

DATA SHEET

WIRELESS COMPONENTS

Active Antenna

ANT1515JB27B1575A

GPS

SMD 15X15X6.5 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 I515 J B27 B I575A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

ANT = Antenna products

(2) SIZE

I515 = 15 × 15 mm

(3) ANTENNA TYPE

J = Integrated Antenna

(4) SERIAL NO.

B27

(5) PACKING STYLE

B = Plastic Bag

(6) WORKING FREQUENCY

I575 = 1.575 GHz

PHYCOMP CTC

CAN4313323271581B

I2NC

431332327158

SPECIFICATION**Ceramic Patch Anyenna**

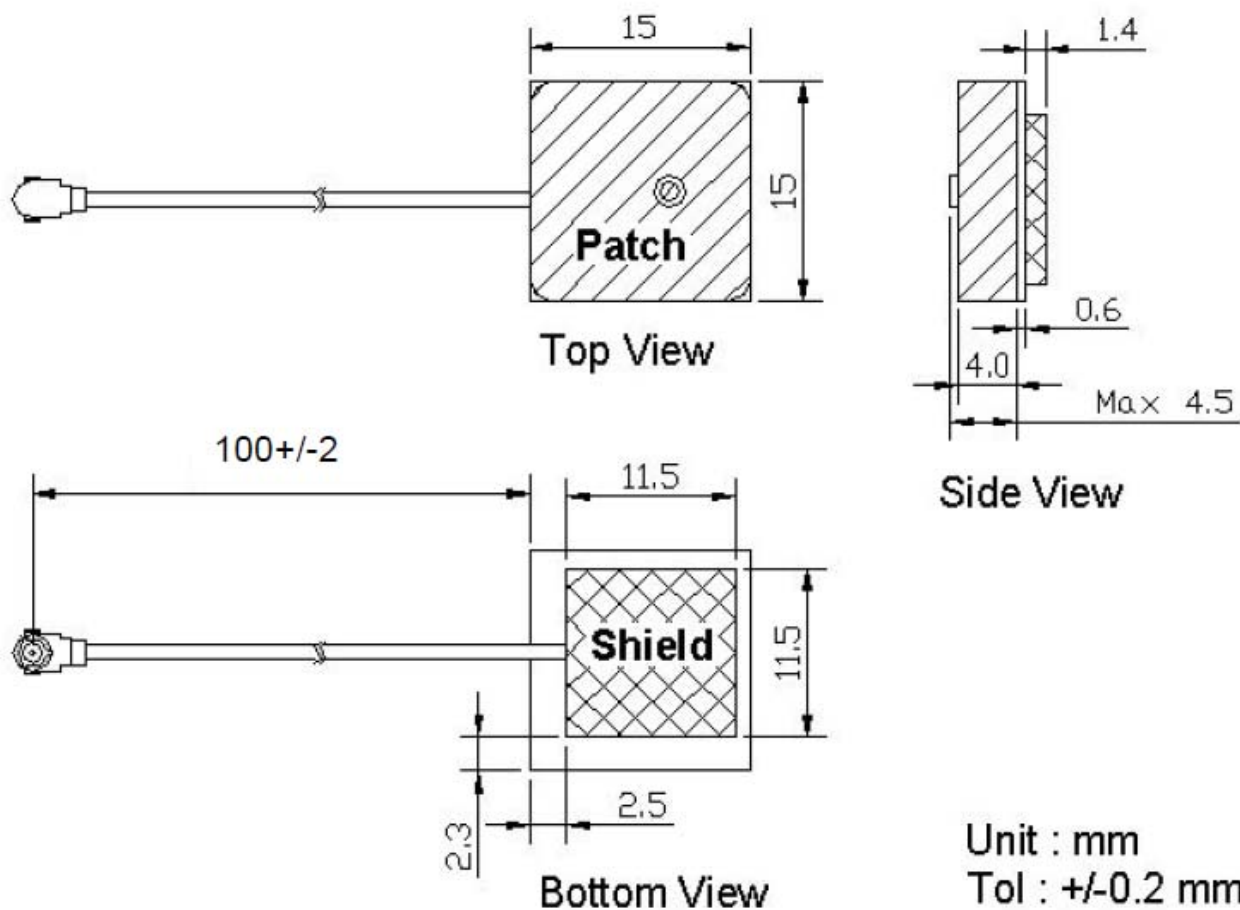
DESCRIPTION	VALUE
Dimension	15×15×6.5 mm ³
Centre Frequency	1575± 2 MHz
Bandwidth	19.0 MHz (Typ.)
Gain	-3.5 dBic (Typ.)
VSWR	2.0 Max.
Polarization	Right Hand Circular Polarization

LNA

DESCRIPTION	VALUE
Centre Frequency	1575 ± 1.023 MHz
Gain	20.5 ± 1 dB
Output VSWR	2.0 (Max.)
Noise Figure	1.85 dB (Typ.)
SAW Filter (Out of Band Attenuation)	50dB min 0.15 ~ 960MHz
	23dB min 1475~1535MHz
	30dB min 1627~1710MHz
	21dB min 1750~1800MHz
	22dB min 1850~1990MHz
Supply Voltage	3.0 ± 0.3V
Current Consumption	3.6 mA (Typ.)
Output Impedance	50Ω
Operating Temperature	-30 ~ +85 °C
Humidity	< 95%
Storage Temperature	-40 ~ +125 °C

NOTE

1. Based on 15×15 mm² ground plane (with customer's housing)
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.

MECHANICAL DATA


Length	15.0 +/- 0.2 mm
Width	15.0 +/- 0.2 mm
Thickness	6.5 ~ 6.8 mm
Cable	Diameter= 1.13 mm ; Length= 100 mm +/- 2 mm ; Black
Connector	I-PEX Connector 20278-112R-13
Shielding Case	11.5 × 11.5 × 1.4 mm ³

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
----------	------	---------------------	-------------

Version 0	Apr. 11, 2013	-	- New data sheet for Active antenna, SMD Feed size 15×15×6.5 mm
-----------	---------------	---	---