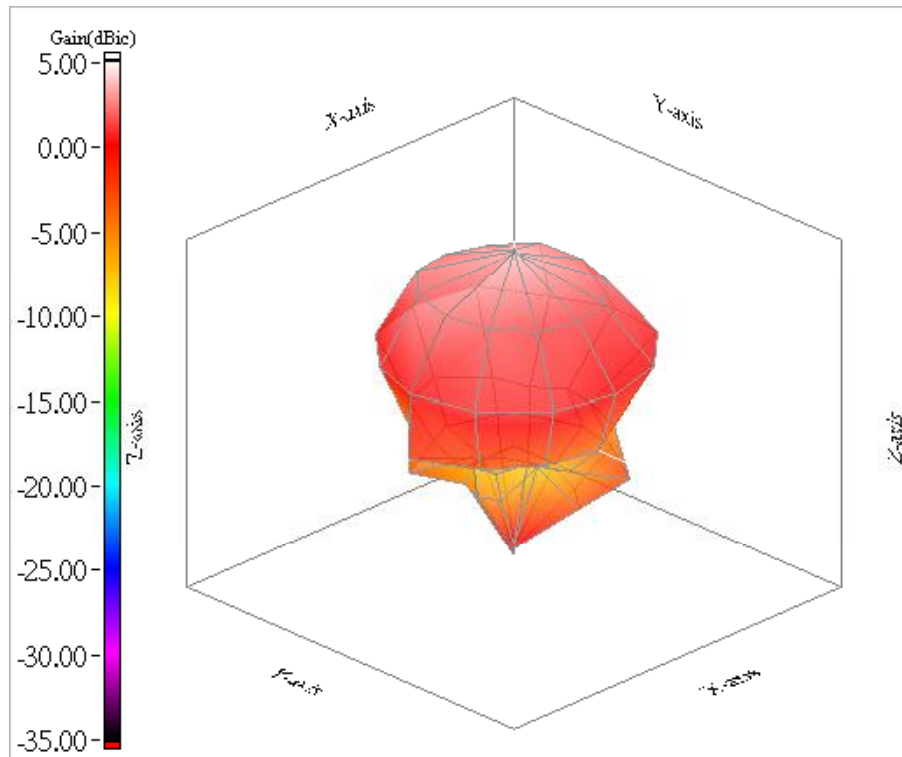
Circular gain 2D x-z plane pattern



Circular gain 2D y-z plane pattern

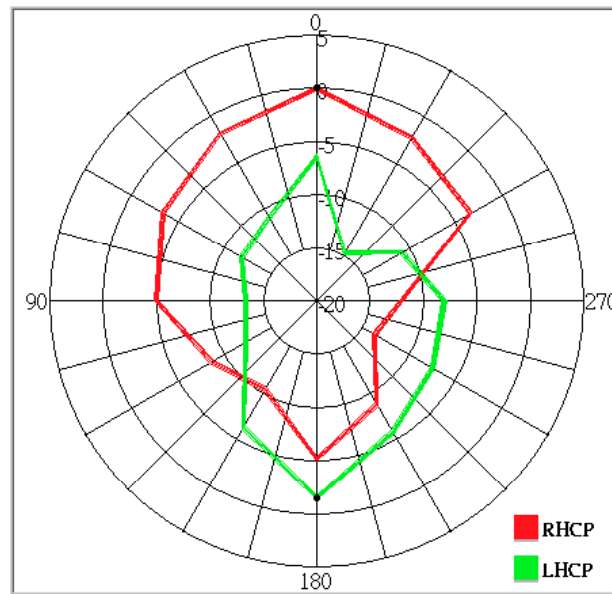
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3D Circular Gain Measurement

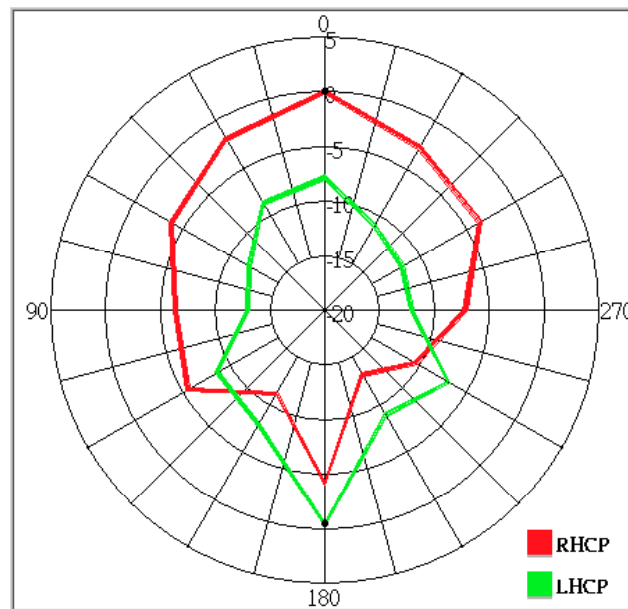


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Circular gain 2D pattern



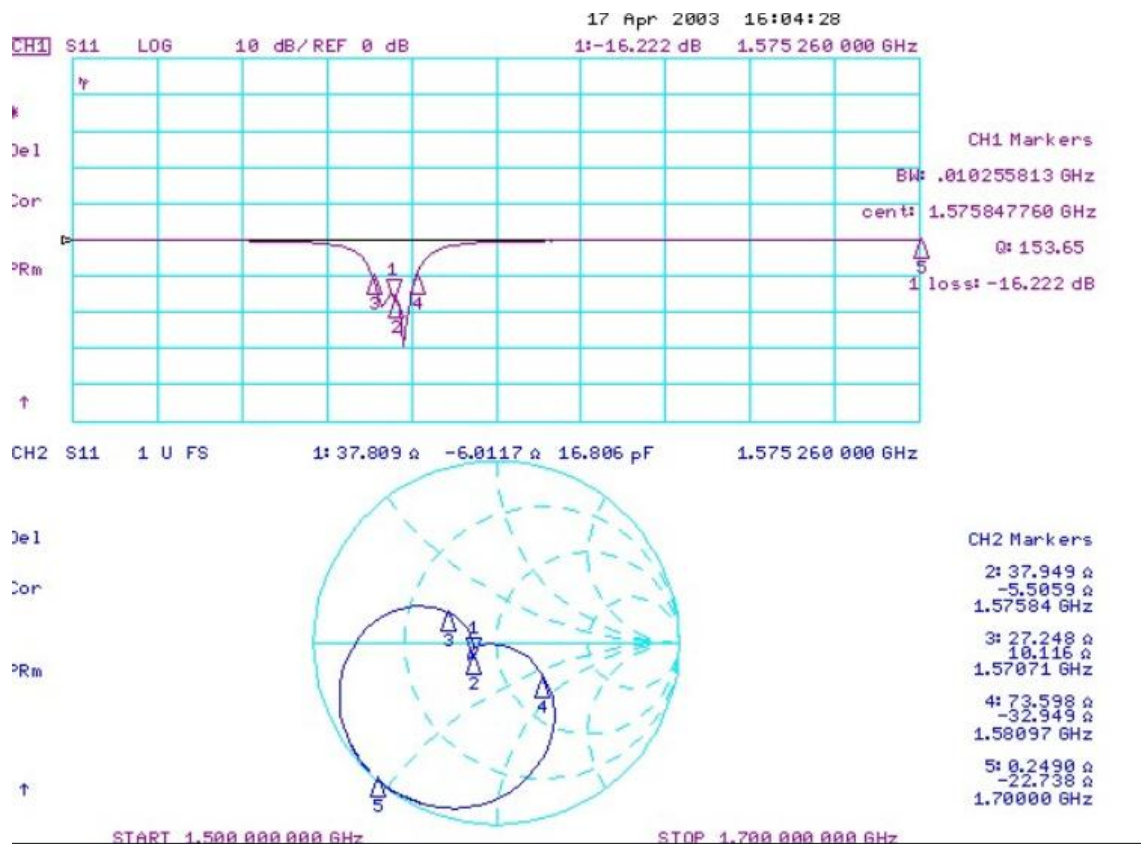
Circular gain 2D x-z plane pattern



Circular gain 2D y-z plane pattern

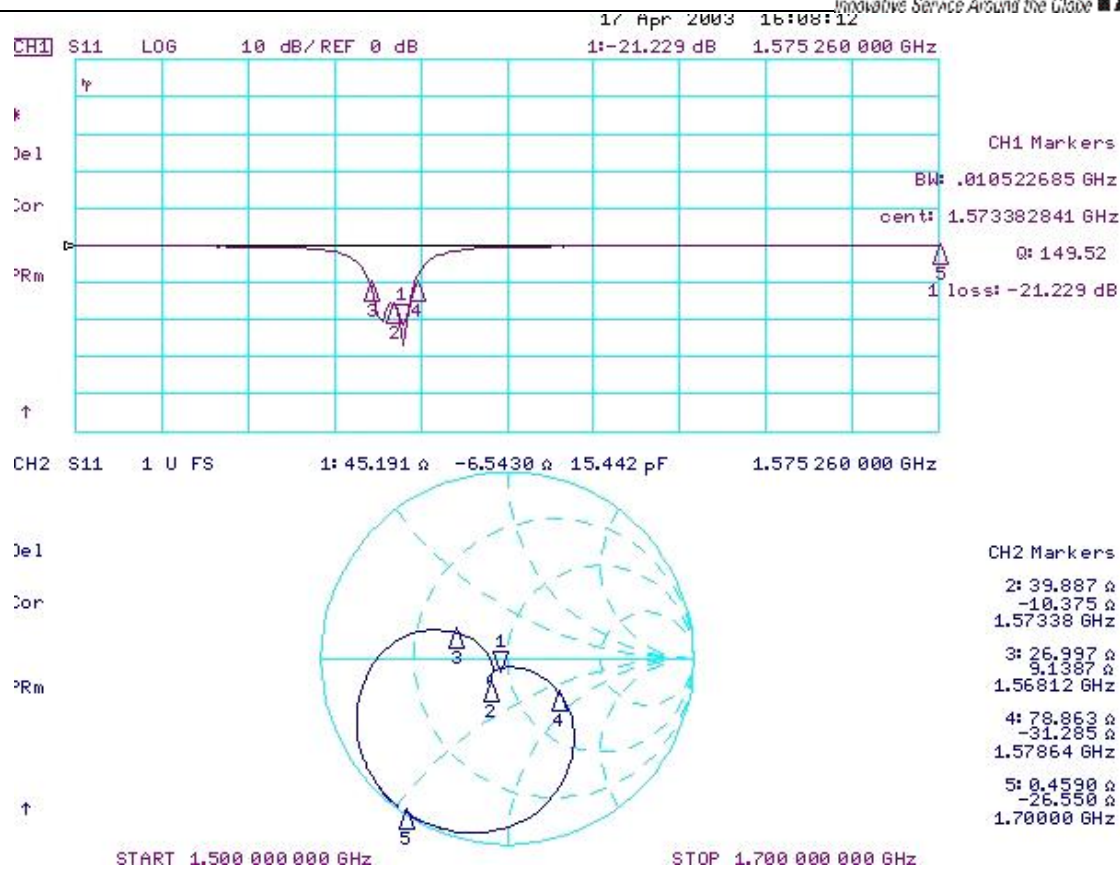
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Return Loss and Smith Chart (with 50 * 50 mm square Ground Plane)



With tape but without Liner

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With tape and Liner

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Ceramic Antenna
for GPS Application

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ORDERING INFORMATION: Ordering Code

The antennas may be ordered by using the ordering code. These code numbers can be determined by the following rules:

CAN43 13 4 24 03 158 1B
F C M S T A P

F. Family Code

CAN **43** = Antenna

C. Packing Type Code

13 = bulk packing

M. Materials Code

4 = High Frequency Material

S. Size Code

24 = 18 * 18 mm

T. Type

03 = Pin Feed Type 3

A. Working Frequency

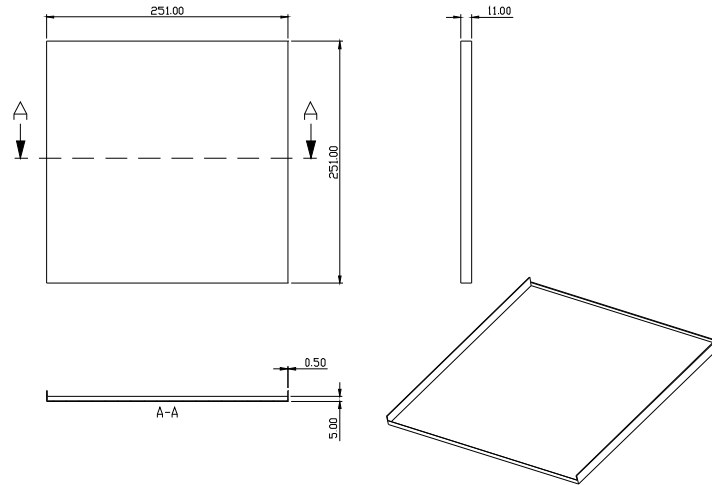
158 = 1.575 GHz

P. Packing Type Code

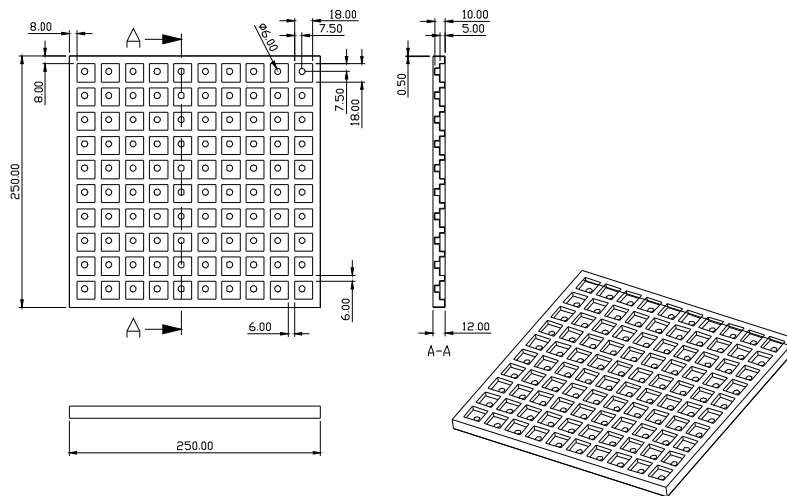
1B = bulk packing

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Packing Information



Cover Tray



Bottom Tray

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Revision Control:

Revision	Date	Content	Remark
1	Dec. 23, 2002	New Issued	
2	April 21, 2003	Dimension Tolerance, Packing style, and product picture	
3	Jan, 2006	Modify the measuring graph	
4	Jan, 2007	Add CP radiation patterns	

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