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Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 25x25x12 GNSS+L5 Active Antenna

PART NUMBER: ANT1825JB01BGNL5A

Features:

- Size: 25x25x12 mm^3
- High radiation efficiency
- Low noise figure
- RoHS compliant

Applications:

- Navigation device
- Telematics box
- Fleet management

SPECIFICATIONS

Ceramic Patch Antenna

DESCRIPTION	VALUE
Dimension	25x25x9.0 mm^3
Centre Frequency	L5 Band：1176.45 MHz BD：1561 MHz GPS：1575.42 MHz GLONASS：1602 MHz
Bandwidth	L5 Band：1176.45 ± 10MHz BD：1561 ± 2MHz GPS：1575.42 ± 2MHz GLONASS：1602 ± 4MHz
Peak Gain	L5 Band： 2.36 dBic BD： 1.26 dBic GPS： 1.81 dBic GLONASS： 1.63 dBic
VSWR	2.0 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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For more information:

RoHS COMPLIANT

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SPECIFICATIONS

LNA

DESCRIPTION		VALUE
Centre Frequency		L5 Band：1176.45 MHz BD：1561 MHz GPS：1575.42 MHz GLONASS：1602 MHz
Gain		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)	L5：	20dB min 1.0 ~ 960 MHz 25dB min 1427~1463 MHz 30dB min 1710~1785 MHz 30dB min 1850~1980 MHz 40dB min 2401~2483 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 ℃
Humidity		< 95%
Storage Temperature		-40 ~ +90 ℃

NOTE

1. Based on 50×50 mm² 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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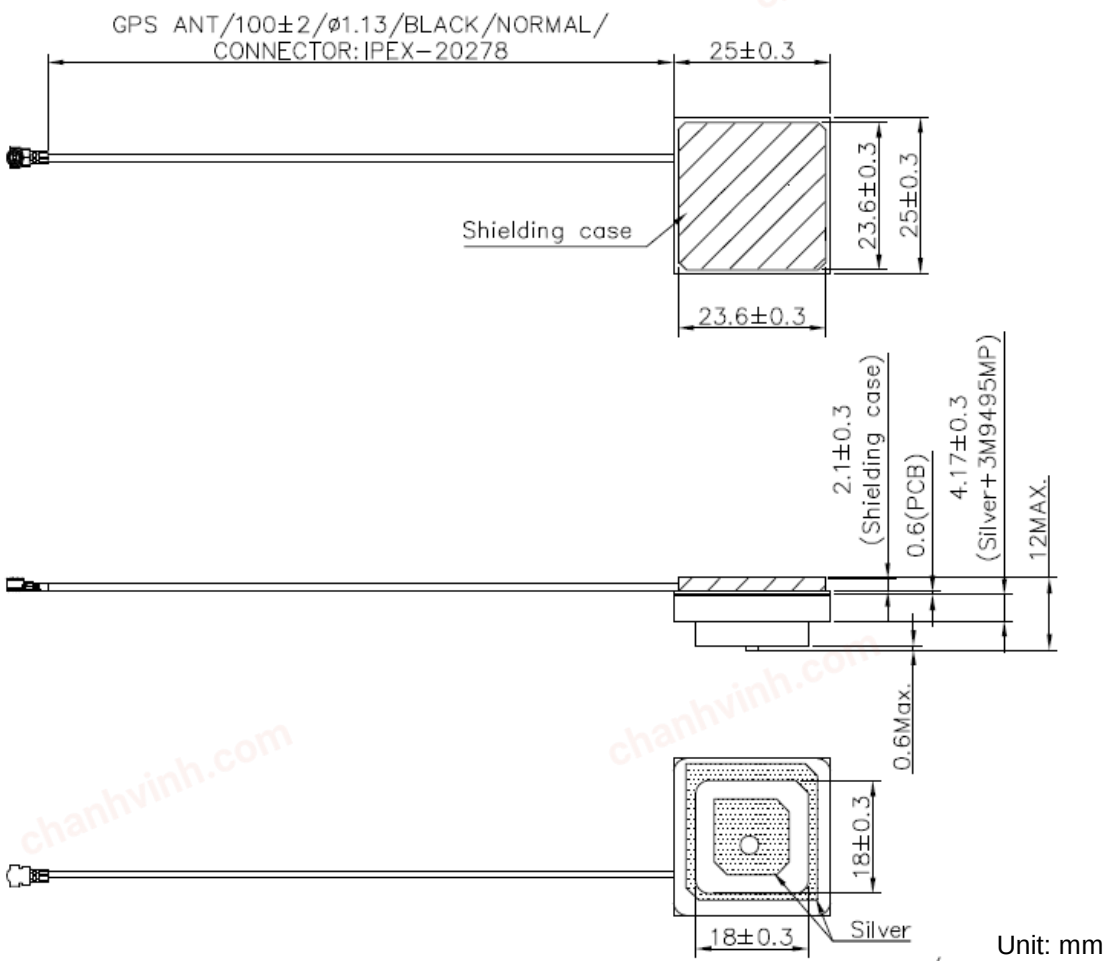
MECHANICAL DRAWING



Unit: mm

Length	25.0 ± 0.3 mm
Width	25.0 ± 0.3 mm
Thickness	12 mm (MAX.)
Cable	Diameter = 1.13 mm ; Length = 100 mm ± 2 mm ; Black
Connector	I-PEX Connector 20278

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REVISION HISTORY

Revision	Date	Description
Version 1	Feb. 8, 2021	- New issue for Pulse version.

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