

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

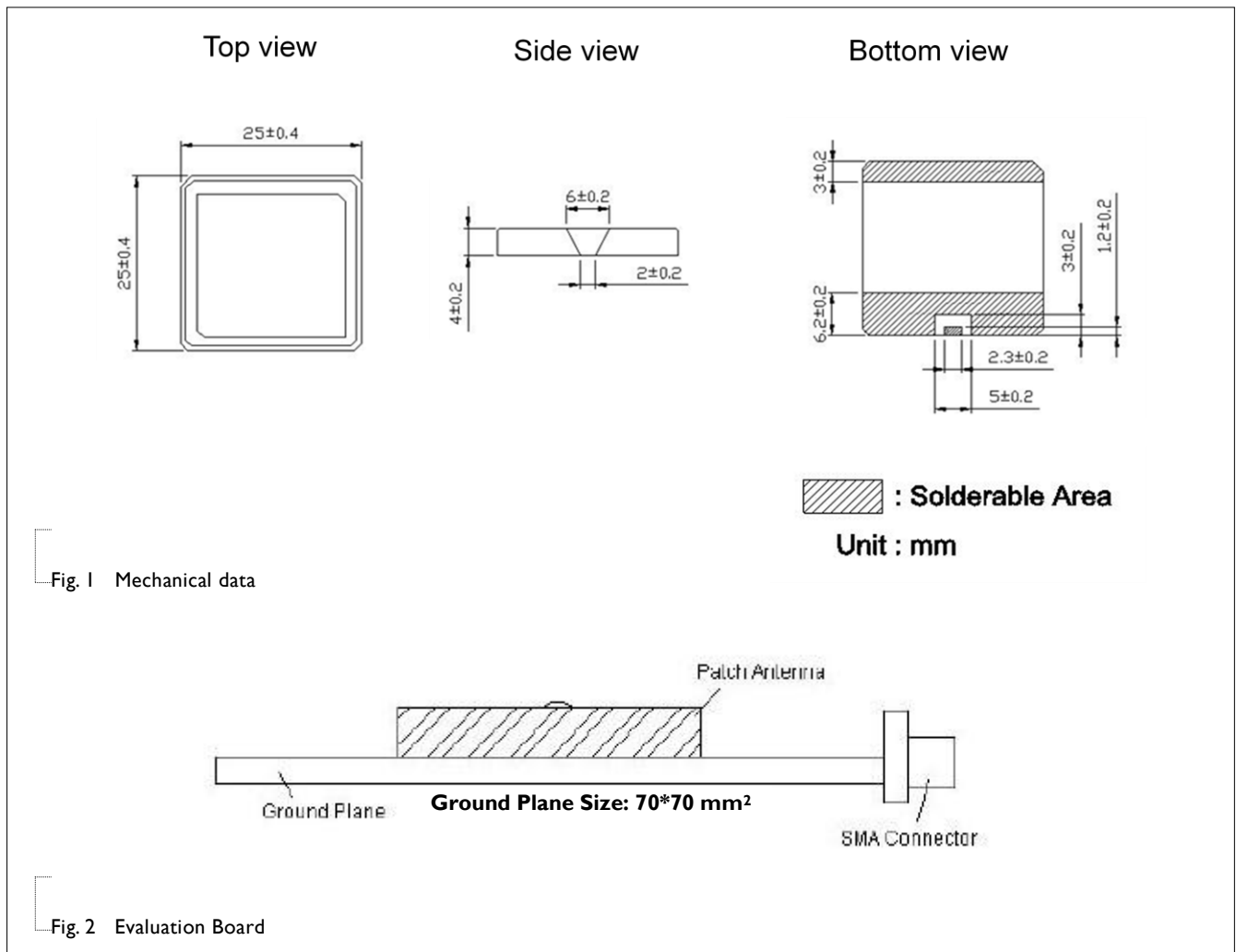
SPECIFICATION

Table 1

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

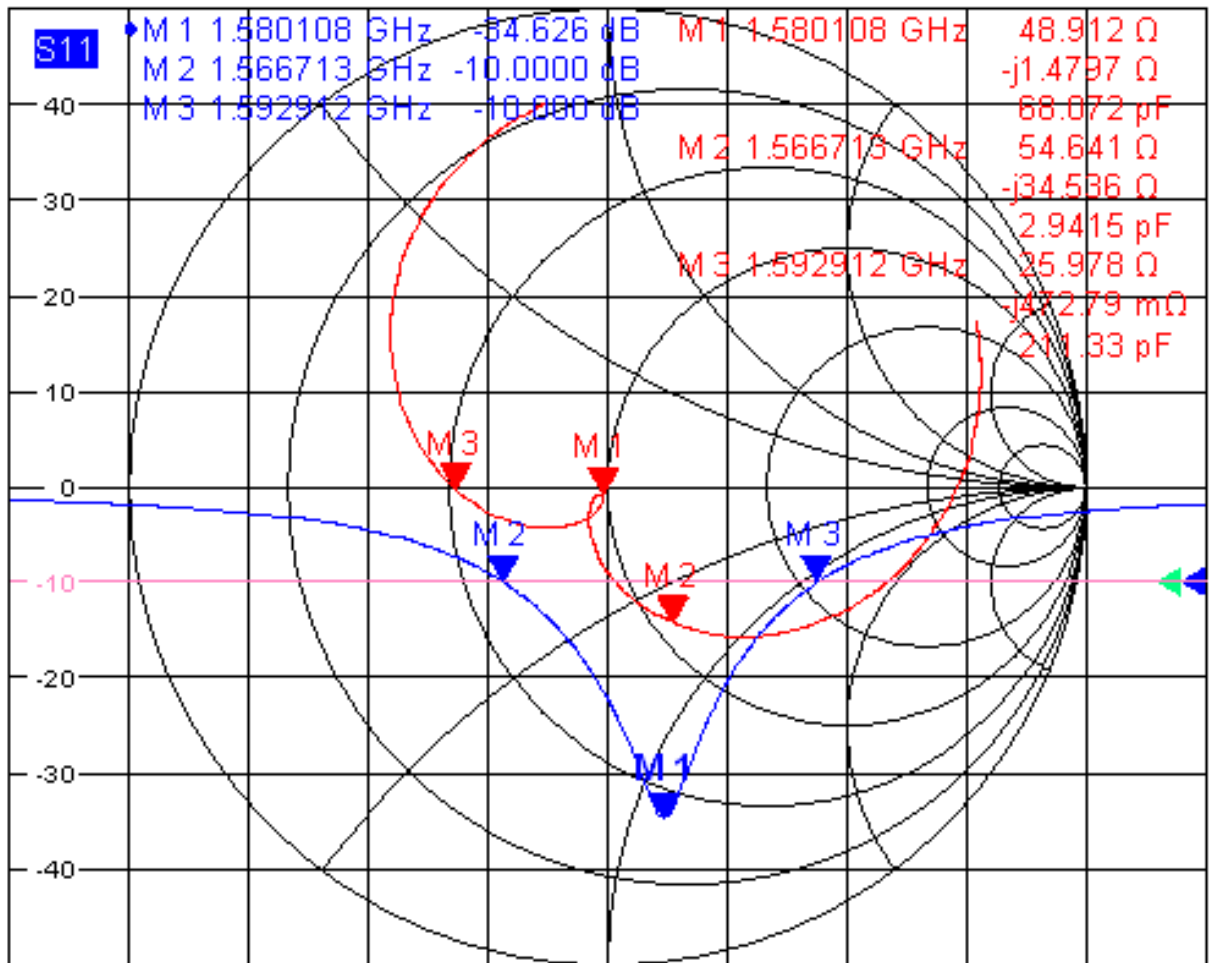
NOTE

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.



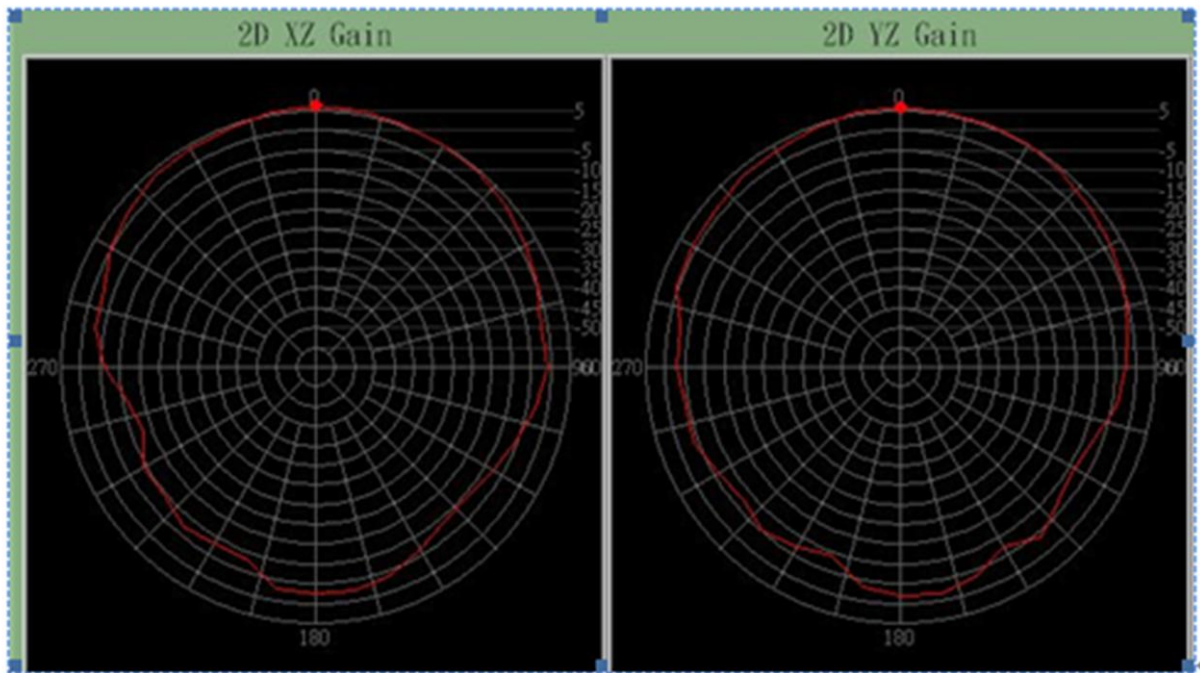
ELECTRICAL PERFORMANCES

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



Ch1 Center 1.57542 GHz Pwr 0 dBm Span 100 MHz

Fig.3 Return loss



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

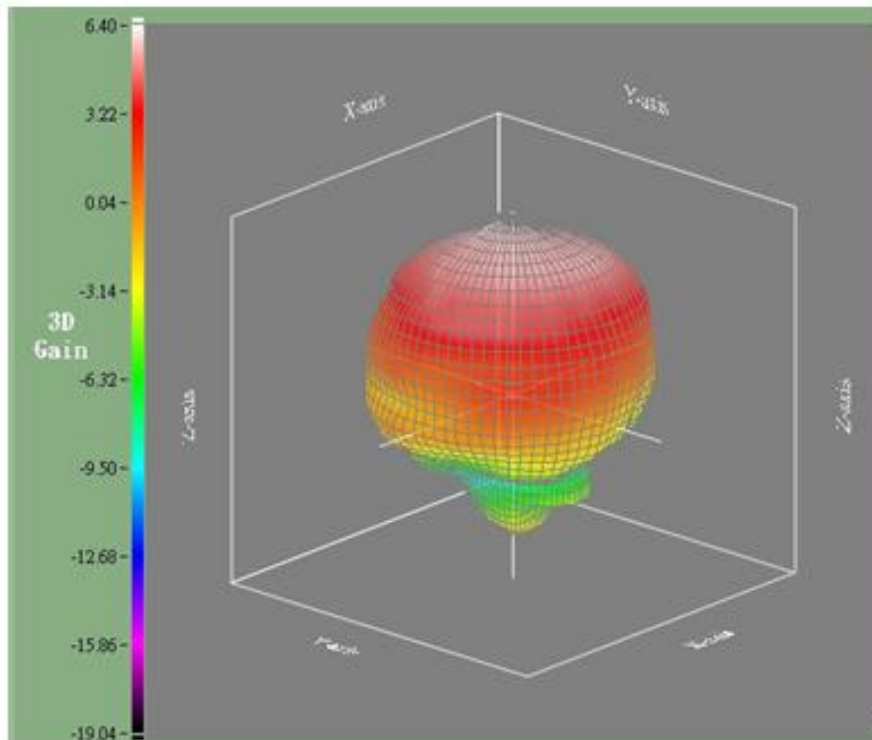


Fig. 4 Radiation Pattern (Frequency = 1580MHz)

REVISION HISTORY

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