

P/Ns: GPSMOD1315, GPSMOD1333, GPSMOD2515, GPSMOD2533

**Description: Active GPS Antenna Modules 13mm x 13mm and 25 mm x 25 mm sizes**

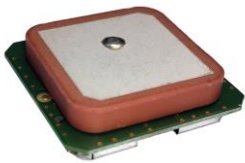
## Part# GPSMODxxxx Series

### Features

- Small form factor
- Includes low noise amplifier(LNA) 16 and 33dB options
- Suitable for mounting inside device
- 3-5v operating voltage
- Low noise figure

### Applications

- Use in GPS enabled devices
- Portable Handsets
- Automotive Navigation
- Tracking and Positioning
- GNSS



#### Confidential and Proprietary – Pulse Electronics – All Rights reserved – 2015

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its content, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden. Information subject to change without notice.

#### For More Information

##### Pulse Worldwide Headquarters

12220 World Trade Drive  
San Diego, CA 92128  
USA

Tel: 1- 858-674-8100  
Fax: 1-858-674-8262

##### Larsen Brand Antennas

3611 NE 112<sup>th</sup> Ave  
Vancouver, WA 98682  
USA

Tel: 1-360-944-7551  
Fax: 1-360-944-7556

##### Europe Headquarters

Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 135

##### Pulse (Suzhou) Wireless Products Co, Inc.

99 Huo Ju Road(#29 Bldg, 4<sup>th</sup> Phase  
Suzhou New District  
Science & Tech Industrial Park  
Jiangsu Province, Suzhou 215009 PR China

Tel: 86 512 6807 9998  
Fax: 86 512 6809 8023



Performance warranty of products offered in this data sheet is limited to the parameters specified. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.  
©Copyright, 2015. Pulse Electronics, Inc. All rights Reserved.

## Description: Active GPS Antenna Modules

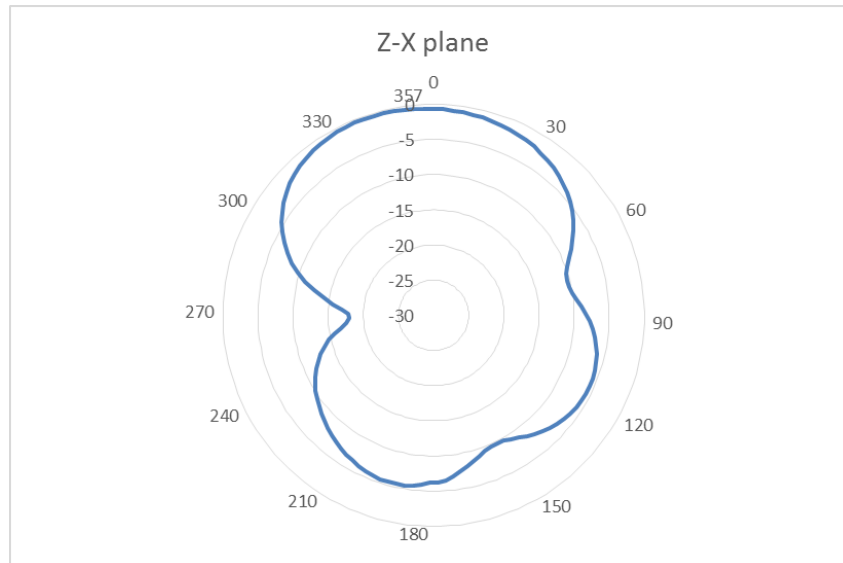
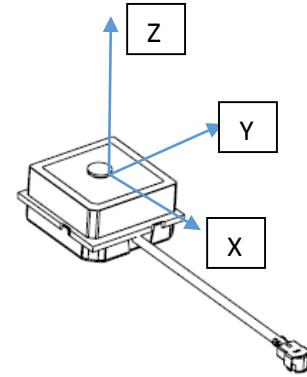
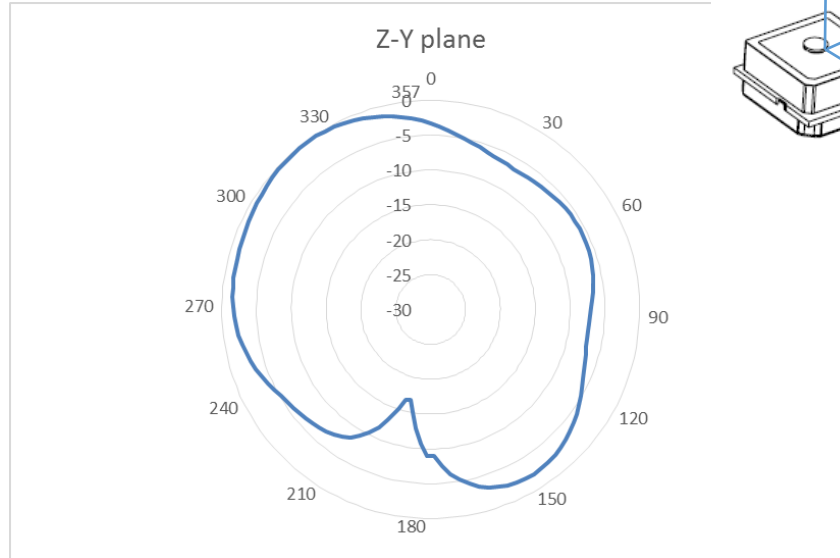
13mm x 13 mm and 25 mm x 25 mm sizes

## Part# GPSMODxxxx Series

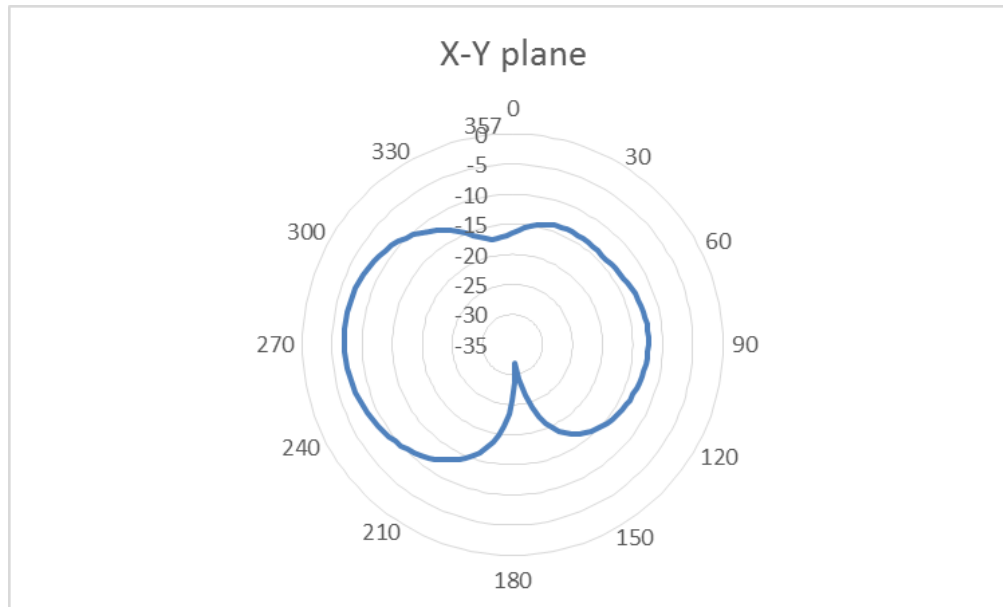
	GPSMOD1315	GPSMOD1333	GPSMOD2515	GPSMOD2533
<b>ELECTRICAL SPECIFICATIONS</b>				
FREQUENCY	1575.42mhz	1575.42mhz	1575.42mhz	1575.42mhz
NOMINAL IMPEDANCE (Ω)	50	50	50	50
VSWR	1.5:1	1.5:1	1.5:1	1.5:1
GAIN RADIATING ELEMENT	-1dBic +/- 1 dB	-1dBic +/- 1 dB	3.4dBic +/- 1 dB	3.4dBic +/- 1 dB
GAIN LNA	16 dB +/- 1 dB	33 dB +/- 2 dB	16 dB +/- 1 dB	33 dB +/- 2 dB
LNA NOISE FIGURE	< 2.4 dB	< 2.4 dB	< 2.6 dB	< 3.4 dB
POLARIZATION	RCHP	RCHP	RCHP	RCHP
OPERATING VOLTAGE	3.3-5 Vdc +/- 0.5 V	3.3-5 Vdc +/- 0.5 V	3.3-5 Vdc +/- 0.5 V	3.3-5 Vdc +/- 0.5 V
CURRENT COMSUMPTION	< 6A mA	< 10A mA	< 6A mA	< 10A mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>				
OPERATION TEMPERATURE	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C
<b>MECHANICAL SPECIFICATIONS</b>				
WEIGHT	4.8g	4.8g	13.5g	13.5g
DIMENSIONS	13 mm x 13 mm	13 mm x 13 mm	25 mm x 25 mm	25 mm x 25 mm
CABLE LENGTH	32mm	32mm	N/A	N/A
MOUNTING	DOUBLE SIDED ADHESIVE TAPE PROVIDED	DOUBLE SIDED ADHESIVE TAPE PROVIDED	DOUBLE SIDED ADHESIVE TAPE PROVIDED	DOUBLE SIDED ADHESIVE TAPE PROVIDED
CABLE TYPE	0.81mmCOAXIAL	0.81mmCOAXIAL	N/A	N/A
CONNECTOR	U.FL & IPEX COMPLIANT	U.FL & IPEX COMPLIANT	Solder pads for coaxial cable	Solder pads for coaxial cable

Description: Active GPS Antenna Modules  
13mm x 13 mm and 25 mm x 25 mm sizes  
Part# GPSMODxxxx Series

## PATTERN DATA – GPSMOD1315



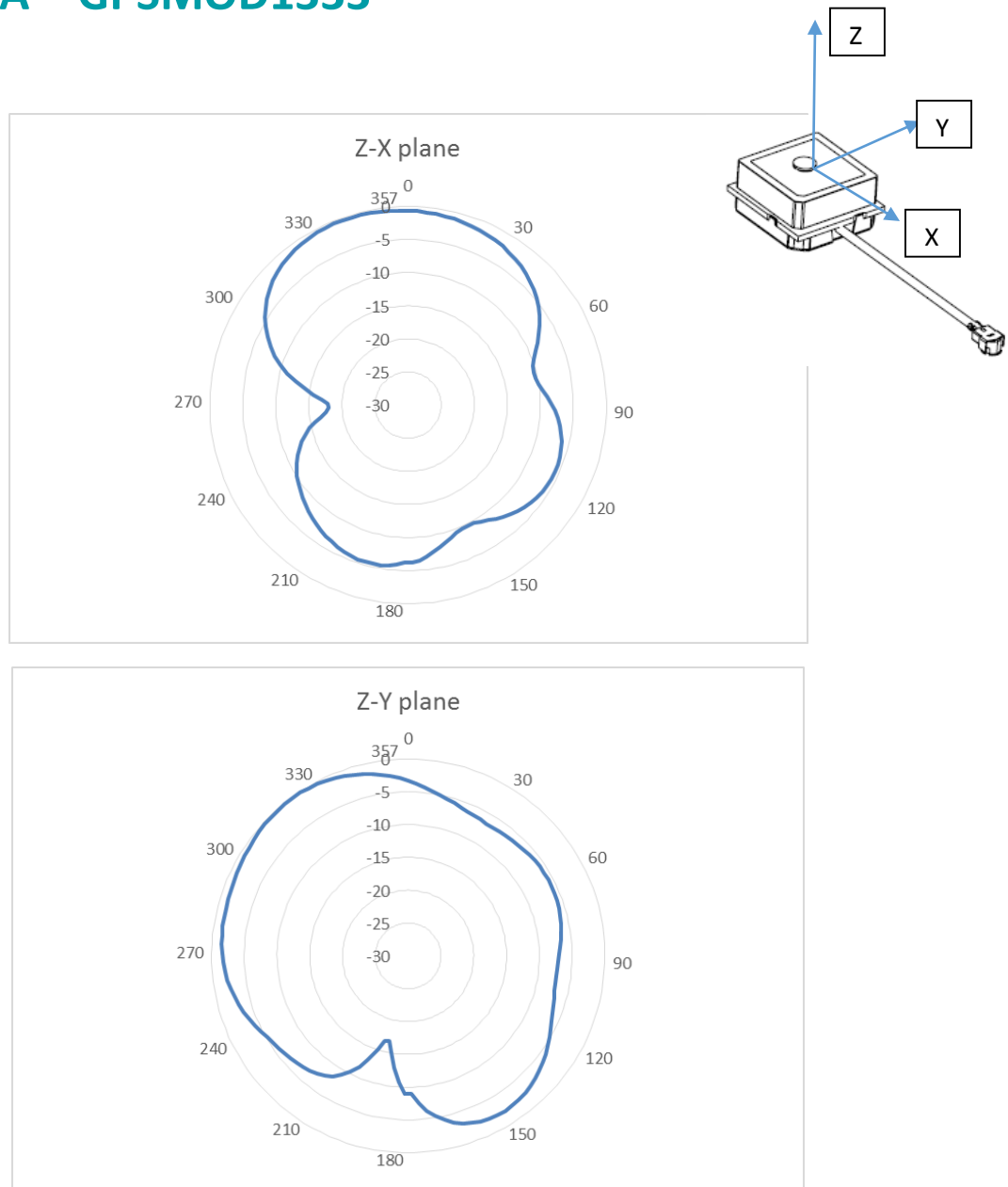
**Description: Active GPS Antenna Modules**  
**13mm x 13 mm and 25 mm x 25 mm sizes**  
**Part# GPSMODxxxx Series**



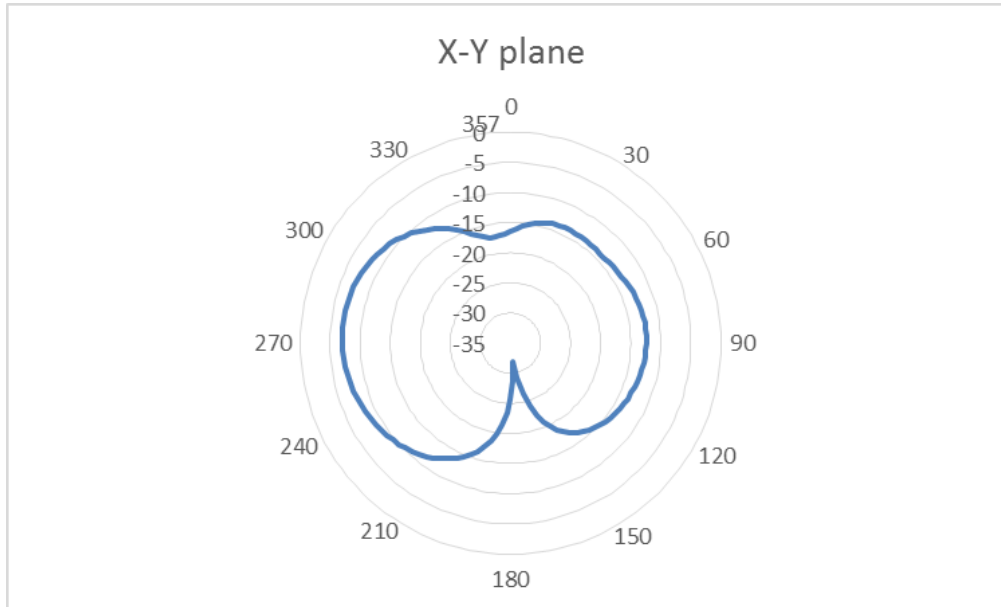
Out of Band Rejection	
698MHz	75dB
960MHz	80dB
1710MHz	70dB
2170MHz	60dB
2400MHz	60dB
2700MHz	55dB

Description: Active GPS Antenna Modules  
13mm x 13 mm and 25 mm x 25 mm sizes  
Part# GPSMODxxxx Series

## PATTERN DATA – GPSMOD1333



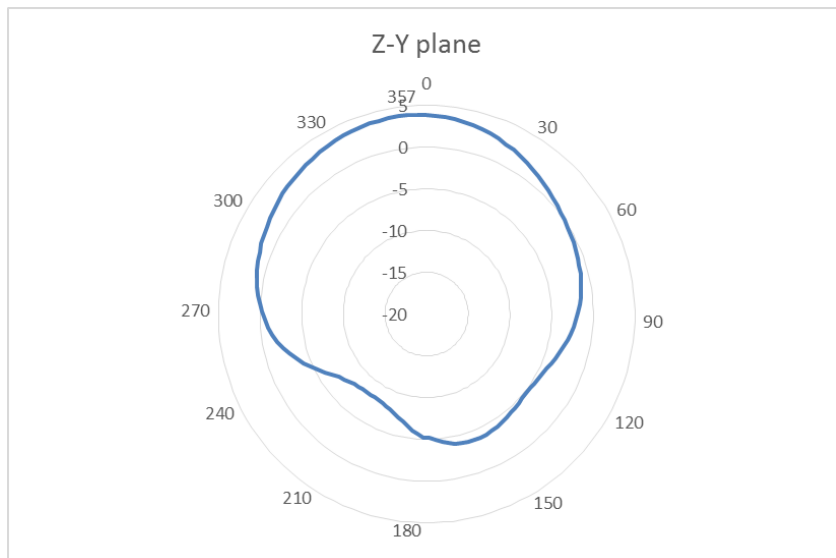
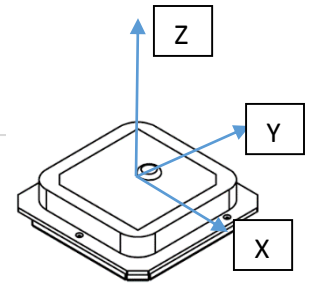
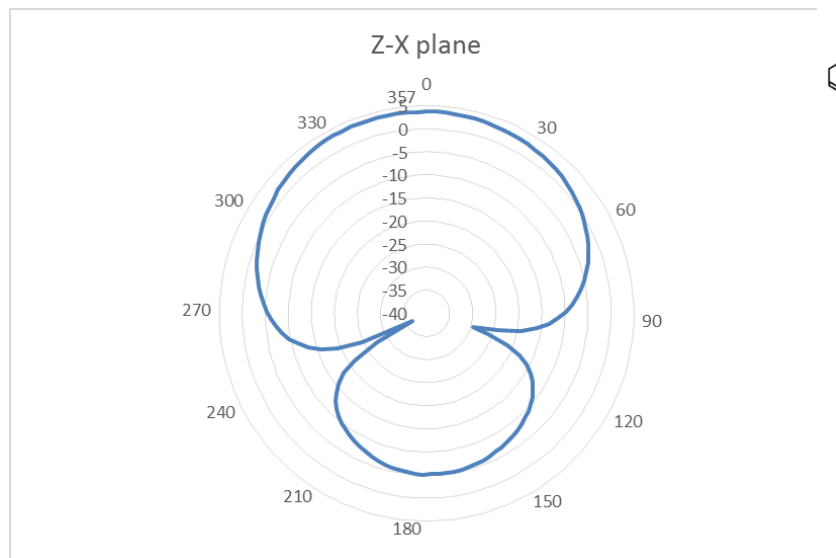
**Description: Active GPS Antenna Modules**  
**13mm x 13 mm and 25 mm x 25 mm sizes**  
**Part# GPSMODxxxx Series**



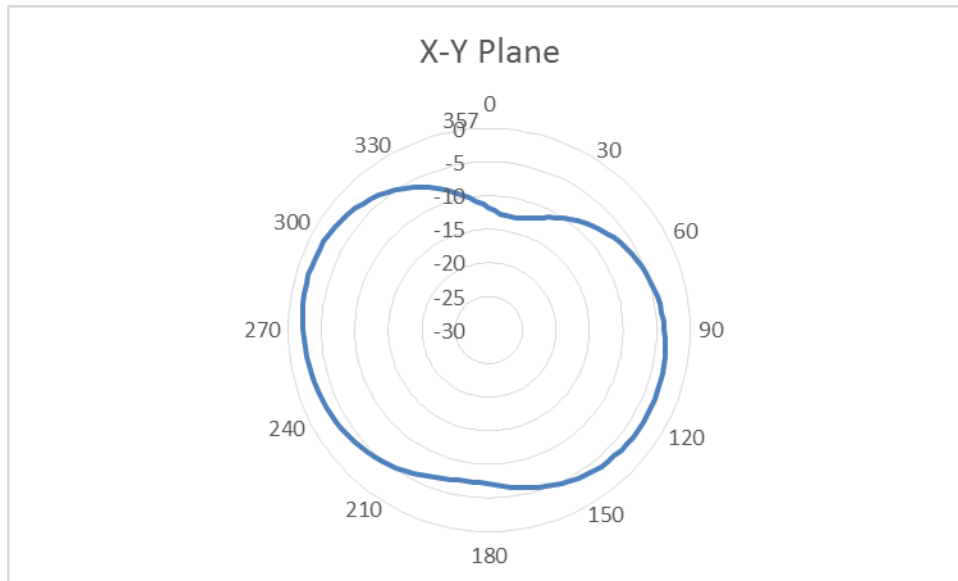
Out of Band Rejection	
698MHz	90dB
960MHz	80dB
1710MHz	70dB
2170MHz	65dB
2400MHz	65dB
2700MHz	75dB

Description: Active GPS Antenna Modules  
13mm x 13 mm and 25 mm x 25 mm sizes  
Part# GPSMODxxxx Series

## PATTERN DATA – GPSMOD2515



**Description: Active GPS Antenna Modules**  
**13mm x 13 mm and 25 mm x 25 mm sizes**  
**Part# GPSMODxxxx Series**

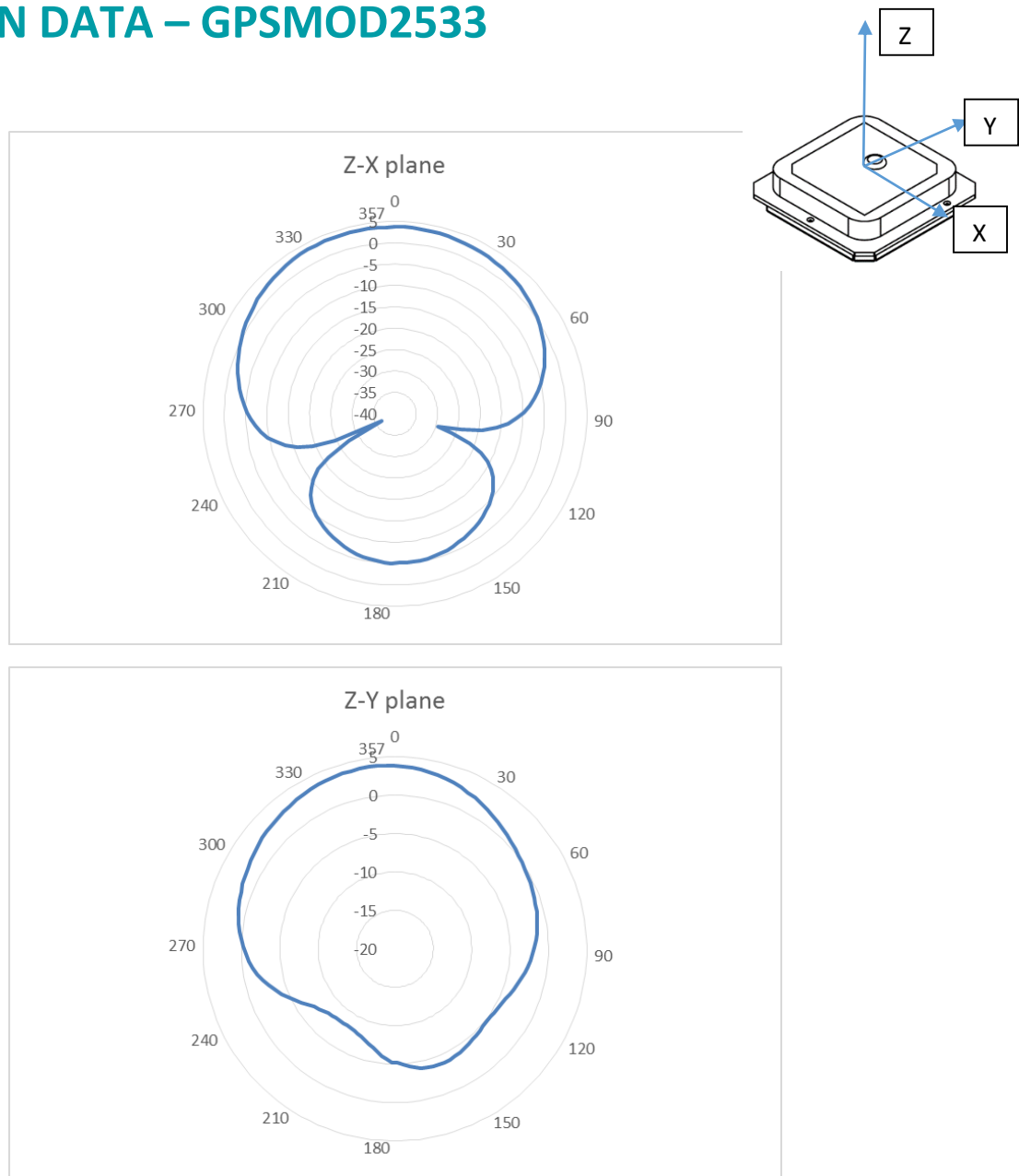


Out of Band Rejection	
698MHz	85dB
960MHz	75dB
1710MHz	70dB
2170MHz	65dB
2400MHz	65dB
2700MHz	65dB

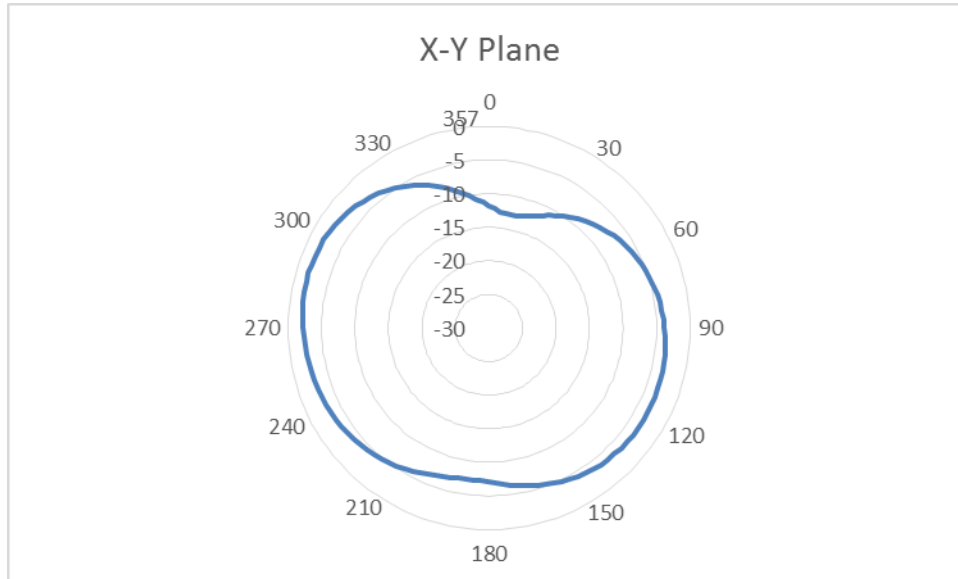


Description: Active GPS Antenna Modules  
13mm x 13 mm and 25 mm x 25 mm sizes  
Part# GPSMODxxxx Series

## PATTERN DATA – GPSMOD2533



**Description: Active GPS Antenna Modules**  
**13mm x 13 mm and 25 mm x 25 mm sizes**  
**Part# GPSMODxxxx Series**



Out of Band Rejection	
698MHz	90dB
960MHz	93dB
1710MHz	85dB
2170MHz	75dB
2400MHz	75dB
2700MHz	84dB