

DATA SHEET

WIRELESS COMPONENTS

Ceramic Patch Antenna

ANT1212B00BT1575S

GPS

SMD 12 × 12 × 4 mm



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 I212 B 00B T I575S
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna

(2) SIZE

I212 = 12 × 12 mm

(3) ANTENNA TYPE

B = Bulk Antenna

(4) SERIAL NO.

00B

(5) PACKING STYLE

T = Tray

(6) WORKING FREQUENCY

I575= 1.575 GHz

PHYCOMP CTC

CAN43934220BI58IB

I2NC

43934220BI58

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Centre Frequency	1580 ± 3MHz
Bandwidth	6 MHz (Typ.)
Gain	-1.0 dBic (Typ.)
VSWR	1.5 Max.
Polarization	Right Hand Circular Polarization
Axis Ratio	≅ 3 dB
Impedance	50Ω
Operating Temperature	-40~105 °C

NOTE

1. Based on 30×30 mm² square ground plane.
2. Centre 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.

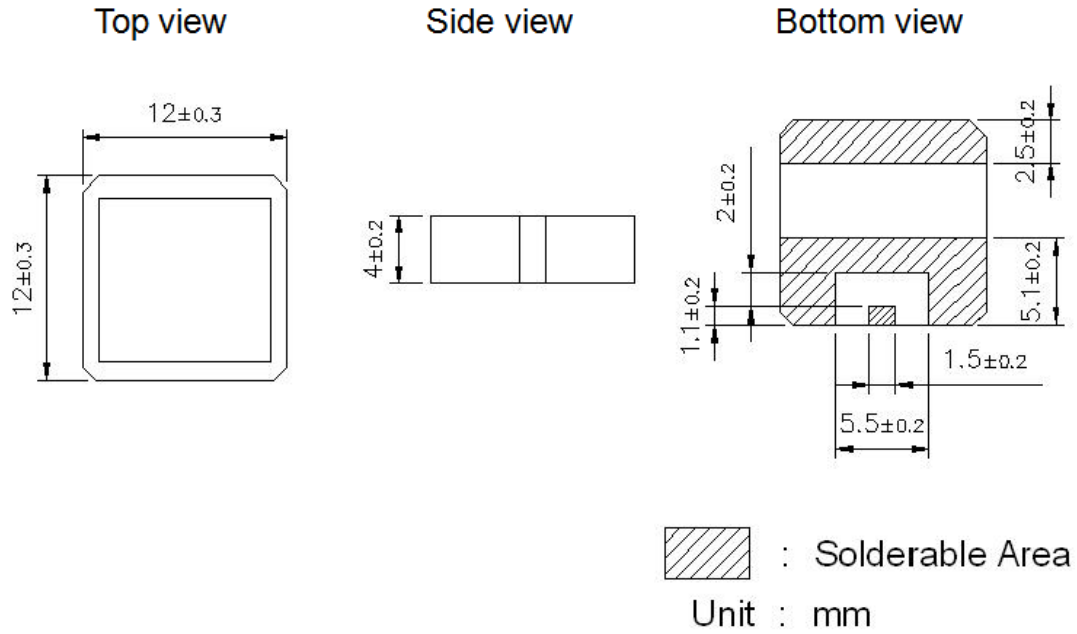


Fig. 1 Mechanical Data

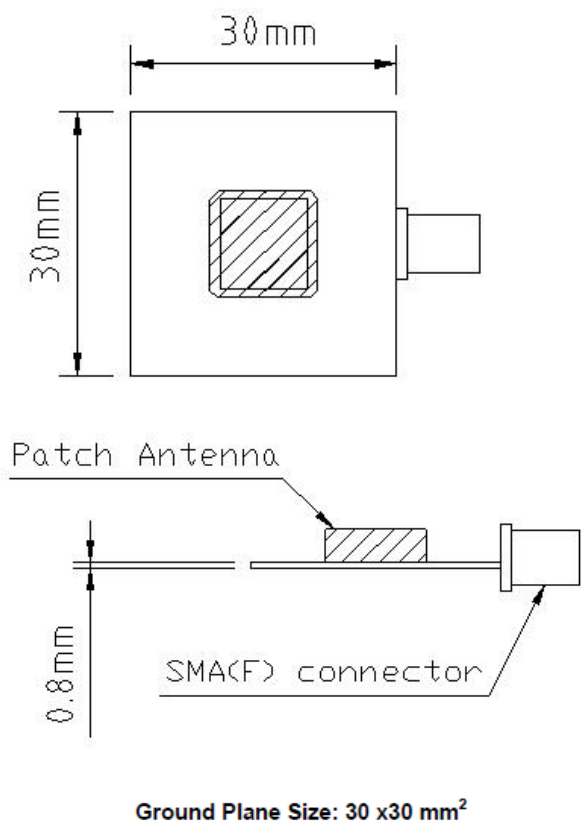
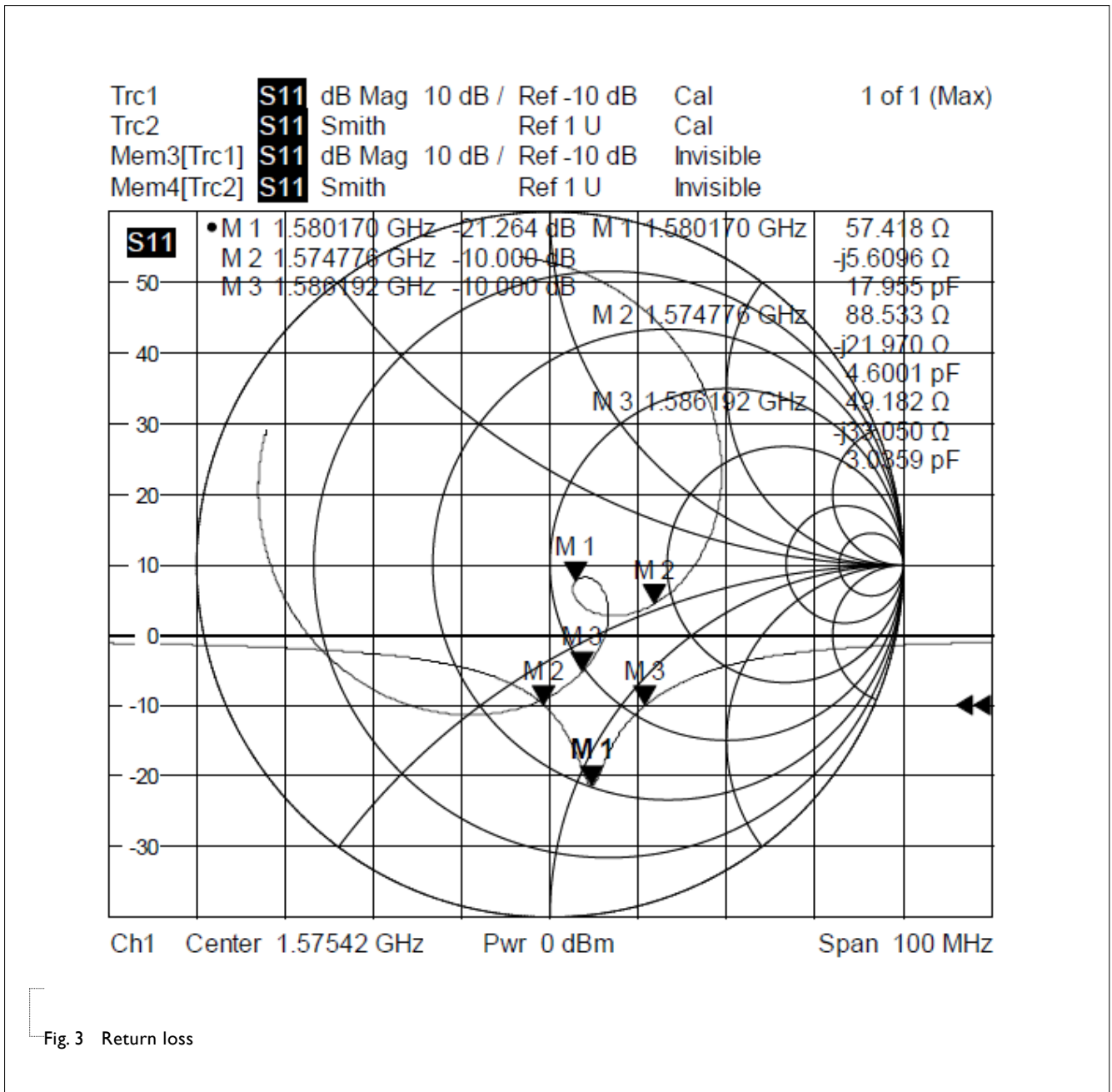
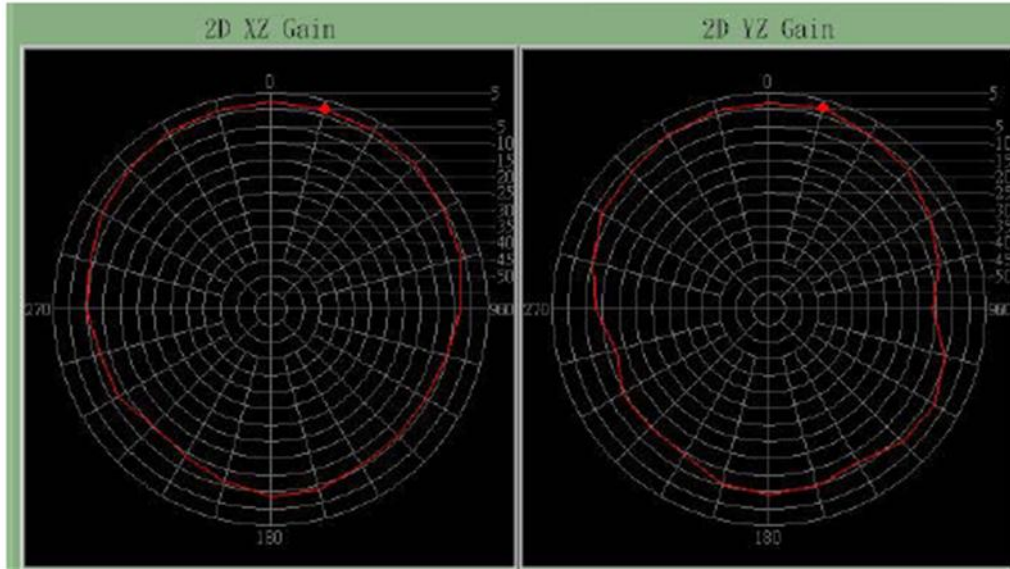


Fig. 2 Evaluation Board

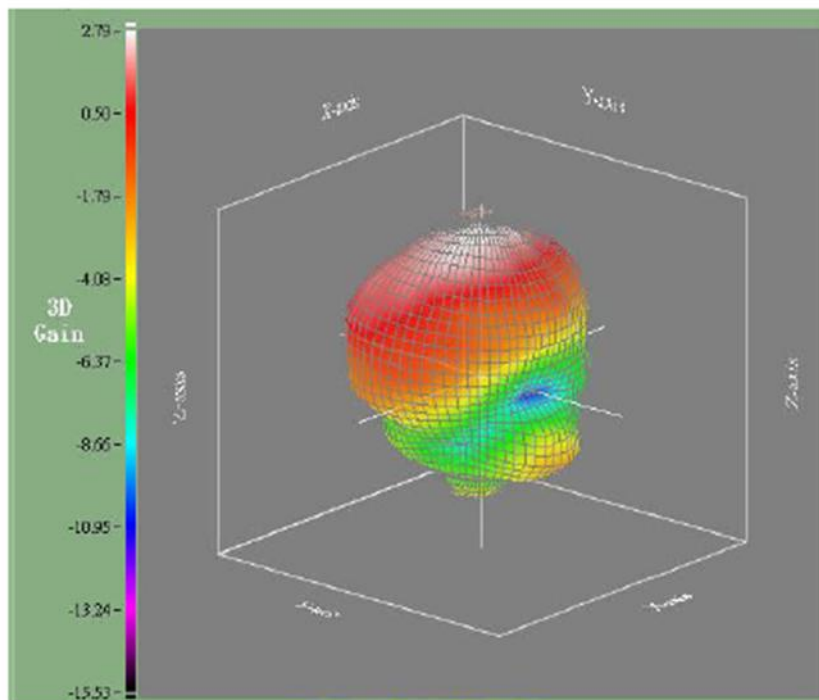
ELECTRICAL PERFORMANCES





2D x-z plane pattern

2D y-z plane pattern



3D radiation pattern

Fig. 4 Radiation Pattern (Frequency = 1580MHz)

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jan. 15, 2016	-	- New data sheet for Patch antenna, SMD Feed size 12×12×4 mm