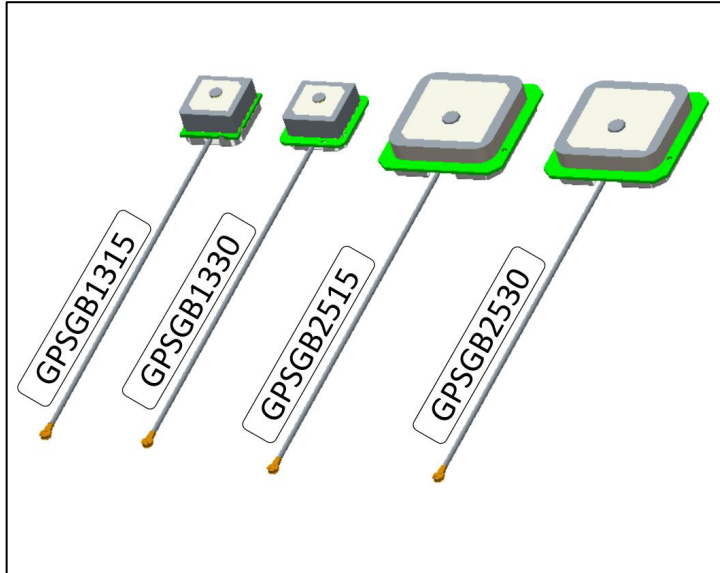


Description:

GPS/GLONASS/BEIDOU/COMPASS

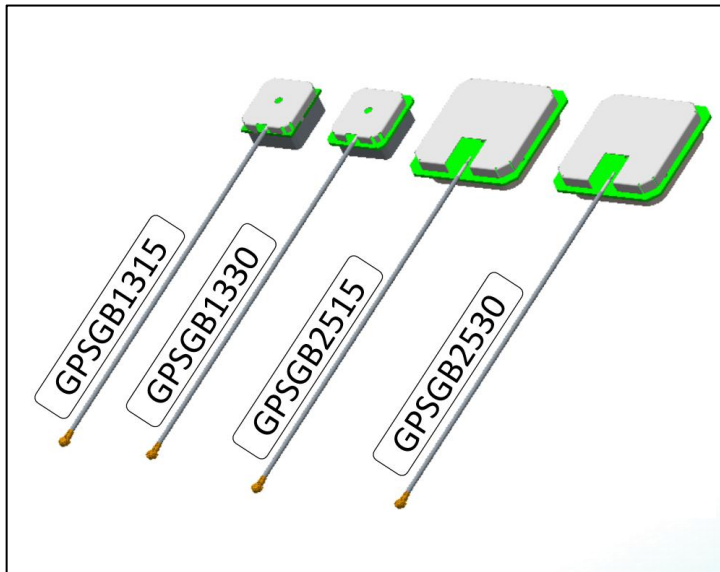
Series: Internal Active GPS

PART NUMBER: GPSGBXXXX



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:

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

All dimensions are in mm / inches

Issue: 1626P DRAFT RalfYe

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Preliminary



Description:

GPS/GLONASS/BEIDOU/COMPASS

Series: Internal Active GPS**PART NUMBER: GPSGBXXXX****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	Dia.: Φ1.3 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							

Preliminary

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

PART NUMBER: GPSGBXXXX

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

Preliminary

Issue: 1626P DRAFT RalfYe

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

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

Preliminary

Issue: 1626P DRAFT RalfYe

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

PART NUMBER: GPSGBXXXX

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

Preliminary

Issue: 1626P DRAFT RalfYe

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

PART NUMBER: GPSGBXXXX

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

Preliminary

Issue: 1626P DRAFT RalfYe

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

PART NUMBER: GPSGBXXXX

ELECTRICAL SPECIFICATIONS

ALL GPSGBXXXX

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

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Issue: 1626P DRAFT RalfYe

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Series: Internal Active GPS

Description:

GPS/GLONASS/BEIDOU/COMPASS

PART NUMBER: GPSGBXXXX

MECHANICAL SPECIFICATIONS

Fixing system

Adhesive Tape

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40 ~ +85° C

Preliminary

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