

ANTENNA PRODUCTS

DATA SHEET

1.575 GHz Circular Polarized Pin Feed Ceramic GPS Antenna (18*18*2 mm)

March, 2007. Rev.3

18*18*2 mm Pin Feed Ceramic Antenna for GPS Application				CAN4313 424 021581B				— ▶	1	11. 23. 06	
								— ▶	2	Jan, 07	
								— ▶	3	March, 2007	
BY / 製定者	Sunwiun. Hu	SUPER / 原圖編號	C.T. Lee	TLL.SH / 共頁	9	PAGE/ 頁	1	SH nr.	— ▶	4	
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CERAMIC ANTENNA (CIRCULAR POLARIZATION PIN FEED TYPE) FOR GLOBAL POSITIONING SYSTEMS (GPS) (1.575G Hz)

Product Specification¹

QUICK REFERENCE DATA

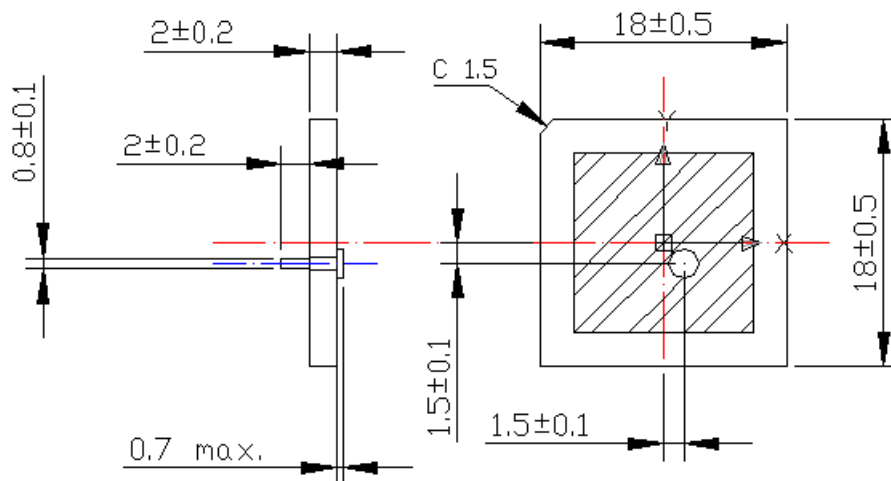
Central Frequency	1.575 GHz*
Bandwidth	5 MHz**
Gain	1 dBi Max
VSWR	2.0 max
Polarization	Right Hand Circular Polarization
Axis Ratio	less than 3dB for the centre frequency
Impedance	50Ω
Operating Temperature	-40~125 °C



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

** Based on ground size 50 * 50 mm size

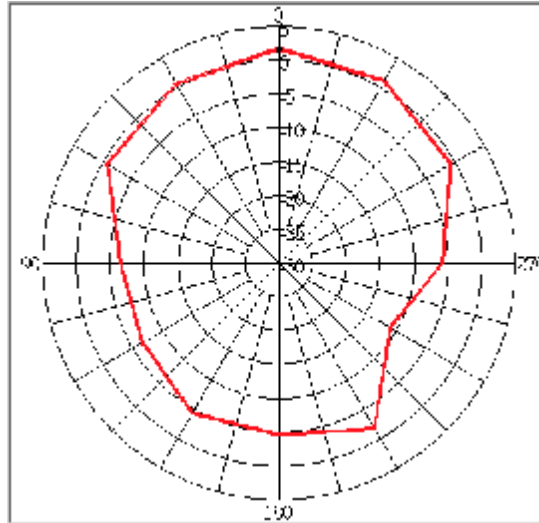
1. MECHANICAL DATA (18 * 18 * 2 mm)



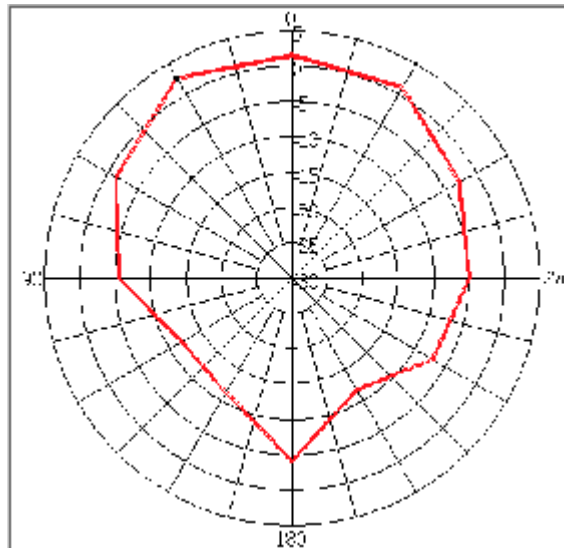
¹ All the technical data and information contained herein are subject to change without prior notice

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Radiation Pattern (based on 50x50 mm ground plane)



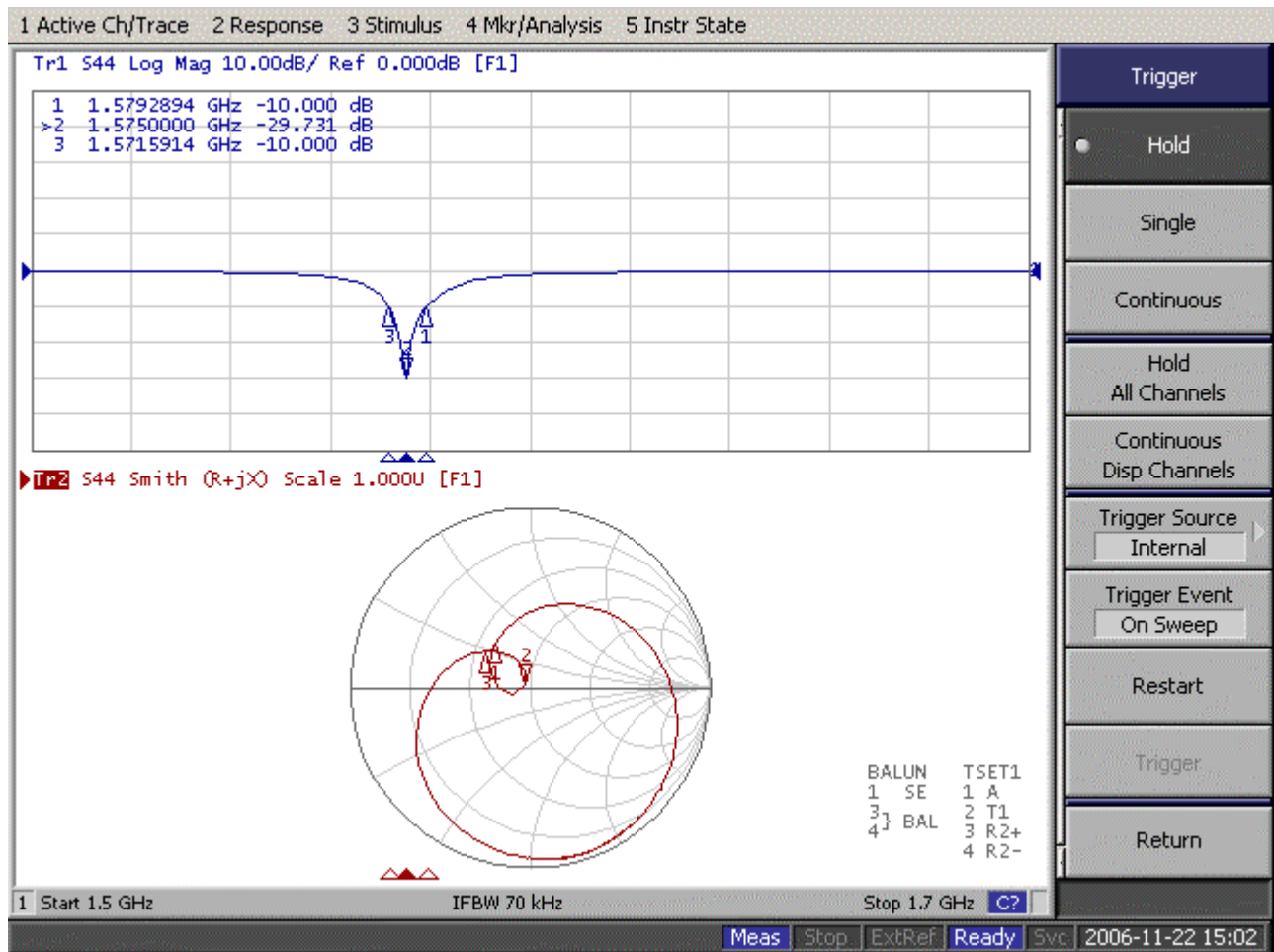
Circular gain 2D x-z plane pattern



Circular gain 2D y-z plane pattern

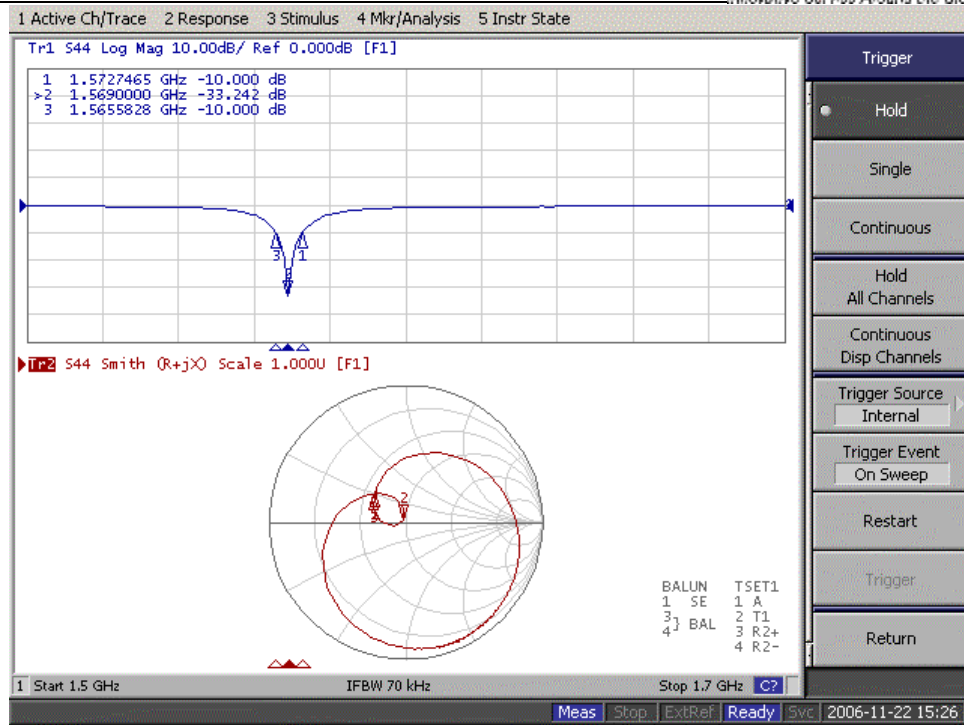
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Return Loss and Smith Chart (with 50 * 50 mm square Ground Plan)

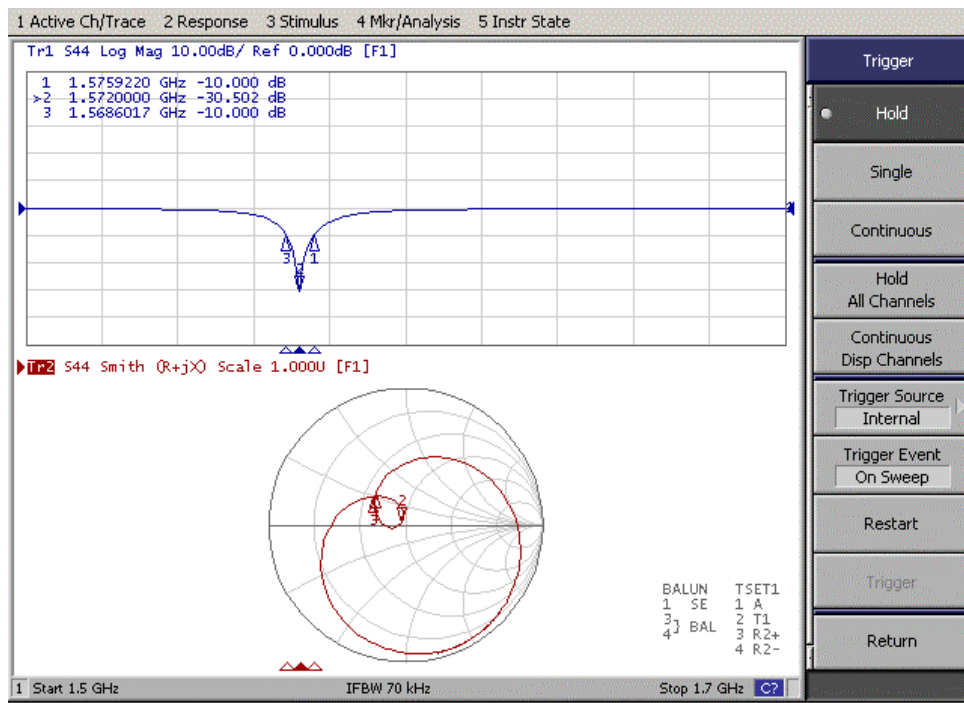


No tape

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With tape and Liner



With tape but without Liner

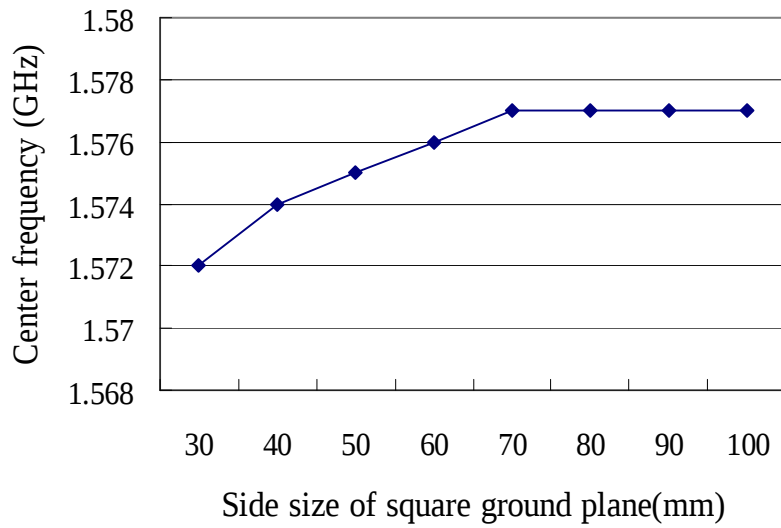
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Ceramic Antenna
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Center frequency v.s Ground plane (For example: 1.575GHz)



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3.ORDERING INFORMATION:

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

CAN 43 13 4 24 02 158 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

02 = Pin Feed Type 2

A. Working Frequency

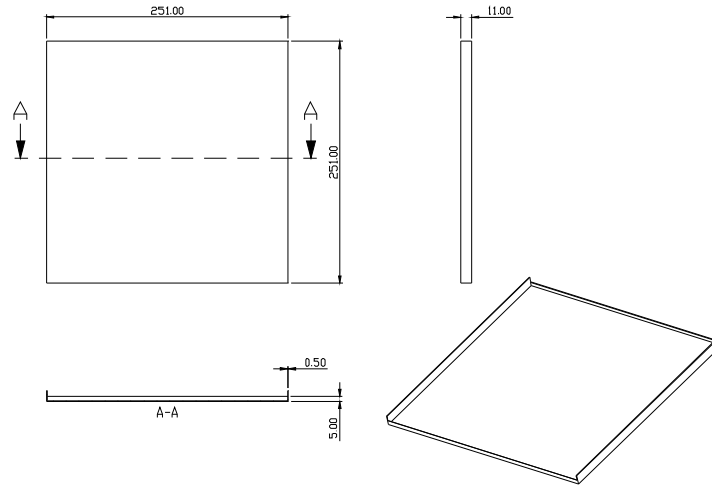
158= 1.575 GHz

Packing Type Code

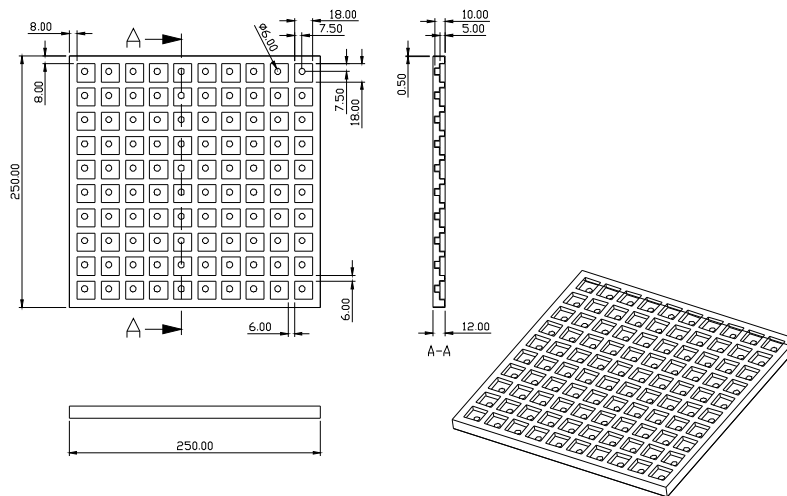
1B = bulk packing

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4.Packing Information



Cover Tray



Bottom Tray

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Revision Control:

Revision	Date	Content	Remark
1	Nov. 23, 2006	New Issued	
2	Jan, 2007		
3	March, 2007	Modify the radiation pattern and gain	

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