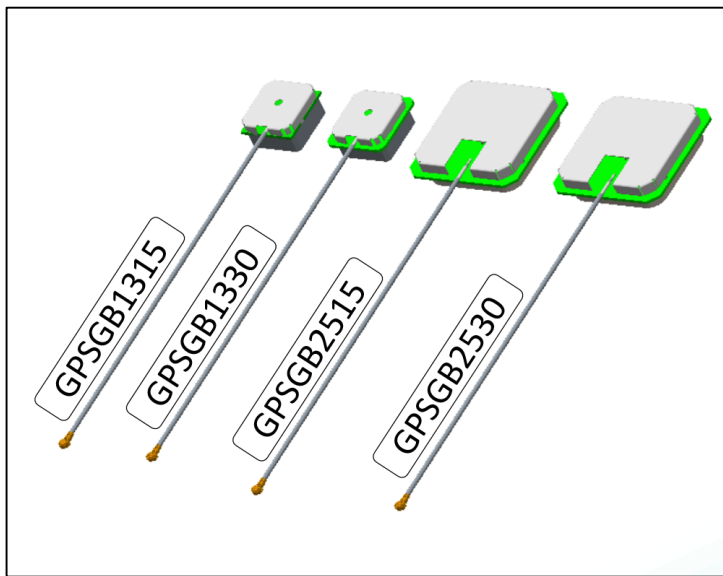
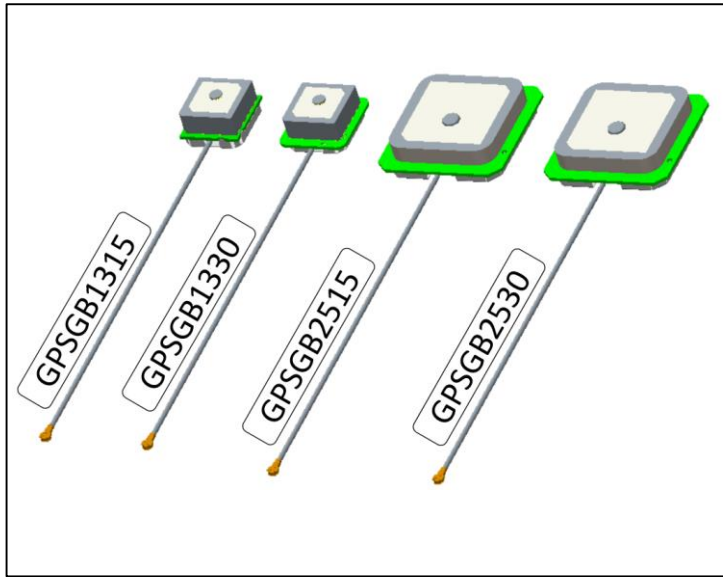


Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

Series: Internal Active GPS



Features:

- Satellite navigation active antenna
- Ultra low noise amplifiers
- High Gain (30dB) and Low Gain (15dB) LNA variants available
- High rejection filters to suppress out of band interference

Applications:

- GPS, GLONASS, BeiDou, Compass, Galileo satellite navigation system
- Asset tracking, Fleet management, IoT, M2M

All dimensions are in mm / inches

Issue: 1626

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For more information:

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
3611 NE 112th Ave
Vancouver, WA 98682
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

Series: Internal Active GPS

This document covers all product variants of the following product family:

Projects	Ceramic Size(mm)	PCB Size (mm)	Thickness (mm)	Cable	Connector
GPSGB1315	13 X 13 X 5	14 X 15 X 0.8	8.15	Φ: 1.13mm L : 100mm	I-PEX MHF 20278-112R-13 compatible with U.FL connector
GPSGB1330		16 X 17 X 0.8	8.15		
GPSGB2515	25 X 25 X 4	30 X 30 X 0.8	8		
GPSGB2530					

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Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

Series: Internal Active GPS

ELECTRICAL SPECIFICATIONS

GPSGB1315

Frequency	1561.098 ± 2.046/ 1575.42 ± 1.023/ 1602.5625 ± 4	MHz
Nominal Impedance	50	Ω
VSWR	2:1	
Gain (Radiating element)	-1	dBic ± 1 dB
Gain (LNA gain)	15	dB ± 2 dB
Polarization	RHCP	
Out of Band Rejection		
698 MHz	>60	dB
960MHz	>50	dB
1710MHz	>55	dB
2170MHz	>55	dB
2400MHz	>55	dB
2700MHz	>55	dB

Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

ELECTRICAL SPECIFICATIONS

GPSGP1330

Frequency	1561.098 ± 2.046/ 1575.42 ± 1.023/ 1602.5625 ± 4	MHz
Nominal Impedance	50	Ω
VSWR	2:1	
Gain (Radiating element)	-1	dBic ± 1 dB
Gain (LNA gain)	30	dB ± 2 dB
Polarization	RHCP	
Out of Band Rejection		
698 MHz	>70	dB
960MHz	>65	dB
1710MHz	>60	dB
2170MHz	>65	dB
2400MHz	>65	dB
2700MHz	>65	dB

Issue: 1626

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Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

Series: Internal Active GPS

ELECTRICAL SPECIFICATIONS

GPSGP2515

Frequency	1561.098 ± 2.046/ 1575.42 ± 1.023/ 1602.5625 ± 4	MHz
Nominal Impedance	50	Ω
VSWR	2:1	
Gain (Radiating element)	1	dBic ± 1 dB
Gain (LNA gain)	15	dB ± 2 dB
Polarization	RHCP	
Out of Band Rejection		
698 MHz	>60	dB
960MHz	>50	dB
1710MHz	>55	dB
2170MHz	>55	dB
2400MHz	>55	dB
2700MHz	>55	dB

Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

Series: Internal Active GPS

ELECTRICAL SPECIFICATIONS

GPSGB2530

Frequency	1561.098 ± 2.046/ 1575.42 ± 1.023/ 1602.5625 ± 4	MHz
Nominal Impedance	50	Ω
VSWR	2:1	
Gain (Radiating element)	1	dBic ± 1 dB
Gain (LNA gain)	30	dB ± 2 dB
Polarization	RHCP	
Out of Band Rejection		
698 MHz	>70	dB
960MHz	>65	dB
1710MHz	>60	dB
2170MHz	>65	dB
2400MHz	>65	dB
2700MHz	>65	dB

Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

ELECTRICAL SPECIFICATIONS

ALL GPSGBXXXX

Noise Figure	<2.4 dB
Operating Voltage	3.3-5 Vdc±0.5V
Current Consumption	<6 mA

Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

MECHANICAL SPECIFICATIONS

Fixing system

Adhesive Tape

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40 ~ +85° C

Series: Internal Active GPS

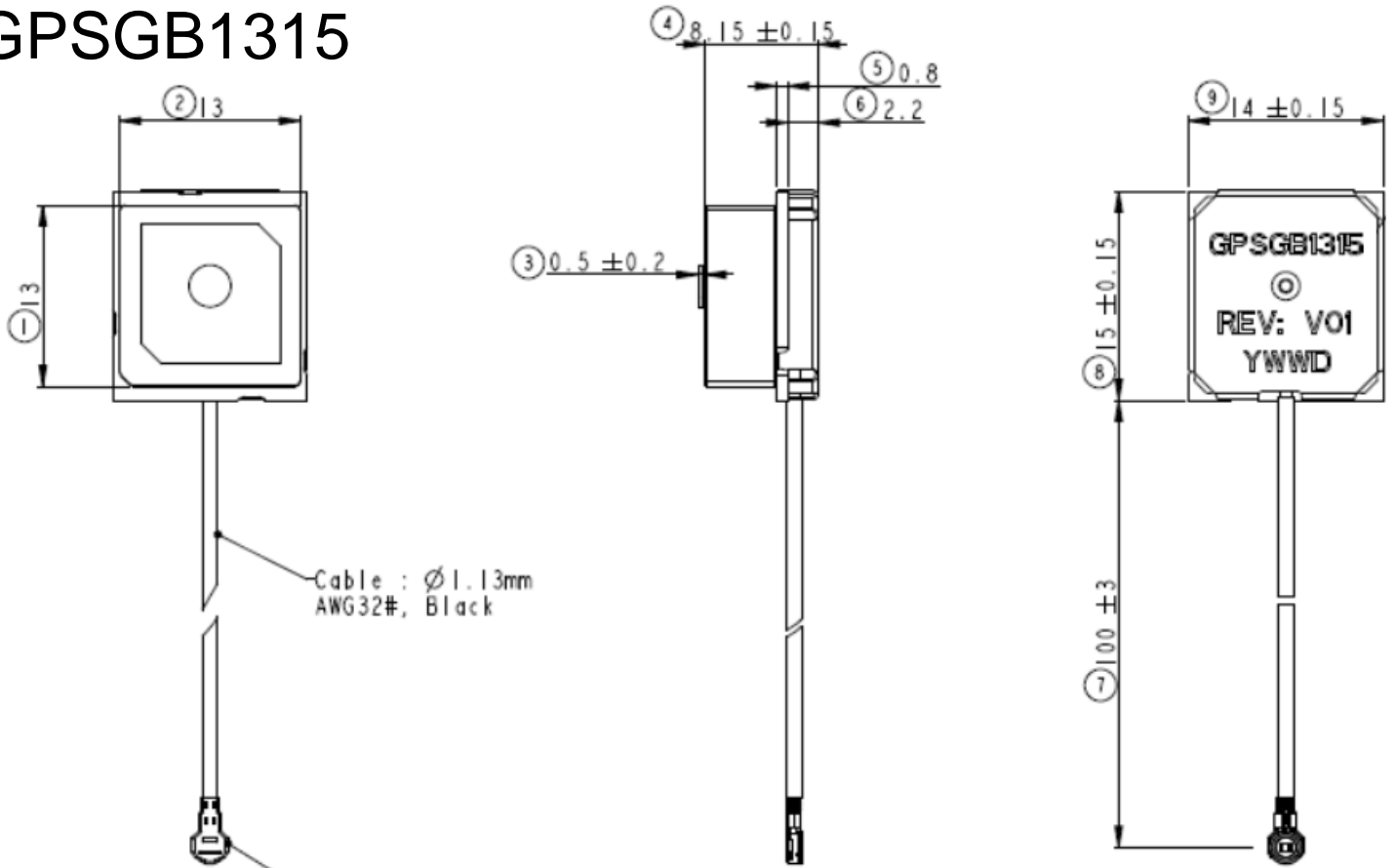
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GPS/GLONASS/BEIDOU/COMPASS/Galileo

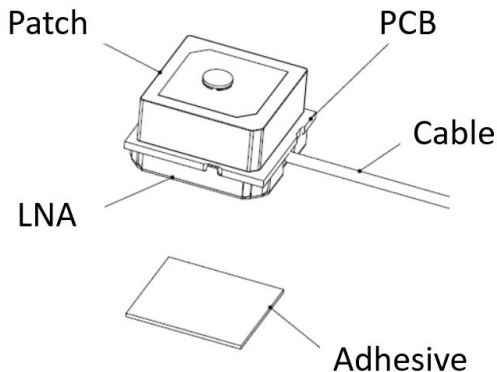
PART NUMBER: GPSGBXXXX

MECHANICAL DRAWING

GPSGB1315



Suggested Receptacle: I-PEX 20279-001E-##
or I-PEX 20441-001E-01



P.S.:

Adhesive tape material: 3M R16 , T=0.4mm

It's not assembled, but included in the sales package

Issue: 1626

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Series: Internal Active GPS

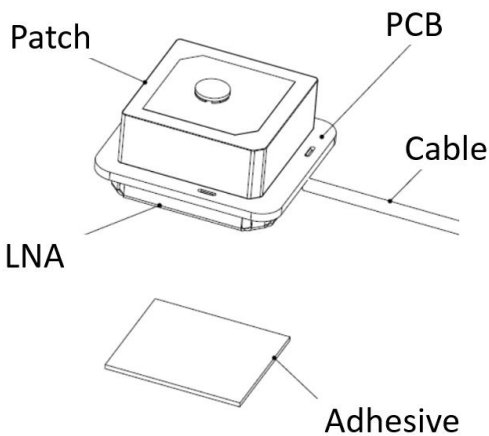
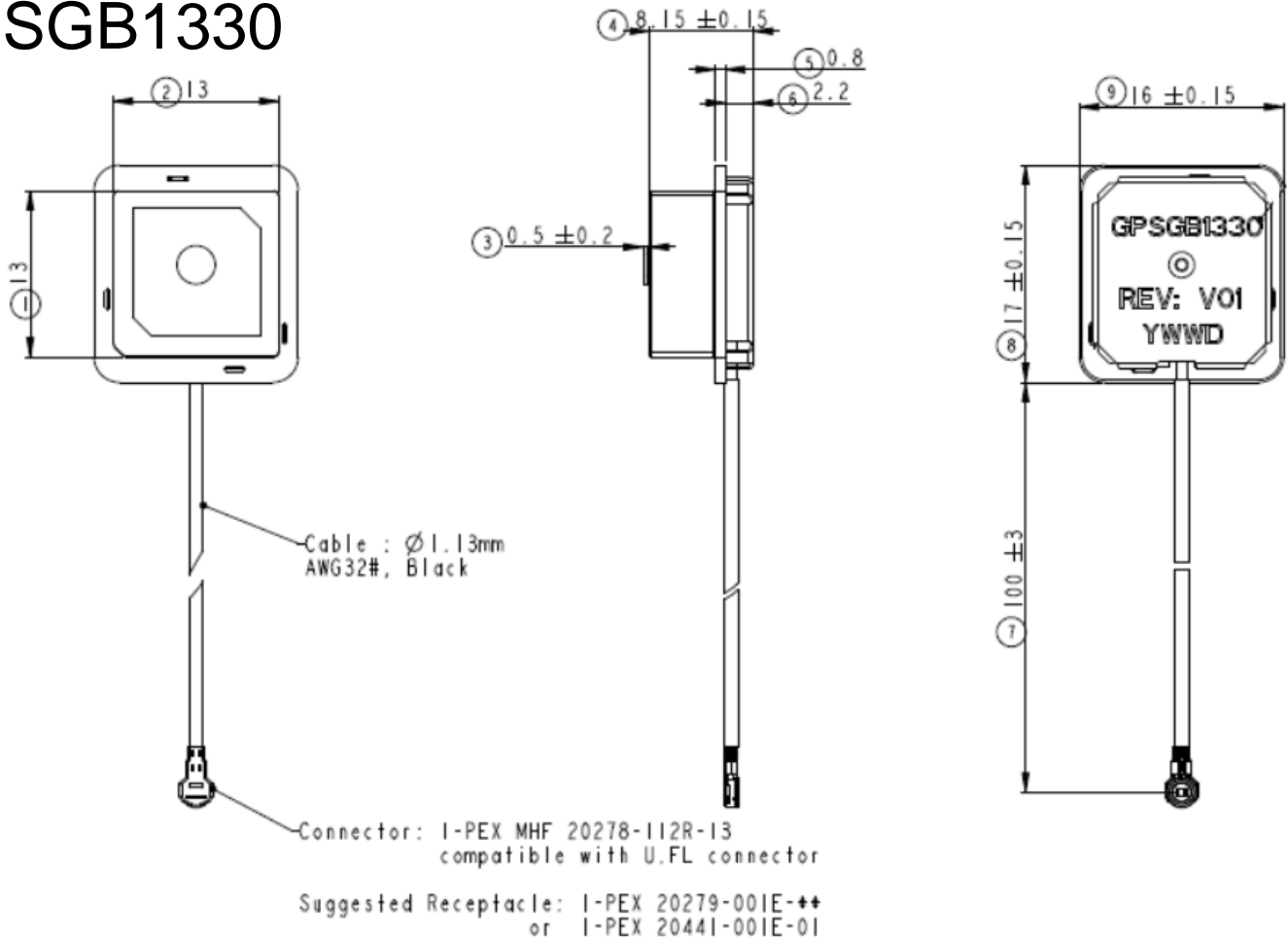
Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

MECHANICAL DRAWING

GPSGB1330



P.S.:

Adhesive tape material: 3M R16 , T=0.4mm

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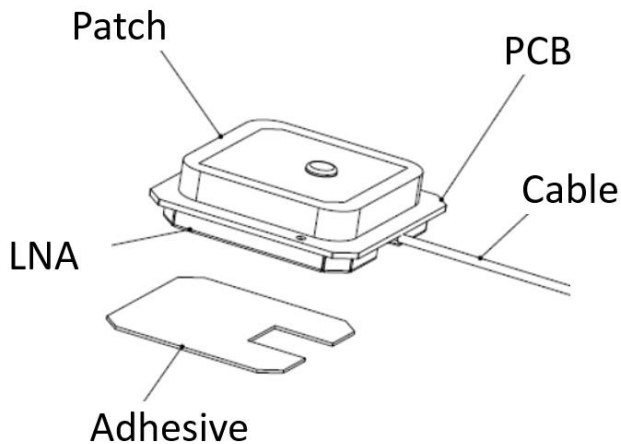
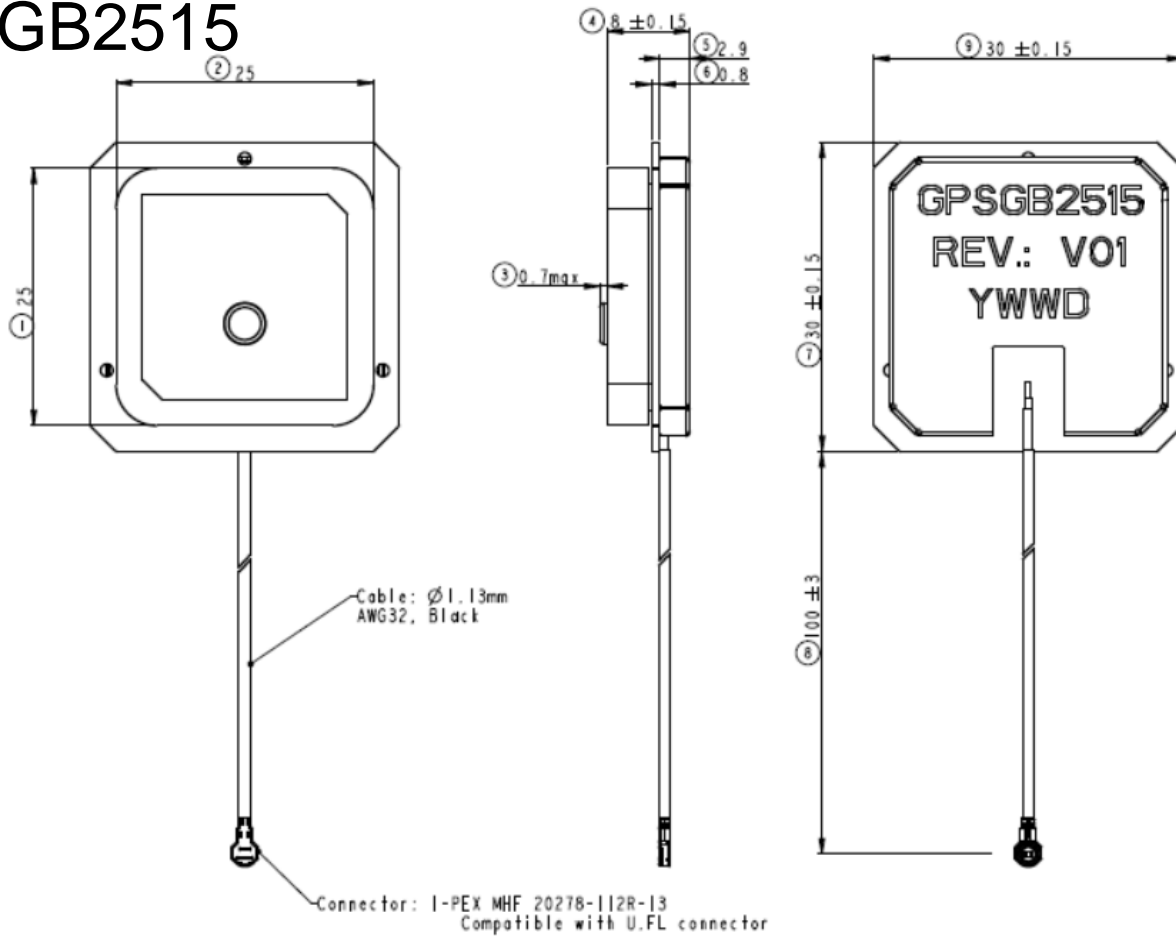
GPS/GLONASS/BEIDOU/COMPASS/Galileo

Series: Internal Active GPS

PART NUMBER: GPSGBXXXX

MECHANICAL DRAWING

GPSGB2515



P.S.:

Adhesive tape material: 3M R16 , T=0.4mm
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Series: Internal Active GPS

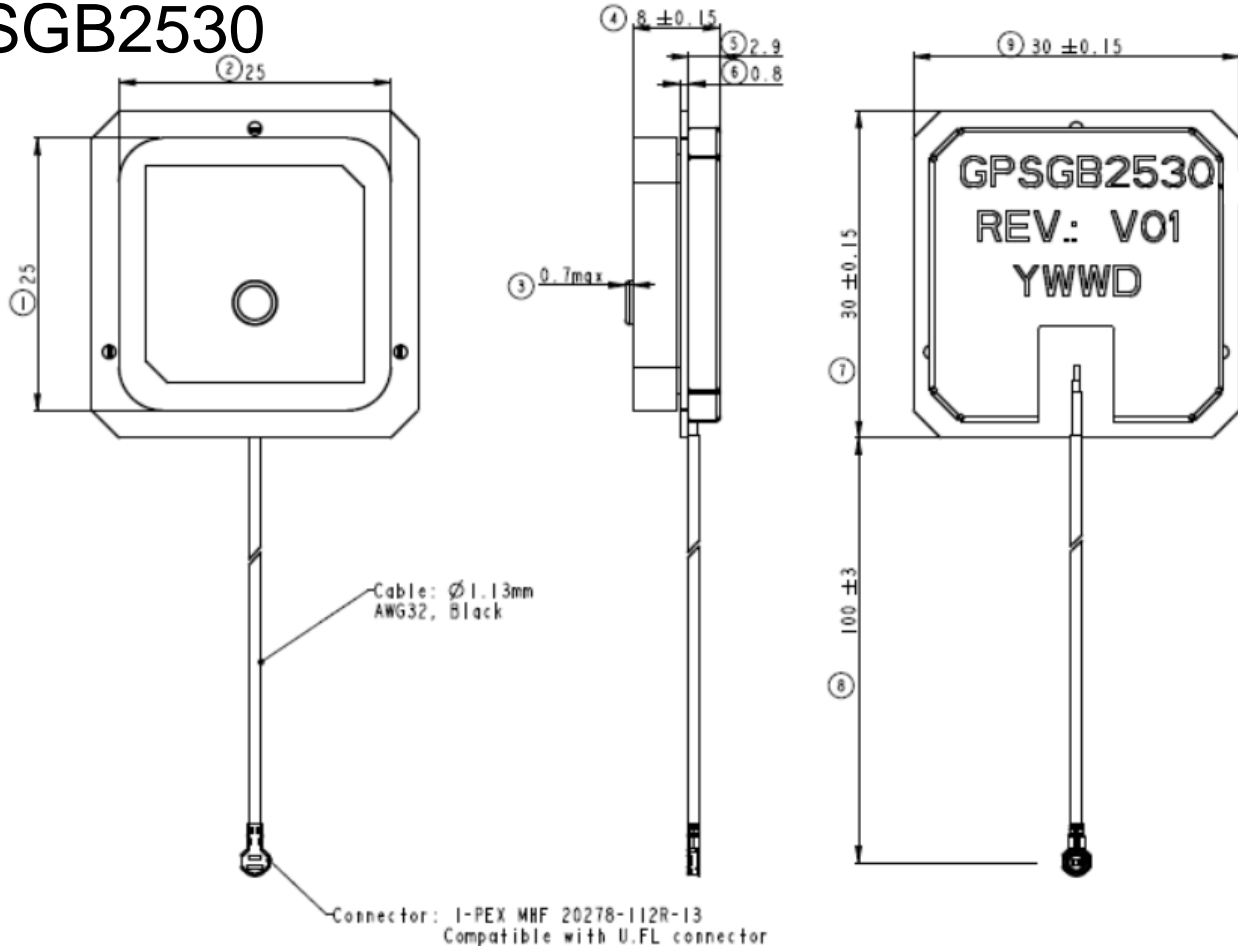
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GPS/GLONASS/BEIDOU/COMPASS/Galileo

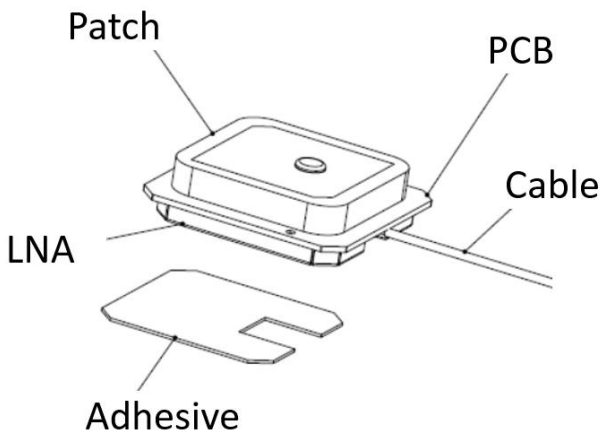
PART NUMBER: GPSGBXXXX

MECHANICAL DRAWING

GPSGB2530



Suggested Receptacle: I-PEX 20279-001E-44
or I-PEX 20441-001E-01



P.S.:

Adhesive tape material: 3M R16 , T=0.4mm

It's not assembled, but included in the sales package

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Series: Internal Active GPS

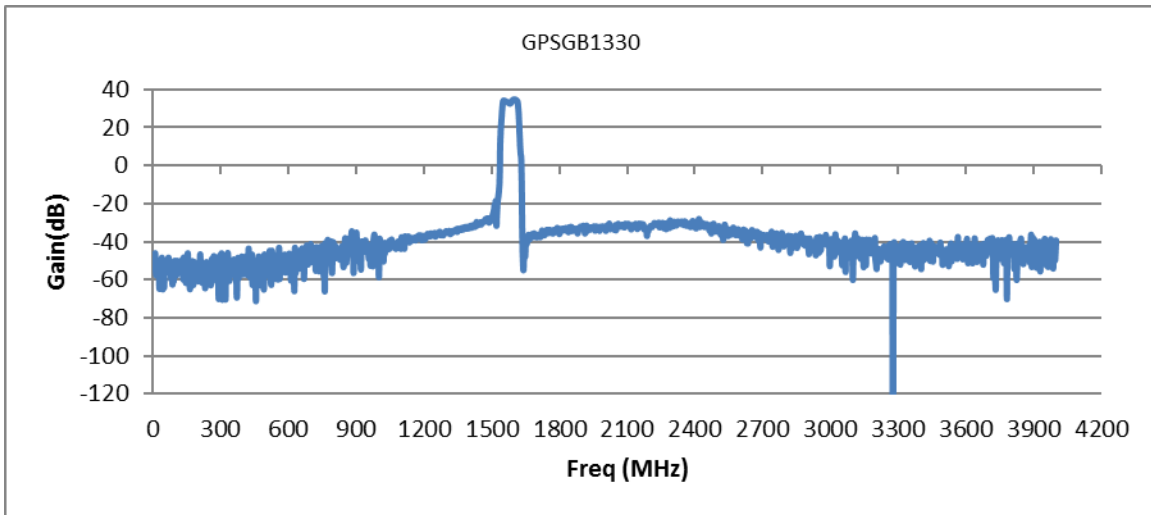
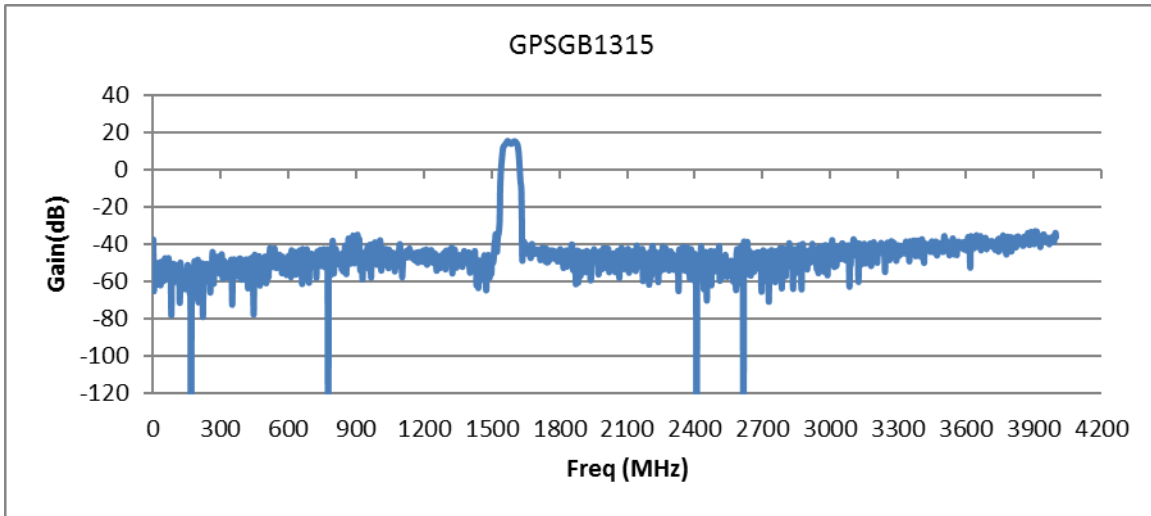
Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

CHARTS

LNA Gain and out-of-band rejection



Issue: 1626

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Series: Internal Active GPS

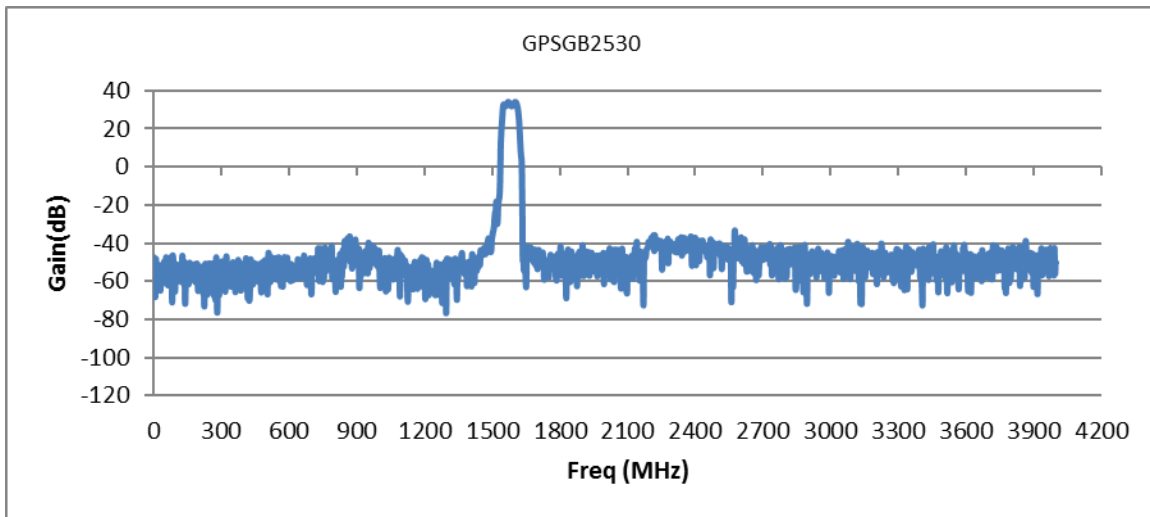
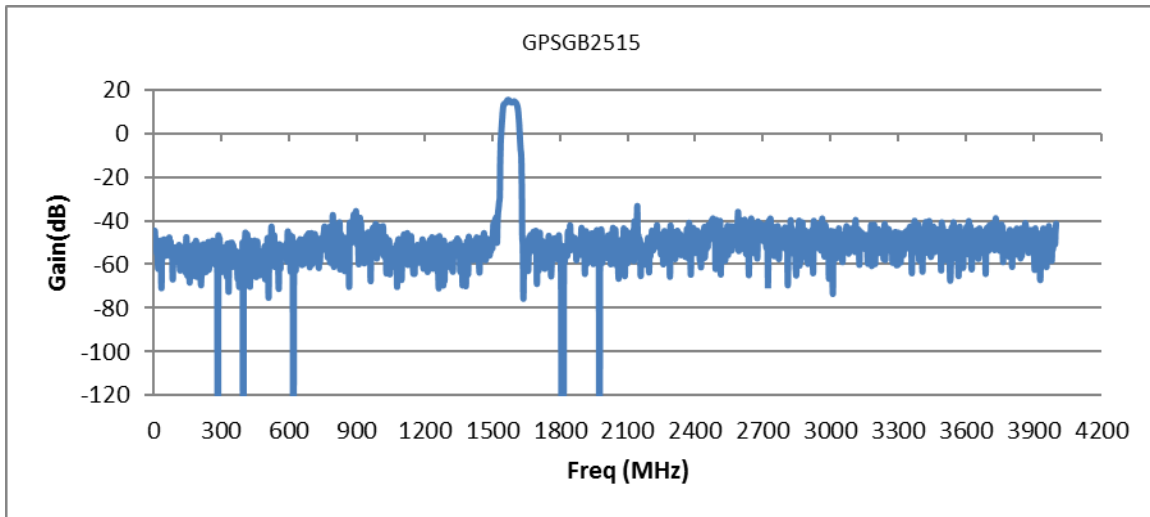
Description:

GPS/GLONASS/BEIDOU/COMPASS/Galileo

PART NUMBER: GPSGBXXXX

CHARTS

LNA Gain and out-of-band rejection



Issue: 1626

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Series: Internal Active GPS

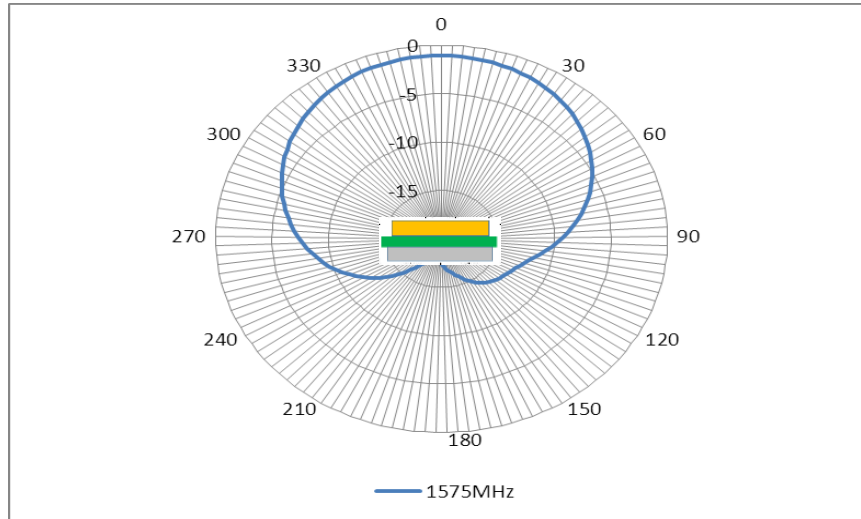
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GPS/GLONASS/BEIDOU/COMPASS/Galileo

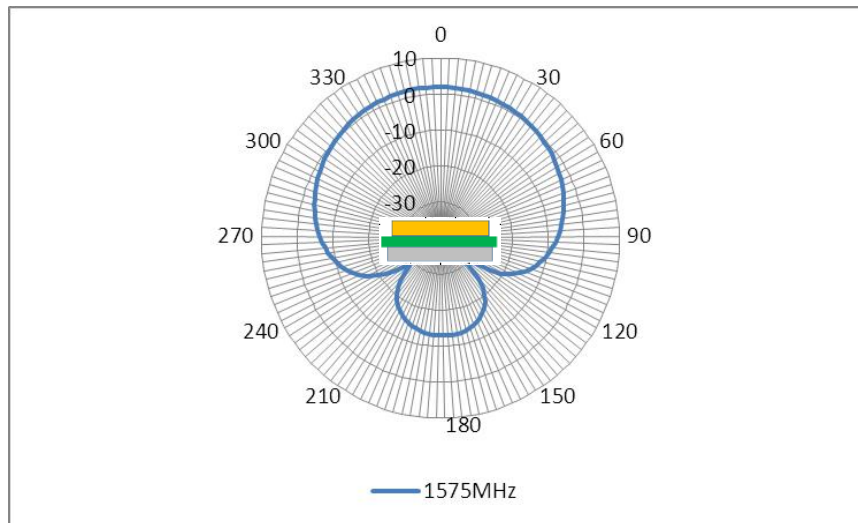
PART NUMBER: GPSGBXXXX

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GPS & Galileo



13 X 13 X 5mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

Issue: 1626

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Series: Internal Active GPS

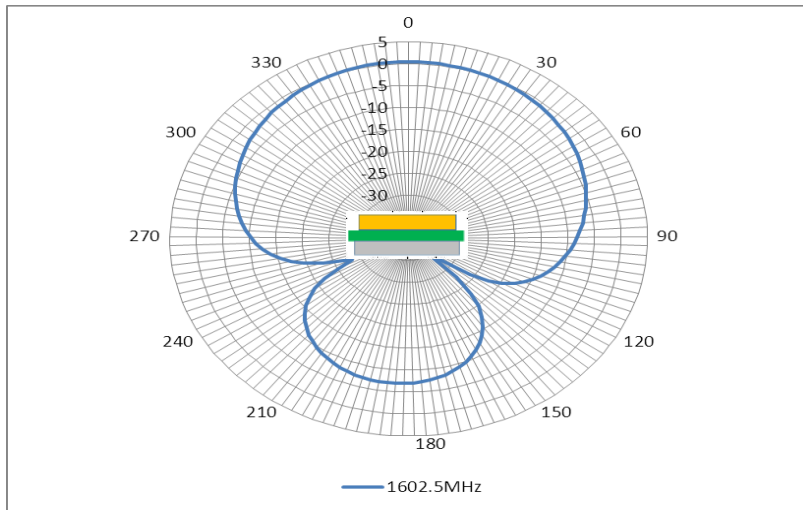
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GPS/GLONASS/BEIDOU/COMPASS/Galileo

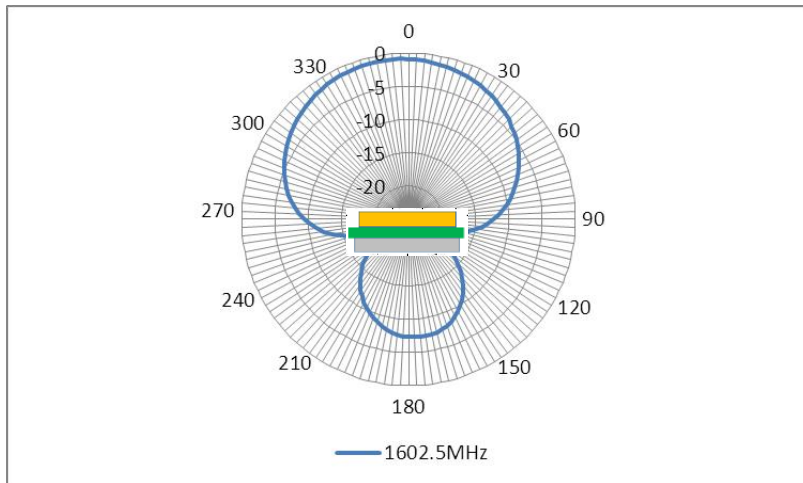
PART NUMBER: GPSGBXXXX

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GLONASS



13 X 13 X 5mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

Issue: 1626

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Series: Internal Active GPS

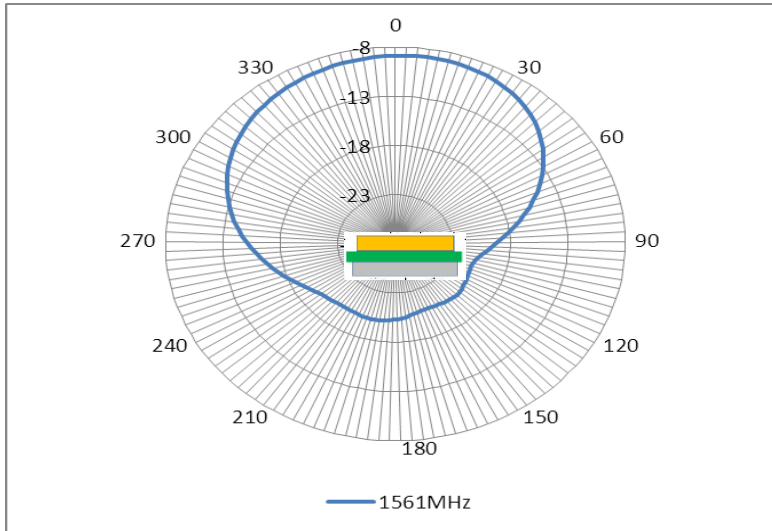
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GPS/GLONASS/BEIDOU/COMPASS/Galileo

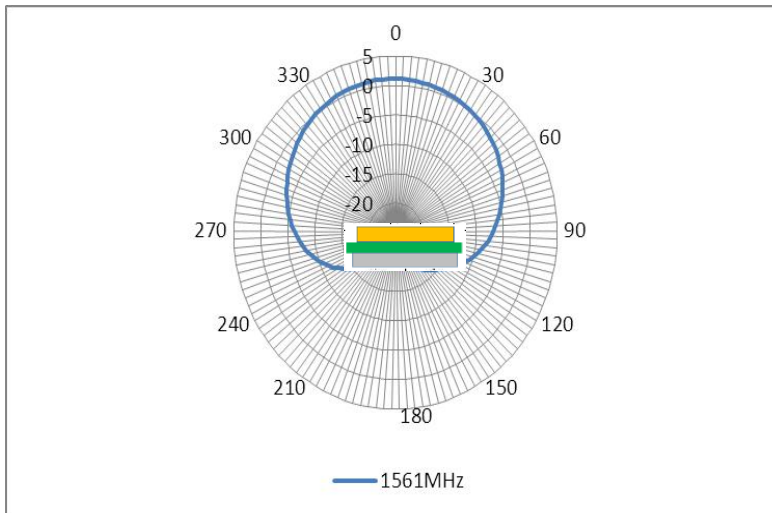
PART NUMBER: GPSGBXXXX

CHARTS

Radiation Pattern (70mm x 70mm ground plane) BD2



13 X 13 X 5mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

Issue: 1626

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