

**Description: 50x50x15 GNSS+L2L5 Active Antenna**

**PART NUMBER: ANT4050JB01BGN25A**

**Features:**

- Size: 50x50x15 mm<sup>3</sup>
- High radiation efficiency
- Low noise figure
- RoHS compliant

**Applications:**

- Navigation device
- Telematics box
- Fleet management

**SPECIFICATIONS**

**Ceramic Patch Antenna**

DESCRIPTION	VALUE
Dimension	50x50x12 mm <sup>3</sup>
Centre Frequency	L2 Band : 1227.6 MHz L5 Band : 1176.45 MHz BD : 1561 MHz GPS : 1575.42 MHz GLONASS : 1602 MHz
Peak Gain	L2 Band : 0.57 dBic L5 Band : 3.00 dBic BD : 2.96 dBic GPS : 3.69 dBic GLONASS : 1.71 dBic
Axis Ratio	L2 Band ≤ 5.0 dB L5 Band ≤ 5.0 dB BD ≤ 3.0 dB GPS ≤ 3.0 dB GLONASS ≤ 3.0 dB
VSWR	3.0 Max.
Polarization	Right Hand Circular Polarization

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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**SPECIFICATIONS**

LNA	DESCRIPTION	VALUE
	Centre Frequency	L2 Band : 1227.6 MHz L5 Band : 1176.45 MHz BD : 1561 MHz GPS : 1575.42 MHz GLONASS : 1602 MHz
	Gain	L2 Band : 38 ± 3 dB L5 Band : 38 ± 3 dB BD : 38 ± 3 dB GPS : 38 ± 3 dB GLONASS : 38 ± 3 dB
	SAW Filter (Out of Band Attenuation)	BD / GPS / GLONASS : 40dB min 1.0 ~ 960 MHz 25dB min 1427~1463 MHz 25dB min 1710~1785 MHz 25dB min 1850~1980 MHz 40dB min 2401~2483 MHz
	SAW Filter (Out of Band Attenuation)	L2 / L5 : 15dB min 925 ~ 960 MHz 15dB min 1427~1463 MHz 20dB min 1626~1660 MHz 20dB min 1695~1785 MHz 40dB min 1850~2025 MHz
	Output VSWR	2.0 (Max.)
	Noise Figure	< 1.5 dB
	Supply Voltage	3.0 ~ 3.6 V
	Current Consumption	15 mA (Max.)
	Output Impedance	50Ω
	Operating Temperature	-30 ~ +85 °C
	Humidity	< 95%
	Storage Temperature	-40 ~ +90 °C

**NOTE**

1. Based on 50×50 mm<sup>2</sup> ground plane (free space)
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.

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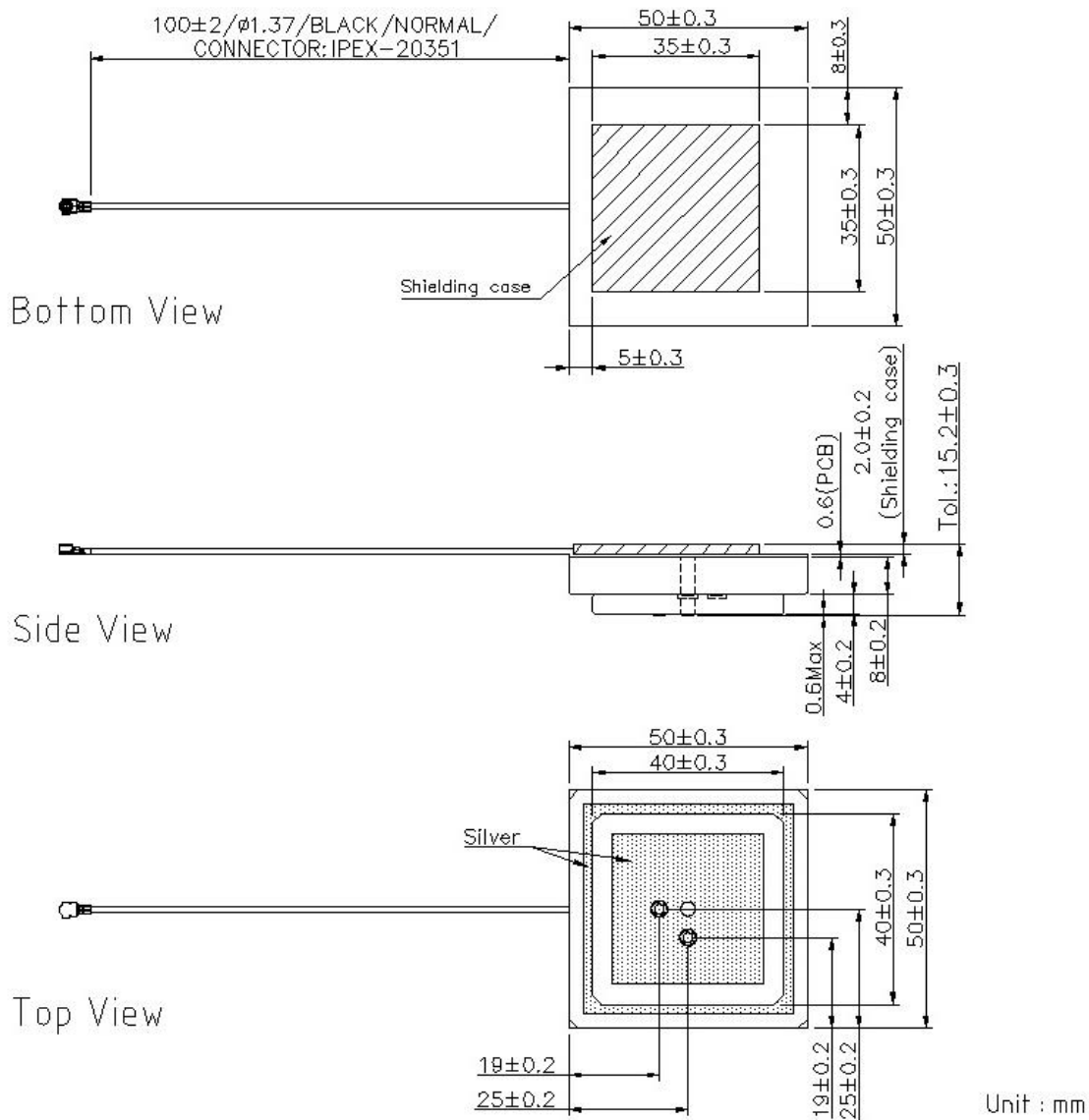
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**MECHANICAL DRAWING**



Length	$50.0 \pm 0.3$ mm
Width	$50.0 \pm 0.3$ mm
Thickness	$15.2 \pm 0.3$ mm
Cable	Diameter = 1.37 mm ; Length = 100 mm $\pm$ 2 mm ; Black
Connector	I-PEX Connector 20351

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## REVISION HISTORY

Revision	Date	Description
Version 1	Feb. 9, 2021	- New issue for Pulse version

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