



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna
ANT2525B00BT1575S
GPS

SMD 25*25*4mm



FEATURES

- High radiation efficiency
- Reflow process compatible
- RoHS compliant

APPLICATIONS

- Navigation device
- Telematics box
- Fleet management

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

PART NUMBER**ANT 2525 B 00B T 1575S**

(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna**(2) SIZE**

2525 = 25 × 25 mm**(3) ANTENNA TYPE**

B = Bulk Antenna**(4) SERIAL NO.**

00B**(5) PACKING STYLE**

T = Tray**(6) WORKING FREQUENCY**

1575 = 1.575GHz**PHYCOMP CTC**

CAN43934250B1581B**I2NC**

43934250B158

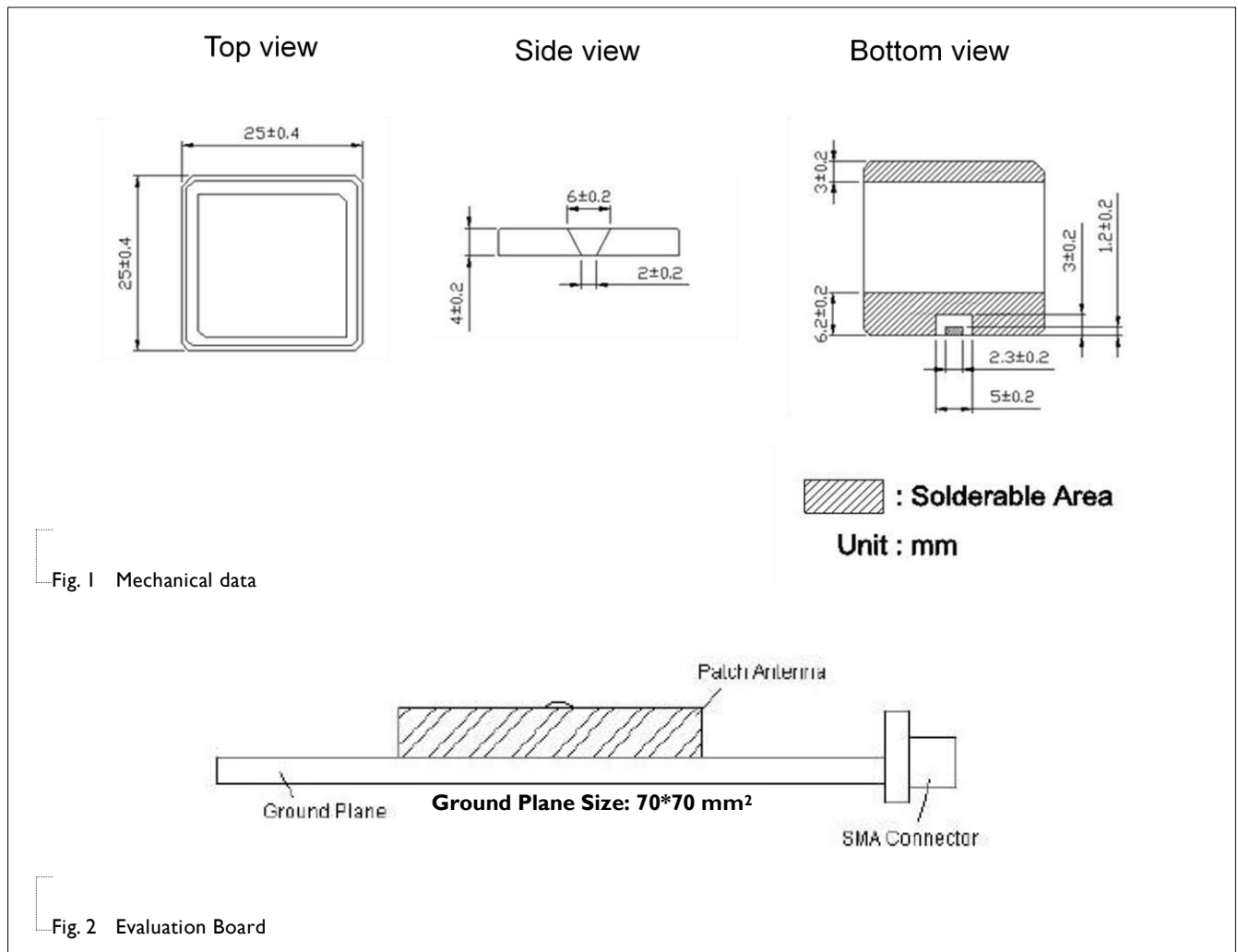
SPECIFICATION

Table I

DESCRIPTION	VALUE
Centre Frequency	1580 ± 3 MHz
Bandwidth	20 MHz (Typ.)
Gain	5.5 dBic (Typ.)
VSWR	1.5 Max
Polarization	Right Hand Circular Polarization
Axis Ratio	≤3dB
Beam Width	> 120 degrees
Impedance	50Ω
Operating Temperature	-40~105 °C

NOTE

1. Based on 70* 70 mm² square ground plane.
2. Central frequency will be offset to working frequency while changes of customer's housing and ground plane.
3. Please contact local sales if you need customized design to gain optimum antenna performance.



ELECTRICAL PERFORMANCES

Trc1 **S11** dB Mag 10 dB / Ref -10 dB Calint 1 of 1 (Max)
 Trc2 **S11** Smith Ref1 U Calint
 Mem3[Trc1] **S11** dB Mag 10 dB / Ref -10 dB Invisible
 Mem4[Trc2] **S11** Smith Ref1 U Invisible

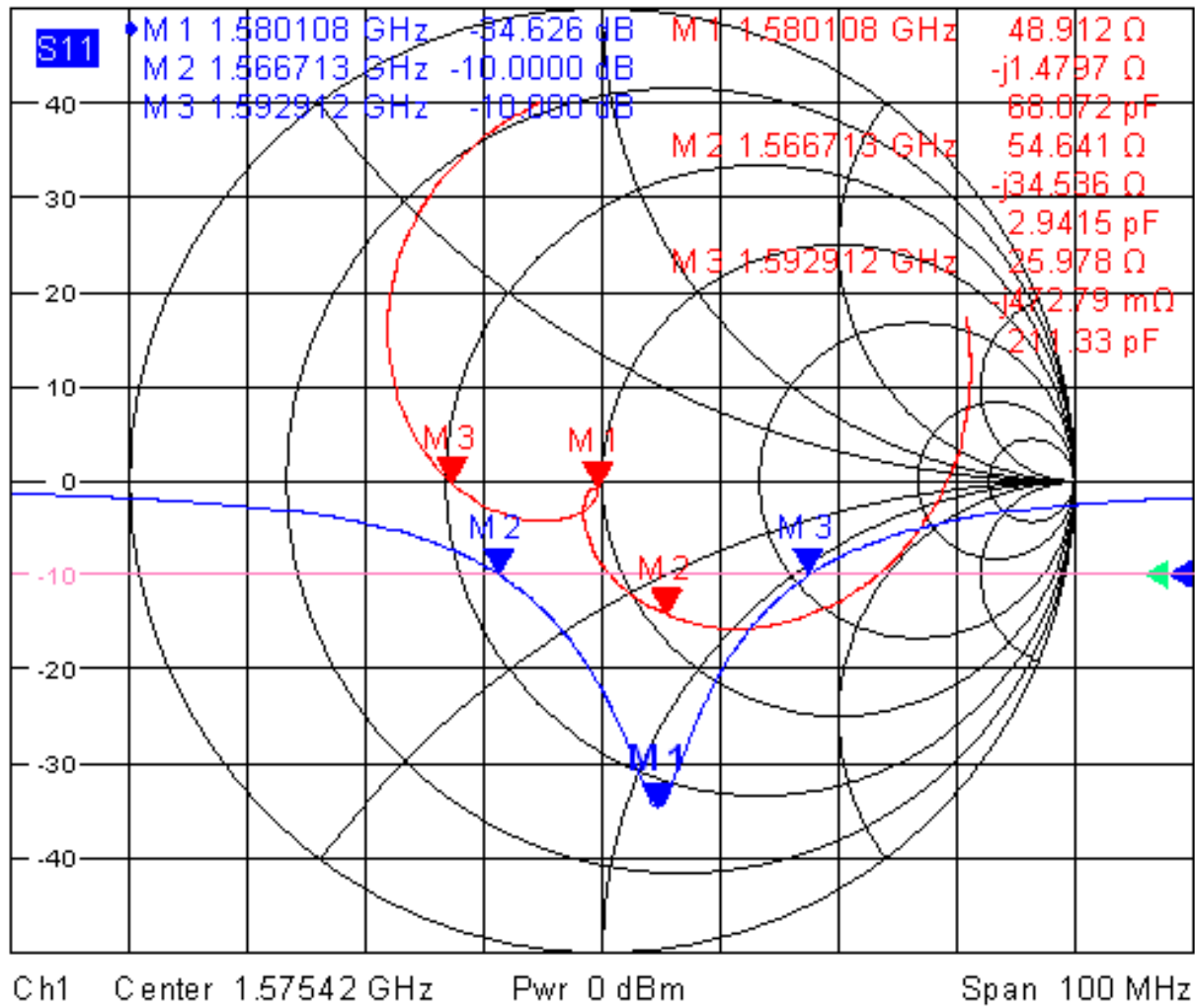
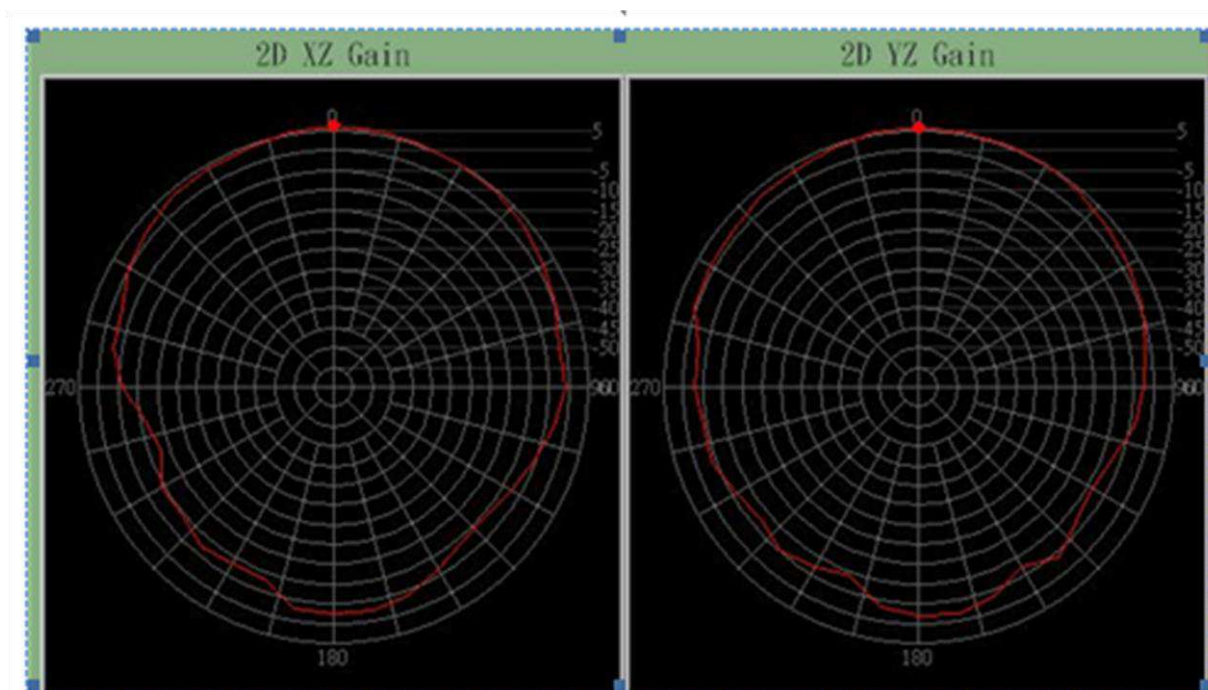


Fig. 3 Return loss



2D x-z plane pattern 2D y-z plane pattern

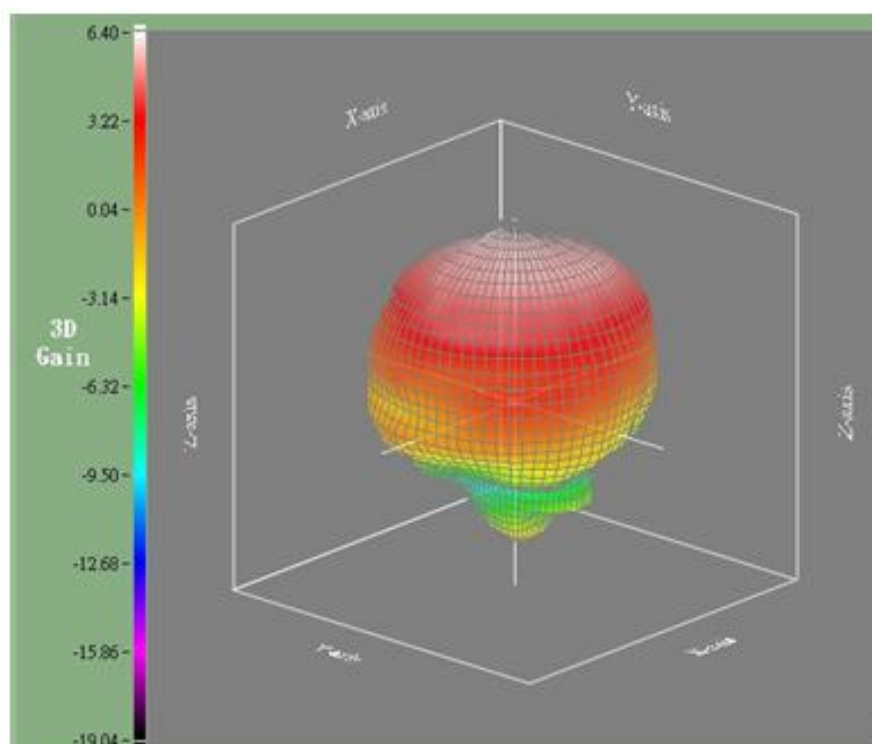


Fig. 4 Radiation Pattern (Frequency = 1580MHz)

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Oct. 07, 2015	-	- New datasheet for Patch antenna, SMD Feed size 25*25*4 mm