

**Description: MiMo LTE, GNSS Vehicle Mount  
Antenna**

**Series: Panther**

**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R,  
GPSMB302R**



**Features:**

- Supports LTE 698-960/1695-2170/2300-2700/2900-3600MHz(MIMO)
- Supports Beidou, GPS, Galileo, GLONASS
- Direct Mount and optional Magnetic Mount features
- See GPSMBMM for magnetic mount details

**Applications:**

- Energy (Utility Vehicles)
- First Responders (Police, Ambulance, Fire)
- Fleet Management
- Location based services
- Telematics
- Railroad

All dimensions are in mm / inches

Issue: 1823

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For more information:

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

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

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

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



Description: MiMo LTE, GNSS Vehicle Mount  
Antenna

Series: Panther

PART NUMBER: GPSMB301, GPSMB302, GPSMB301R,  
GPSMB302R**This document covers all product variants of the following product family**

Model No.	Color	Remark
GPSMB301	Black	
GPSMB302	White	
GPSMB301R	Black	Compliant with EN 50155, EN 61373, EN45545-2, railroad application.
GPSMB302R	White	Compliant with EN 50155, EN 61373, EN45545-2, railroad application.

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## Description: MiMo LTE, GNSS Vehicle Mount Antenna

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### ELECTRICAL SPECIFICATIONS

Frequency (LTE)	698 – 960 / 1695 - 2170 / 2300 – 2700 / 2900 - 3600	MHz
Frequency (Beidou, GPS, Galileo, Glonass)	1561.098 ± 2.046 / 1575.42 ± 1.023 / 1602.5625 ± 4	MHz
Nominal Impedance	50	Ω
VSWR (LTE)	< 1.5	
Gain* (LTE antenna, < 2170 MHz)	6	dBi ± 1 dB
Gain* (LTE antenna, > 2170 MHz)	5.5	dBi ± 1 dB
Isolation LTE to LTE**	15 or better	dB
GNSS antenna RHCP gain	1	dBic ± 2dB
LNA gain	30	dB ± 2 dB
Noise Figure	2.5 (cascade)	dB
Current	8	mA ± 2 mA
V <sub>dc</sub>	3-5	V <sub>dc</sub>
LNA and filter attenuation		
	@ 824 MHz	70 dB
	@ 960 MHz	65 dB
	@ 1710 MHz	60 dB
	@ 2170 MHz	65 dB
Connector type	SMA	
Cable type(s)	RG-58 (LTE) / RG-174 (GPS)	
Length	17	Feet

\*Measured on 2ft GND plane and with 4 inch cables

\*\*In free space with 17ft cables

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**Description: MiMo LTE, GNSS Vehicle Mount  
Antenna****Series: Panther****PART NUMBER: GPSMB301, GPSMB302, GPSMB301R,  
GPSMB302R****MECHANICAL SPECIFICATIONS**

Plastic radome for GPSMB301/GPSMB302	ABS/PC Material UV Stabilized, UL-94HB
for GPSMB301R/GPSMB302R	PC material, EN45545 R6 HL3 compliant
Color	Black, White
Ingress Protection	IP67
Weight	~940 g
Mounting	Direct or Magnetic options

**ENVIRONMENTAL SPECIFICATIONS**

Operating temperature	-40-+85° C
Humidity	95%RH @ +25°C for 12h and 55°C for 12h
Vibration	MIL-STD 810G, section 514.6 , 5-500 Hz, 60min/axis
Thermal Shocks	MIL-STD 810G, section 503.5, -40 to +85°C, 3 cycles
Drop Test	Minimum of one drop per axis – 4, 1 meter drops

**Description: MiMo LTE, GNSS Vehicle Mount Antenna**
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**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R**
**Tests for railroad certification per EN50155, EN61373, EN45545-2**

NO	T SN IN STAND	TEST DESCRIPTION	REFER STANDARD	TEST REPORT NO	RESULT(PASS/FAIL)
1	12.2.3	Cooling test	EN 50155	DD20170919002	PASS
2	12.2.4	Dry heat test			
3	12.2.5	Damp heat test, cyclic			
4	12.2.6	Supply overvoltages	EN 50155	W01714200900E	PASS
5	12.2.7	Surges, electrostatic discharge and transient burst susceptibility tests	EN 50155	E1710056-01E	PASS
6	12.2.8	Radio interference			
7	12.2.9	Insulation test	EN 50155	E17110014-01E	PASS
8	12.2.10	Salt mist test	EN 50155	DD20170919002	PASS
9	12.2.11	Vibration	EN 61373		
		Shock, and bump test	EN 61373		
10	12.2.12	Watertightness test	EN 50155		
11	12.2.14	Low temperature storage test	EN 50155	TC 18 02 000528	HL1&HL2
12	/	fire & smoke	EN 45545-2 R15&R16		
			EN 45545-2 R15&R16	TC.18.04.001633	HL1&HL2&HL3

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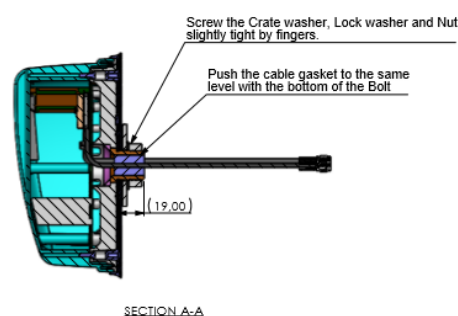
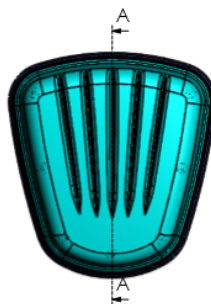
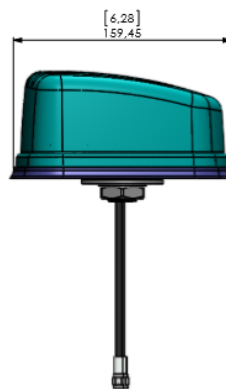
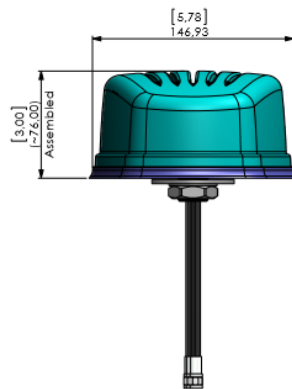
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### MECHANICAL DRAWING




Tolerances of linear dimensions MEDIUM ISO 2768-m	
Dimension	Tolerance
0,5 - 3	±0,1
3 - 6	±0,15
6 - 30	±0,2
30 - 120	±0,3
120 - 400	±0,5
400 - 1000	±0,8
1000 - 2000	±1,2
2000 - 4000	±2
Tolerances of angular dimensions MEDIUM ISO 2768-m	
Dimension of angles (millimeter)	Tolerance
up to 10	±1°
10 - 30	±0°30'
30 - 120	±0°20'
120 - 400	±0°15'
over 400	±0°10'
Tolerances of radii and chamfers MEDIUM ISO 2768-m	
Radius chamfer height	Tolerance
0,5 - 3	±0,2
3 - 6	±0,5
over 6	±1

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Functional Characteristics (v): Process capability studies required: total 0 pcs. Process capability studies required and ongoing statistical process control required: total 0 pcs.	
Mod	Application
P01	1 Cable Tie around GPS updated.
A	A-Release.

No recycling crates allowed to use.	
 Pulse Finland Oy Tervatie 6 02600 Espoo, Finland Tel: +358 207 733 200 Fax: +358 207 733 201 www.pulseelectronics.com/antennas	
Product	GPSMB301
Part Name	Antenna Assembly

 Sheet number: 2/2 General tolerance: Customer number: Date: 12.04.2015 Drawn: Jarko Check: Jarko Appr: Jarko	
Scale: 1:2 (A2)	Document number: GPSMB301
Part Version: A	Document Version: A
Mod: A	Date: 18.09.2015
Mod: A	Date: 18.09.2015
Mod: A	Date: 18.09.2015

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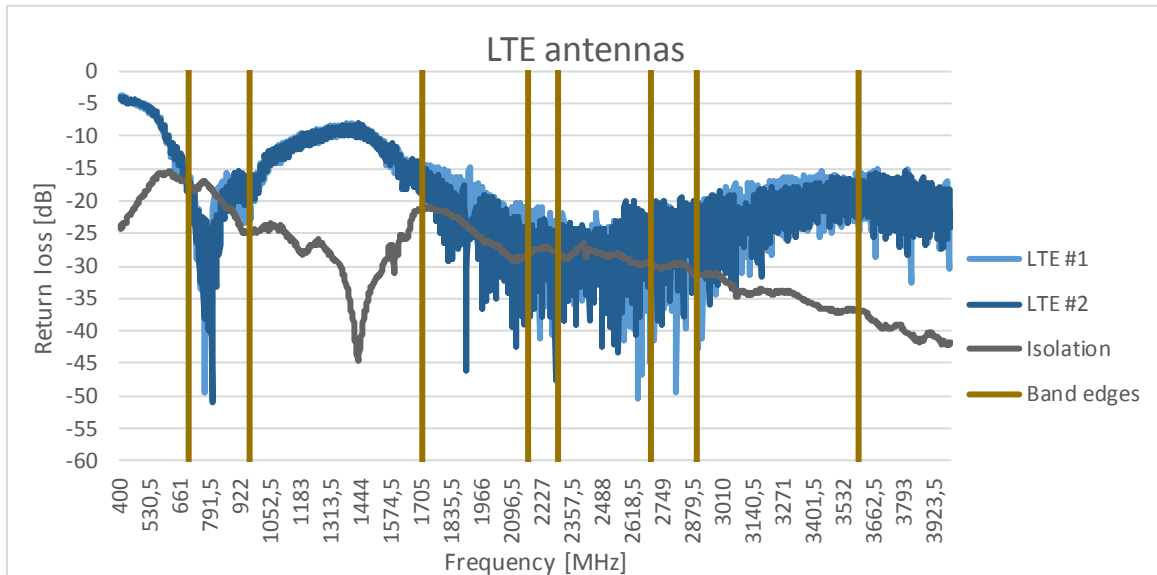
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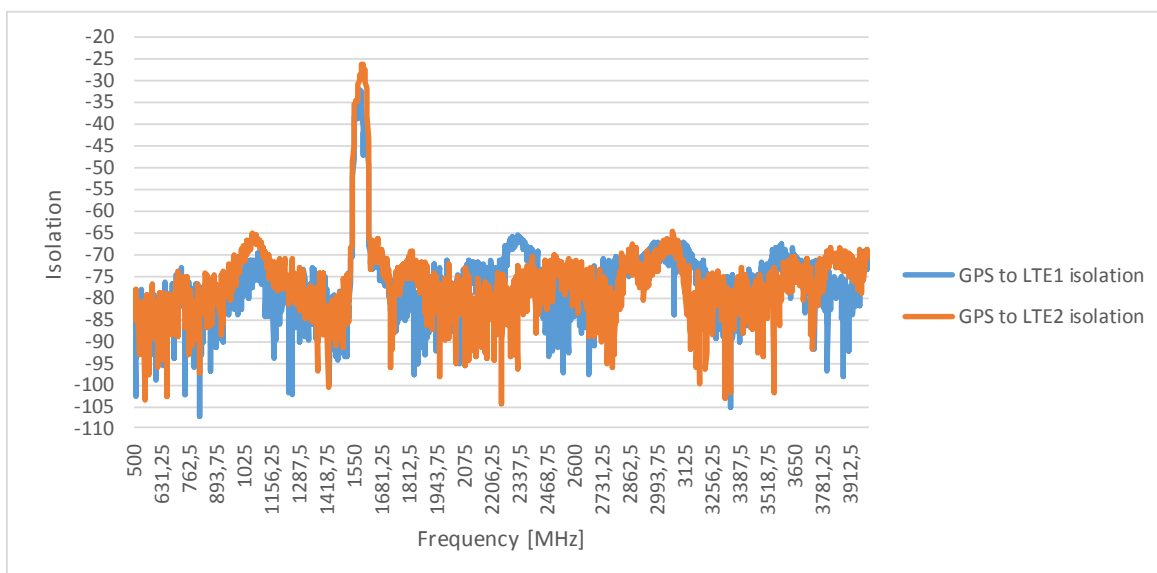
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

## CHARTS

Return loss and isolation in free space, LTE antennas\*\*



GNSS isolation to LTE 1 and LTE 2 antenna\*



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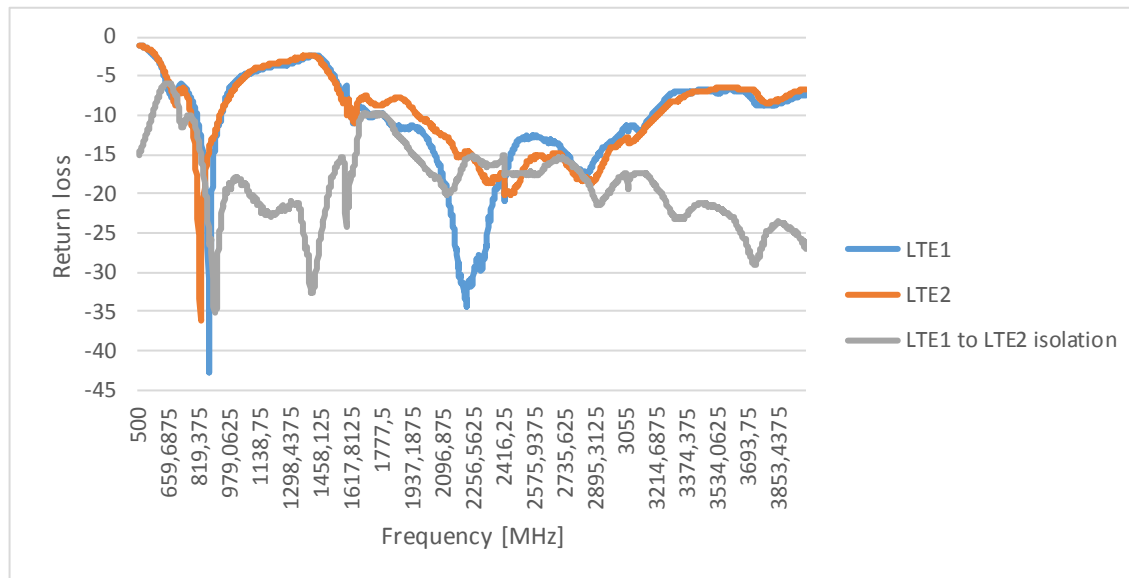
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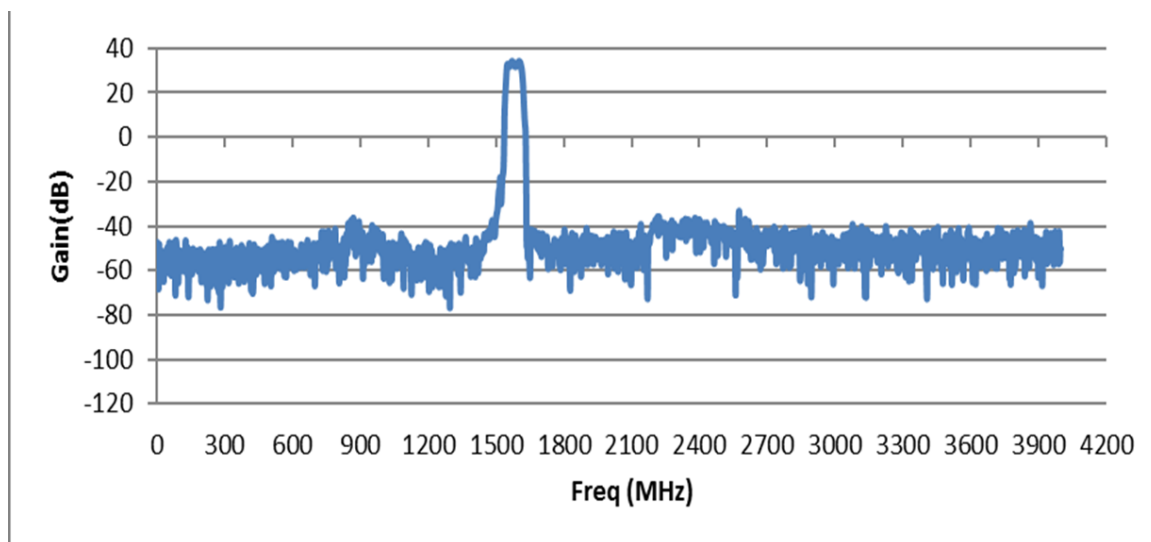
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### CHARTS

#### Return loss and isolation, LTE antennas\*



#### GNSS LNA performance



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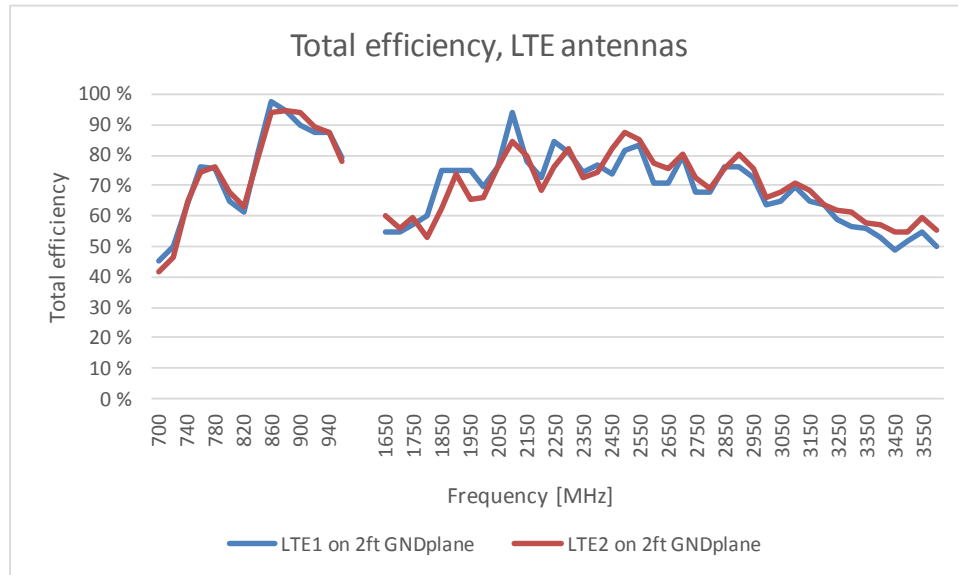
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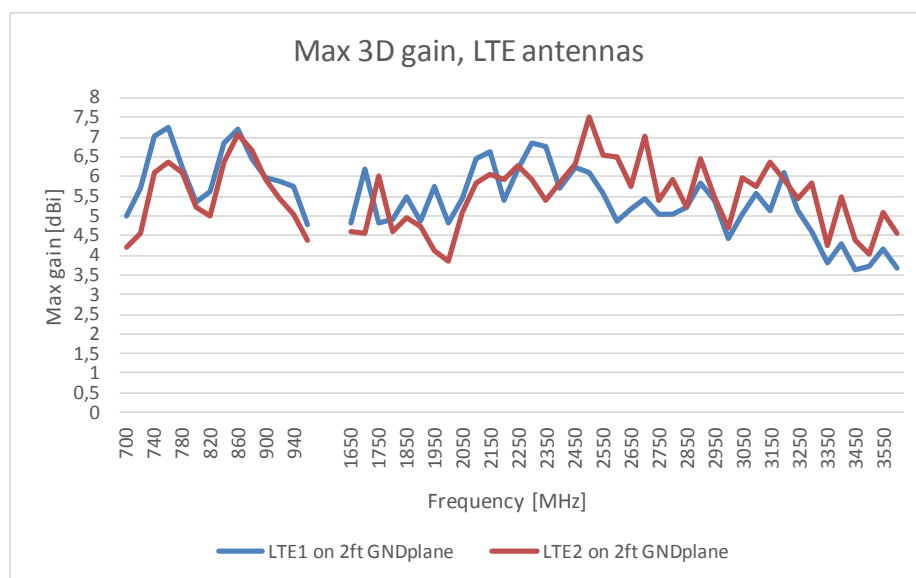
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

## CHARTS

LTE antenna total efficiency with 2ft metal plate and 4 inch cables



Maximum 3D gain, LTE antenna with 2ft metal plate and 4inch cables



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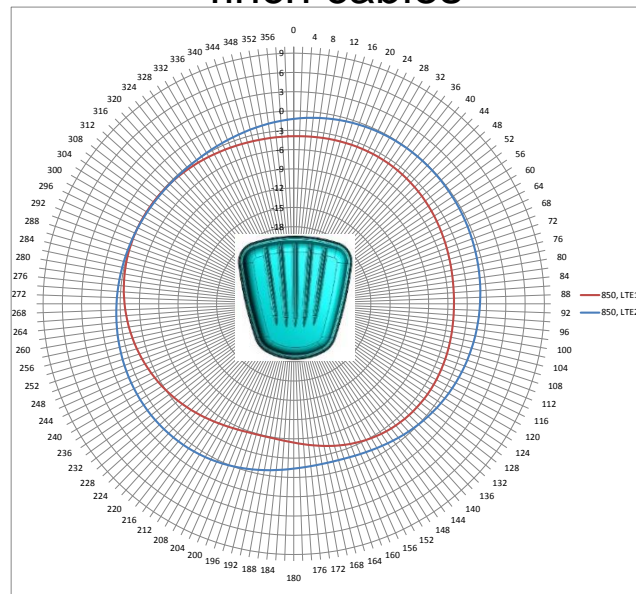
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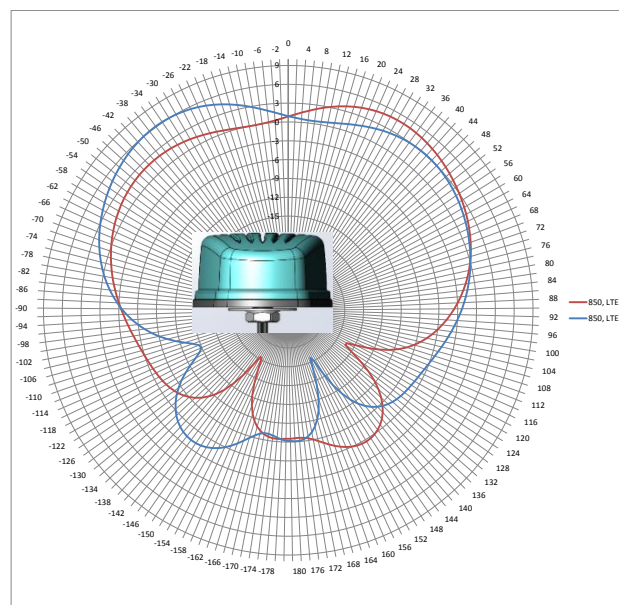
**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R**

## CHARTS

LTE antenna radiation pattern at 850MHz with 2ft metal plate and 4inch cables



Horizontal plot



Vertical plot front view

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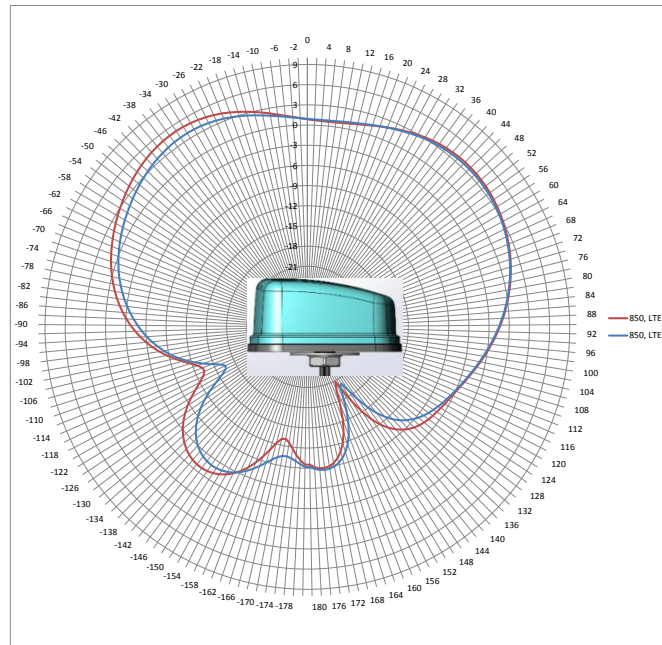
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**CHARTS**

LTE antenna radiation pattern at 850MHz with 2ft metal plate and  
4inch cables



Vertical plot side view

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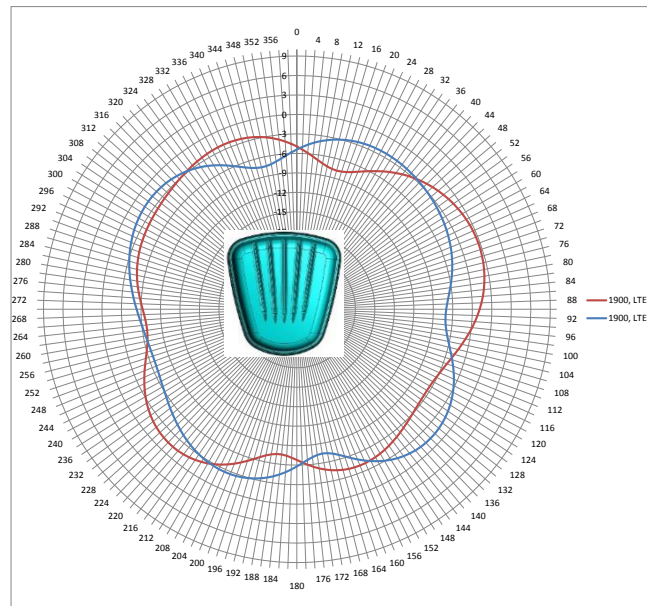
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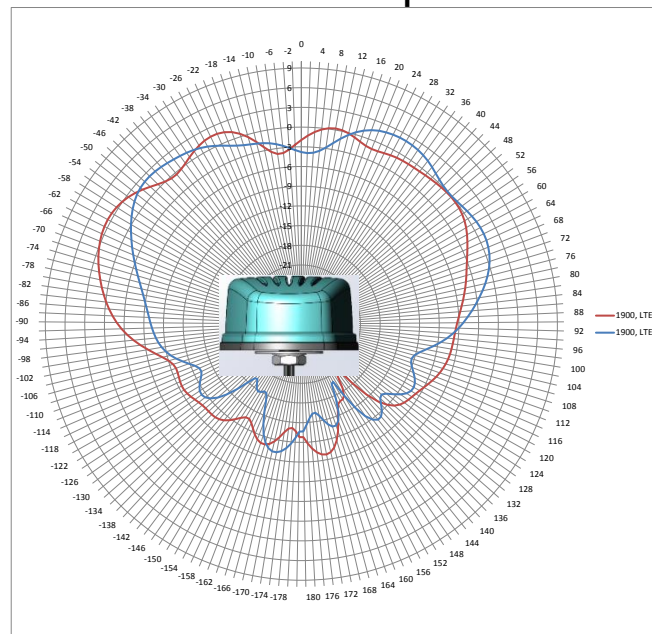
**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R**

## CHARTS

LTE antenna radiation pattern at 1900MHz with 2ft metal plate and 4inch cables



Horizontal plot



Vertical plot front view

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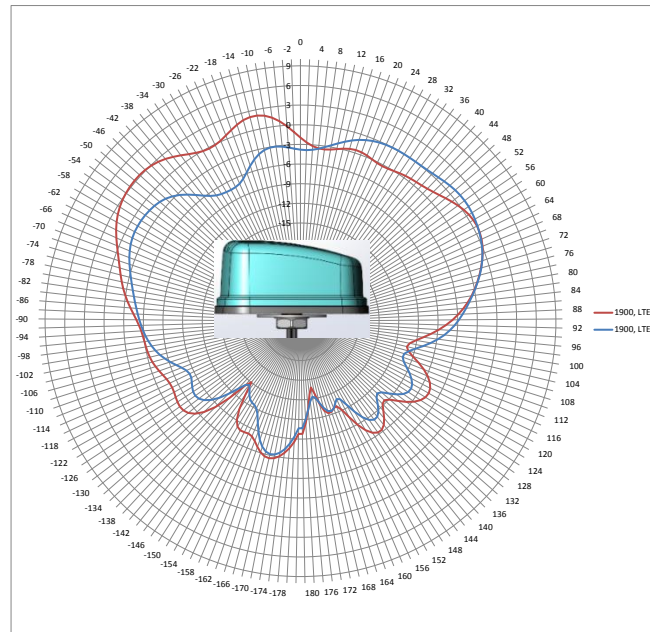
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Series: Panther

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## CHARTS

LTE antenna radiation pattern at 1900MHz with 2ft metal plate and 4inch cables



Vertical plot side view

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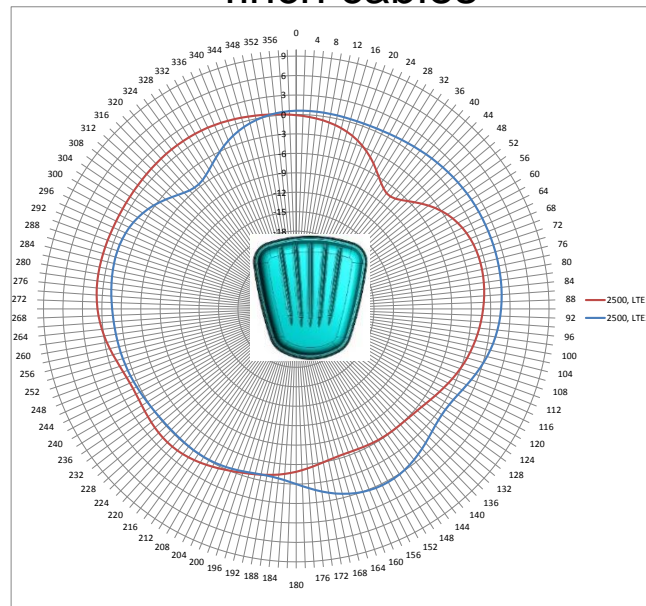
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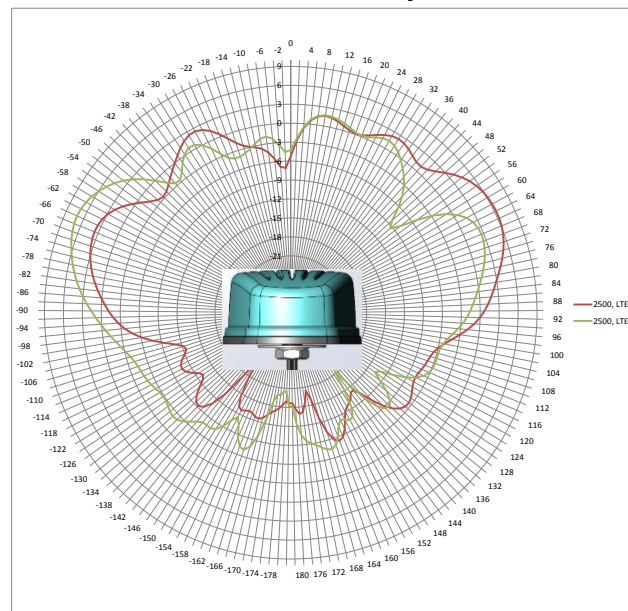
**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R**

## CHARTS

LTE antenna radiation pattern at 2500MHz with 2ft metal plate and 4inch cables



Horizontal plot



Vertical plot front view

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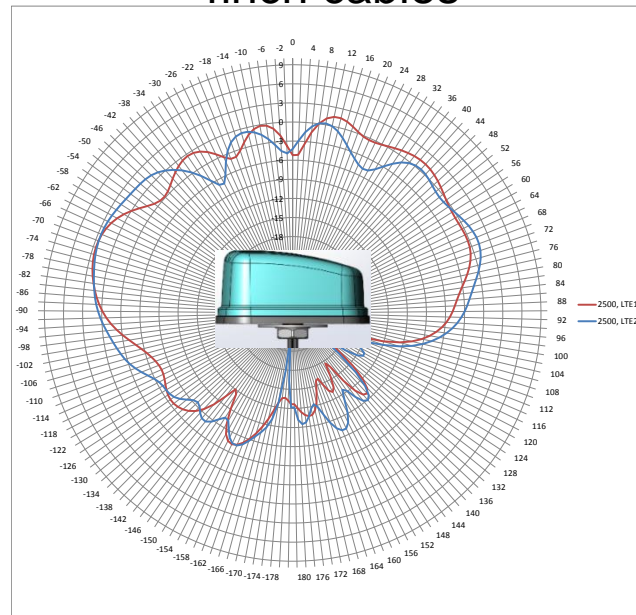
**Description: MiMo LTE, GNSS Vehicle Mount  
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**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R,  
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**CHARTS**

**LTE antenna radiation pattern at 2500MHz with 2ft metal plate and  
4inch cables**



**Vertical plot side view**

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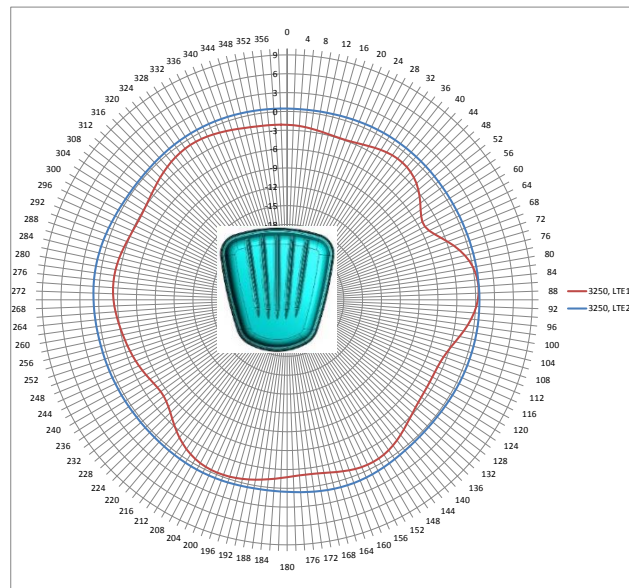
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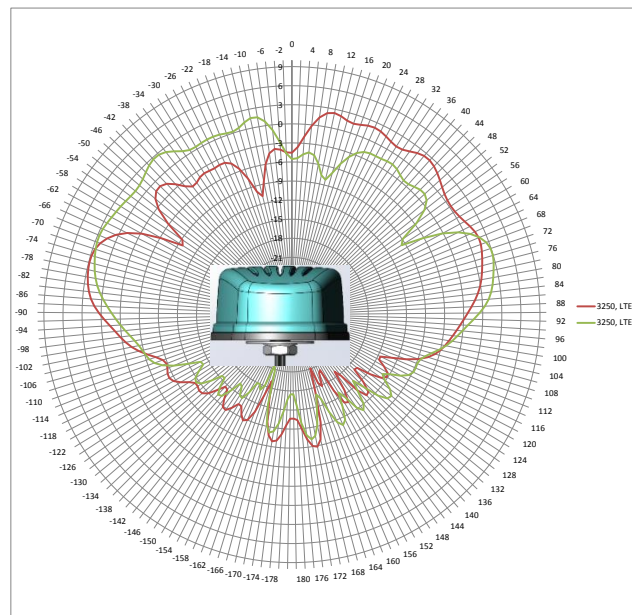
**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R**

## CHARTS

LTE antenna radiation pattern at 3250MHz with 2ft metal plate and 4inch cables



Horizontal plot



Vertical plot front view

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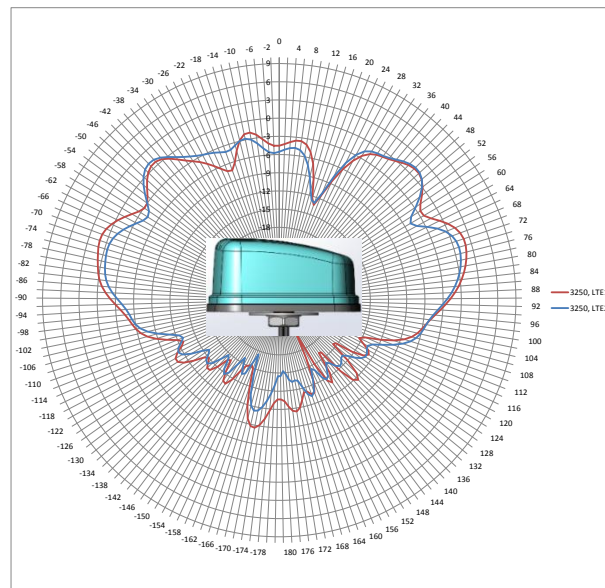
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**CHARTS**

**LTE antenna radiation pattern at 3250MHz with 2ft metal plate and  
4inch cables**



**Vertical plot side view**

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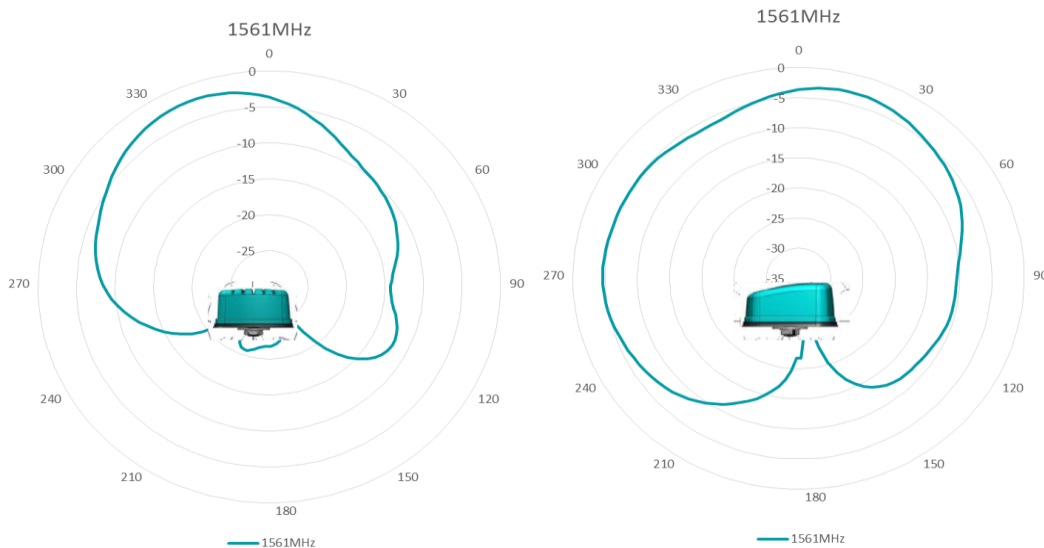
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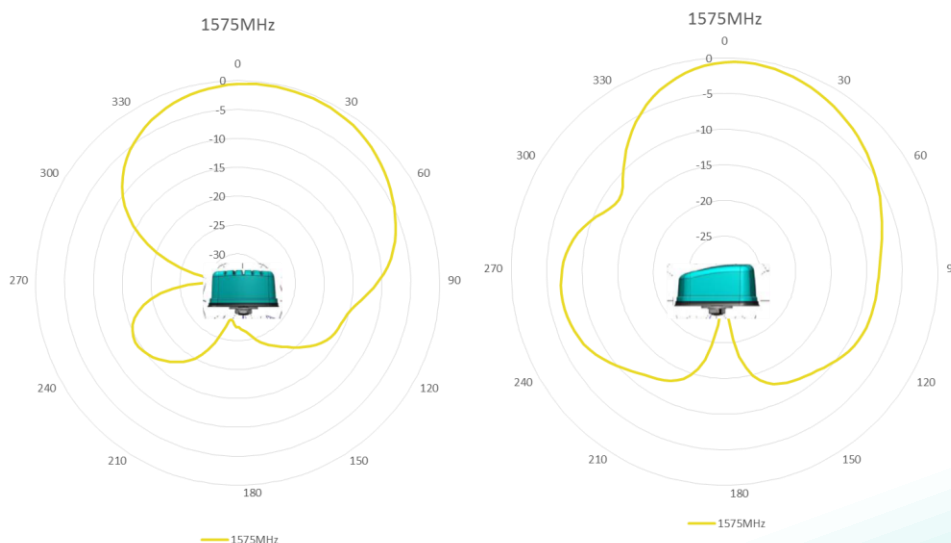
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

## CHARTS

BD2 RHCP patterns, measured with 4inch cables in free space



GPS & Galileo RHCP patterns, measured with 4inch cables in free space



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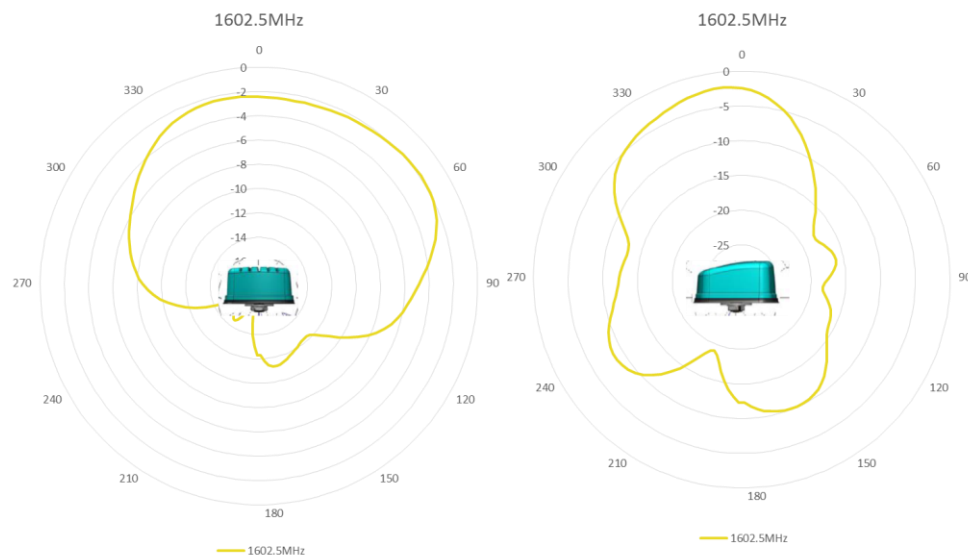
**Description: MiMo LTE, GNSS Vehicle Mount  
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**Series: Panther**

**PART NUMBER: GPSMB301, GPSMB302, GPSMB301R,  
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**CHARTS**

GLONASS RHCP patterns, measured with 4inch cables in free space



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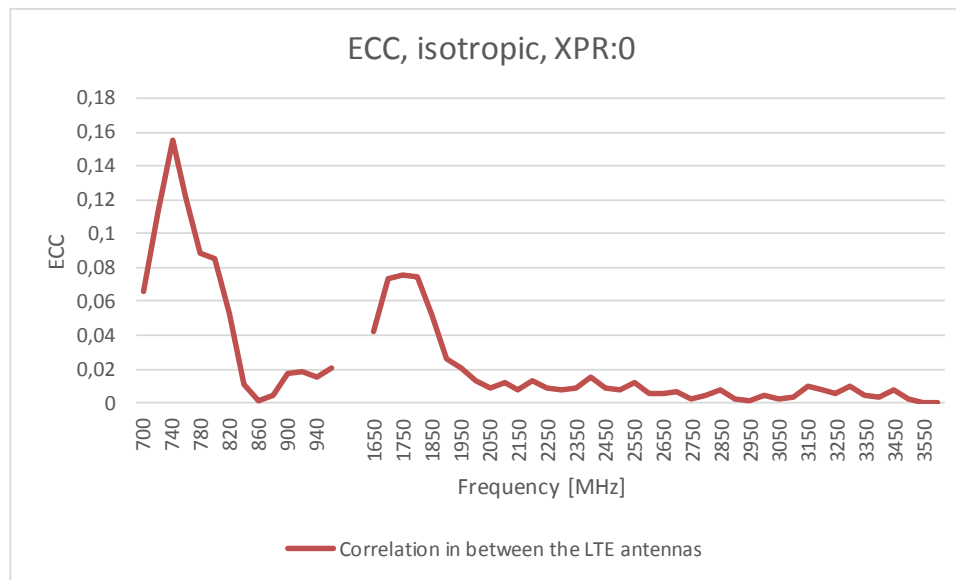
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## CHARTS

### Envelope correlation coefficient - LTE 1 to LTE 2



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GPSMB302R**

### PACKAGING

One antenna pack in one PE bag, 6 antennae in one box

Issue: 1823

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

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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