

Series: Panther
Description: MiMo LTE, GNSS Vehicle Mount Antenna
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 34th St Bldg 2 Suite 250

Vancouver, WA 98683

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



Series: Panther
Description: MiMo LTE, GNSS Vehicle Mount Antenna
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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Series: Panther
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PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R
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	dB _i ± 1 dB
Gain* (LTE antenna, > 2170 MHz)	5.5	dB _i ± 1 dB
Isolation LTE to LTE**	15 or better	dB
GNSS antenna RHCP gain	1	dB _{ic} ± 2 dB
LNA gain	30	dB ± 2 dB
Noise Figure	2.5 (cascade)	dB
Current	8	mA ± 2 mA
V _{dc}	3-5	V _{dc}
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
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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

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Tests for railroad certification per EN50155, EN61373, EN45545-2

NO	TEST 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	EN 50155	E17110014-01E	PASS
7	12.2.9	Insulation test			
8	12.2.10	Salt mist test			
9	12.2.11	Vibration	EN 61373	DD20170919002	PASS
10	12.2.12	Shock, and bump test	EN 61373		
11	12.2.14	Watertightness test	EN 50155		
12	/	Low temperature storage test	EN 50155	TC 18 02 000528	HL1&HL2
		fire & smoke	EN 45545-2 R15&R16		
			EN 45545-2 R15&R16	TC.18.04.001633	HL1&HL2&HL3

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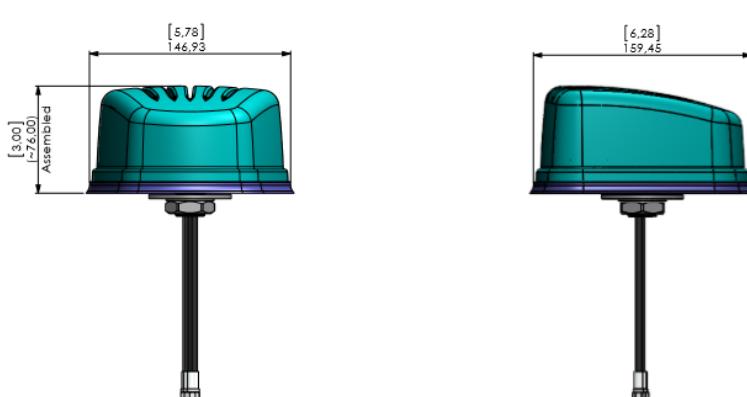


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Description: MiMo LTE, GNSS Vehicle Mount Antenna

PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

MECHANICAL DRAWING



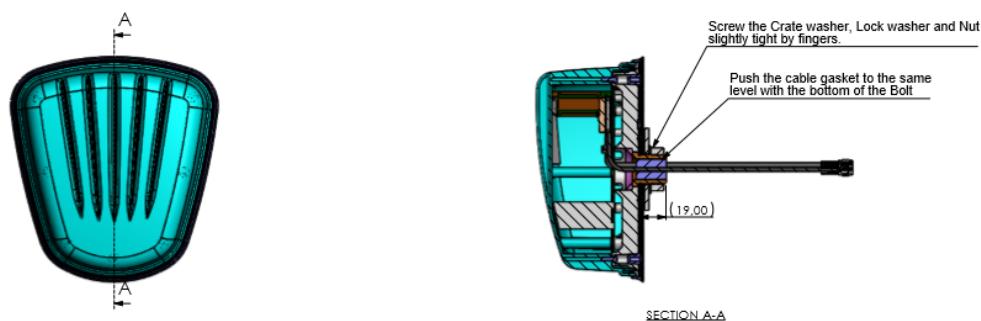
Tolerances of linear dimensions MEDIUM (0.0175mm)	
Dimension	Tolerance
0.5 - 1	± 0.1
1 - 3	± 0.2
4 - 30	± 0.3
30 - 100	± 0.5
120 - 400	± 0.8
400 - 1000	± 0.8
1000 - 2000	± 1.5
2000 - 4000	± 2

For nominal sizes below 0.5mm the tolerance applies for 0.5mm
and above for 1mm.

Tolerances of angular dimensions MEDIUM (0.0278mm)	
Dimension of angular dimensions (millimeter)	Tolerance
Up to 10	± 0.1°
10 - 90	± 0.3°
90 - 180	± 0.5°
180 - 400	± 0.8°
over 400	± 1.5°

Tolerances of radii and chamfers MEDIUM (0.0278mm)	
Radius / Chamfer height	Tolerance
0.5 - 3	± 0.2
3 - 6	± 0.3
Over 6	± 0.5

For nominal dimensions above 0.5mm the tolerances of the radii and chamfers are to be taken from the relevant nominal table.



SECTION A-A

No recycling plastics allowed to use.
Functional Characteristics key:
Process capacity studies required, total 0 gas.
Process capacity studies required and ongoing statistical process control required, total 0 gas.

Pulse Horizon Co Folsom 4 PO BOX 733-733-5020 Fax: +1 888 237 733 501 www.pulseelectronics.com/antennas	Sheet number 1/2	General Tolerance	
Customer number			
State	Drawn	12.09.2015	
	Check		
Product	Approved		
Product ID GPSMB301	Part Version A	Document Revision A	Document Revision A
Document number GPSMB301	From Name Antenna Assembly	To Name Janko	Issue Date 18.09.2015
			P1.1 02.07.2015 Janko
			Mod Date

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Please follow Pulse Limit of hazardous substances (RoHS, halogen) in the document "Pulse Hazardous Substances (HS) Limit and Vendor Survey" (Customer, Material Compliant) (SCH-SAP-0202)

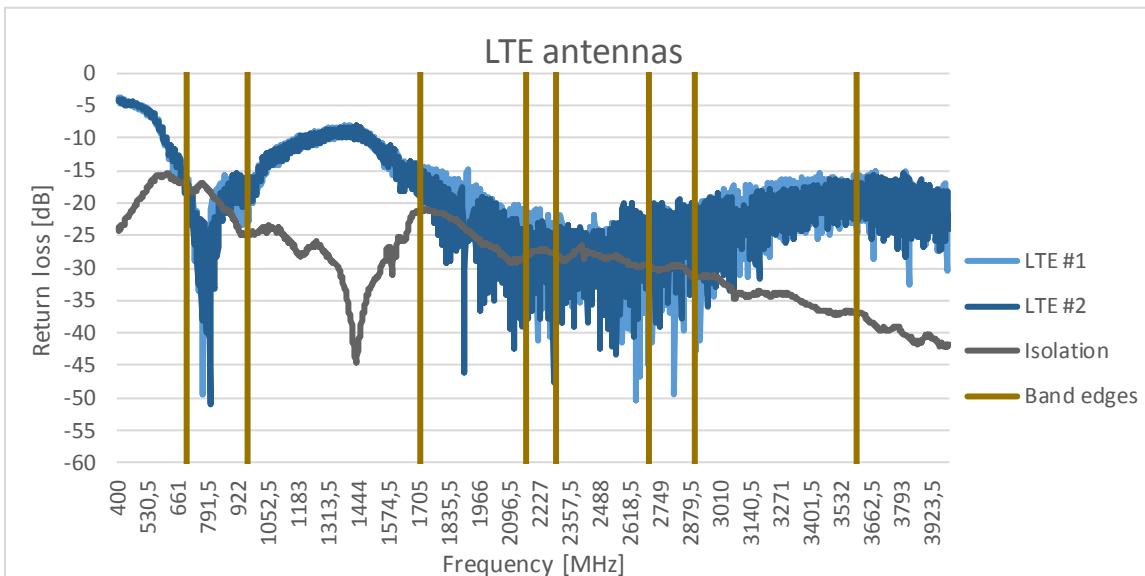
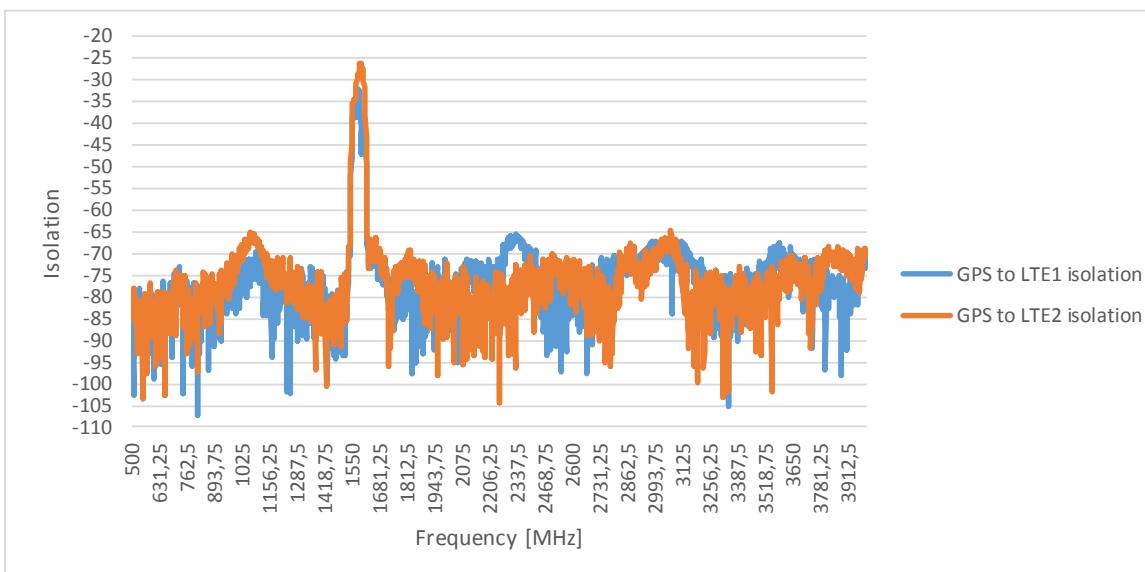
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CHARTS
Return loss and isolation in free space, LTE antennas**

GNSS isolation to LTE 1 and LTE 2 antenna*

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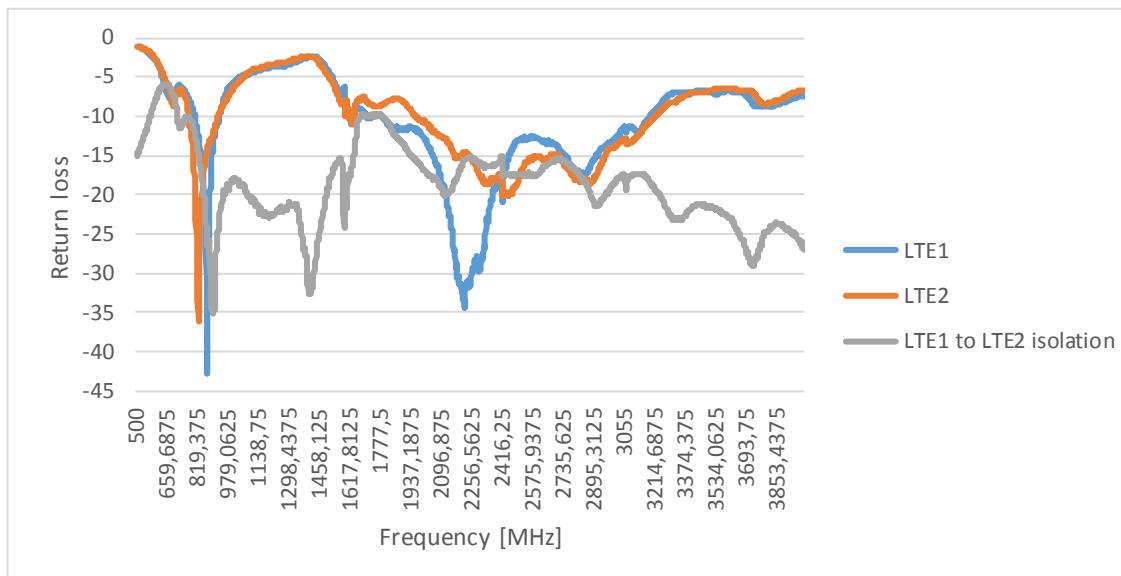
Series: Panther

Description: MiMo LTE, GNSS Vehicle Mount Antenna

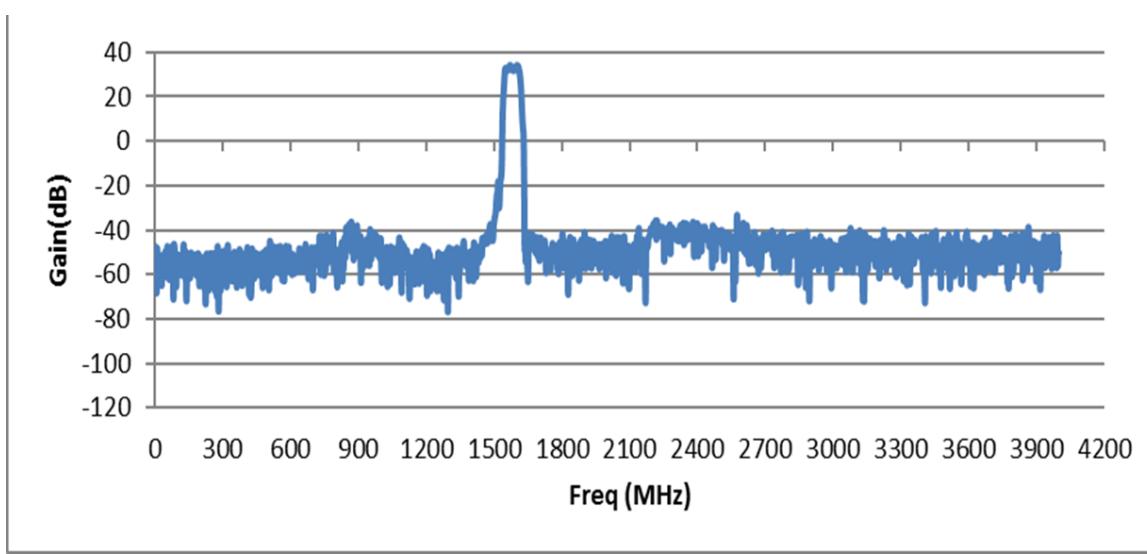
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

Return loss and isolation, LTE antennas*



GNSS LNA performance



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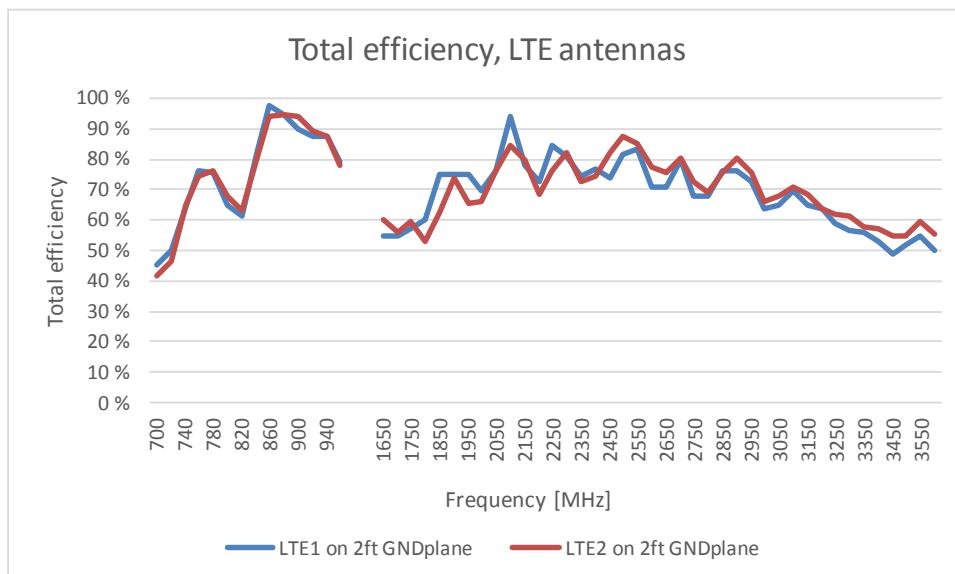
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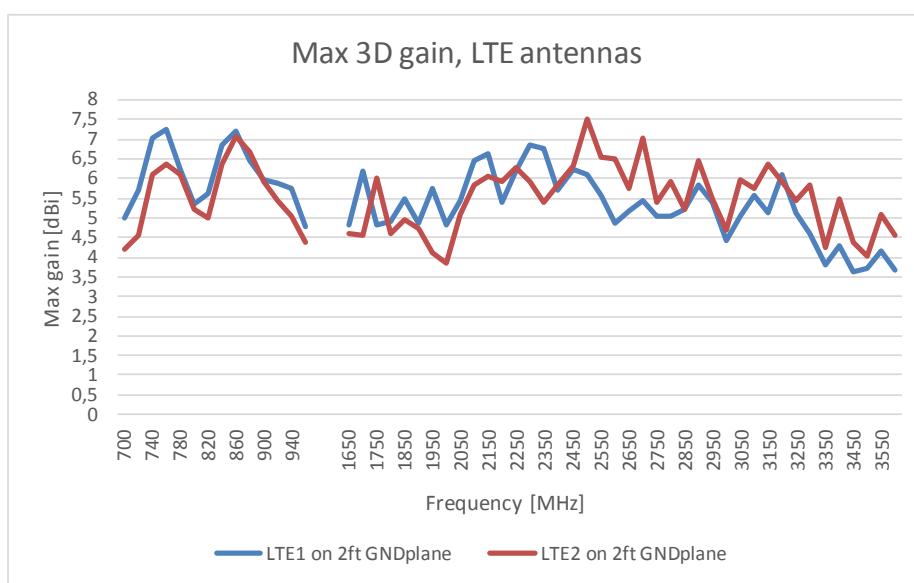
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CHARTS

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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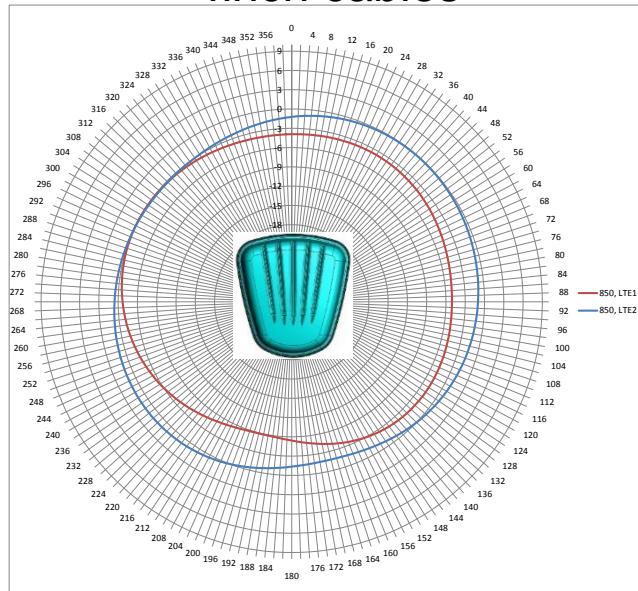
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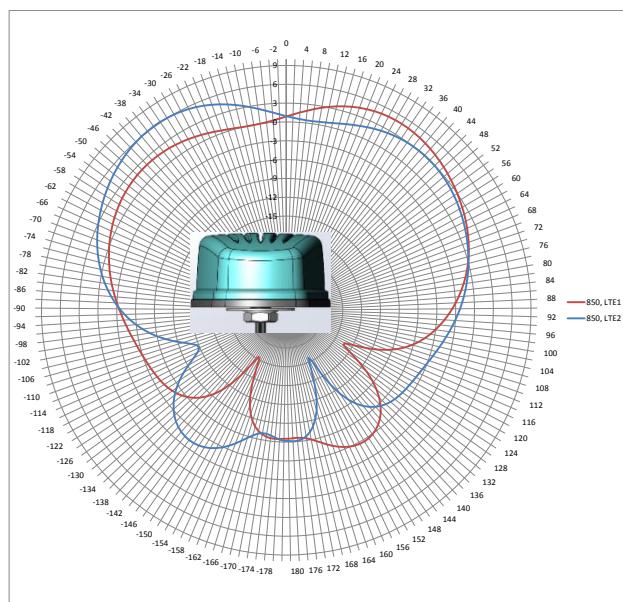
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Description: MiMo LTE, GNSS Vehicle Mount Antenna
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CHARTS

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



Horizontal plot



Vertical plot front view

Issue: 1823

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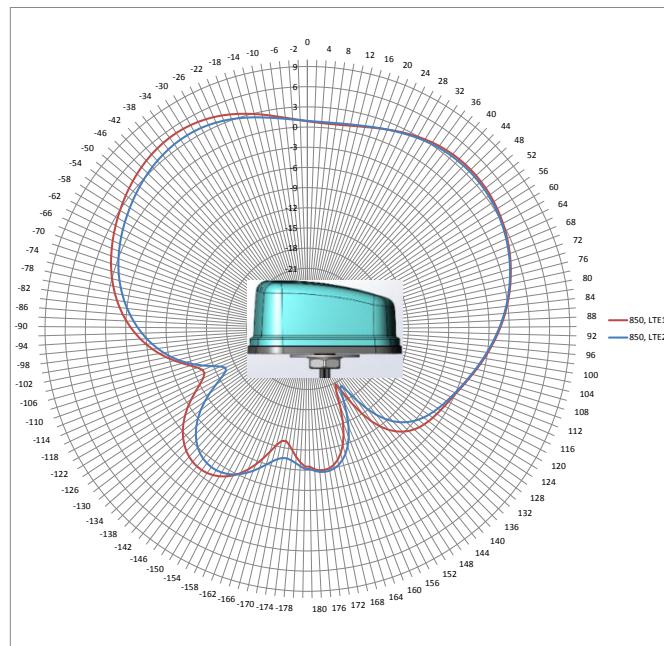
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CHARTS

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



Vertical plot side view

Issue: 1823

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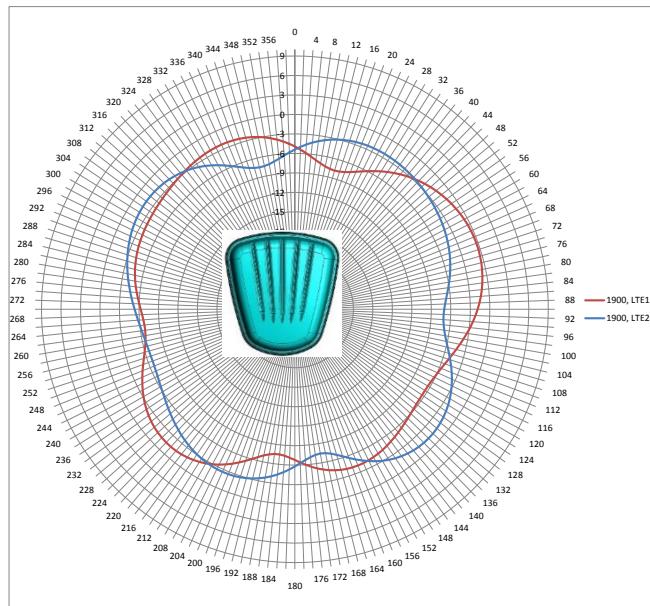
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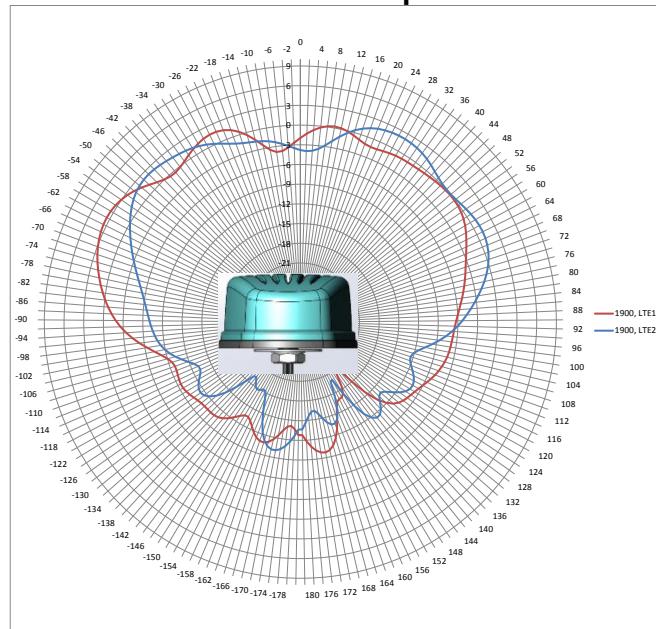
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

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



Horizontal plot



Vertical plot front view

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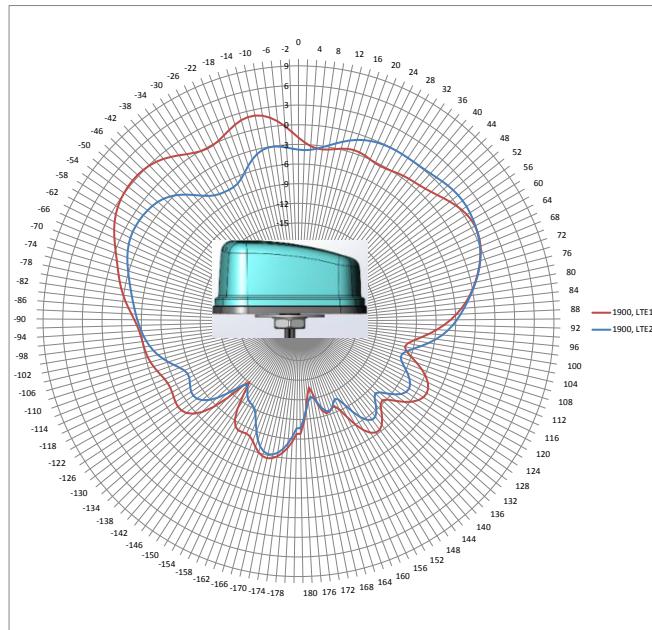
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CHARTS

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



Vertical plot side view

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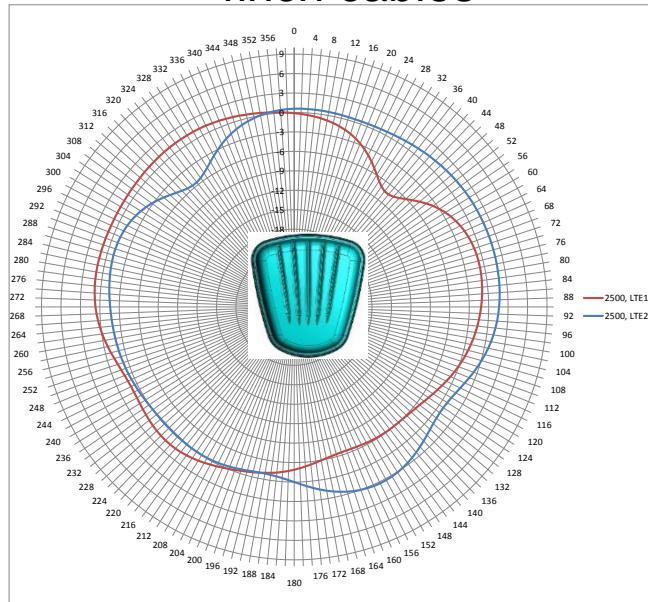
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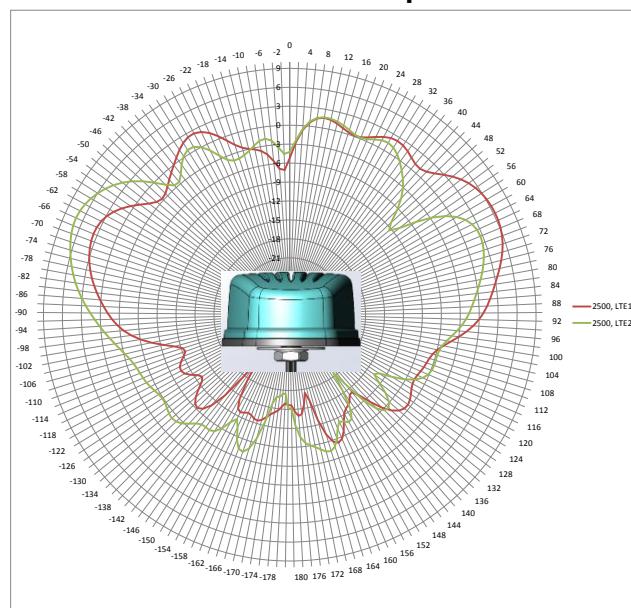
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

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



Horizontal plot



Vertical plot front view

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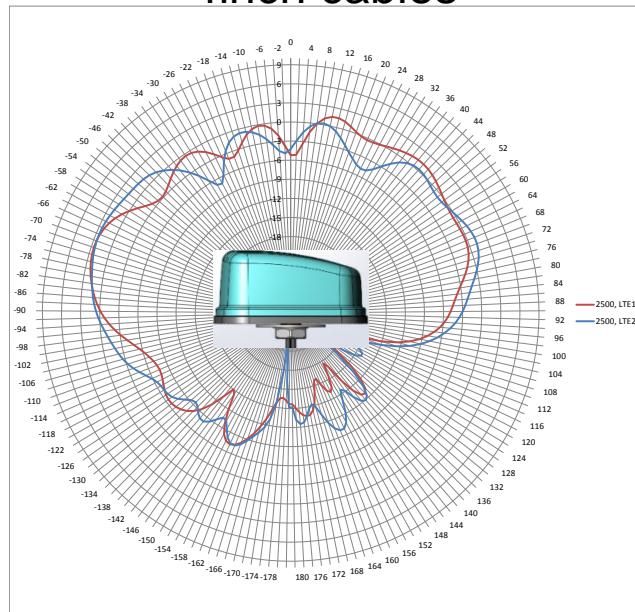
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Description: MiMo LTE, GNSS Vehicle Mount Antenna

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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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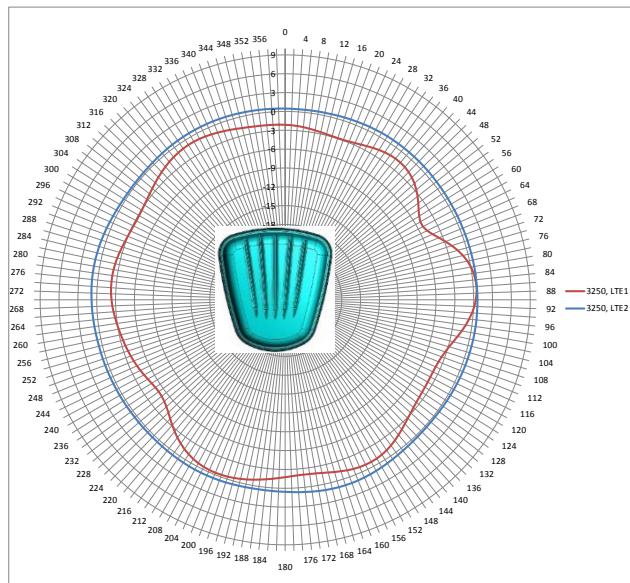
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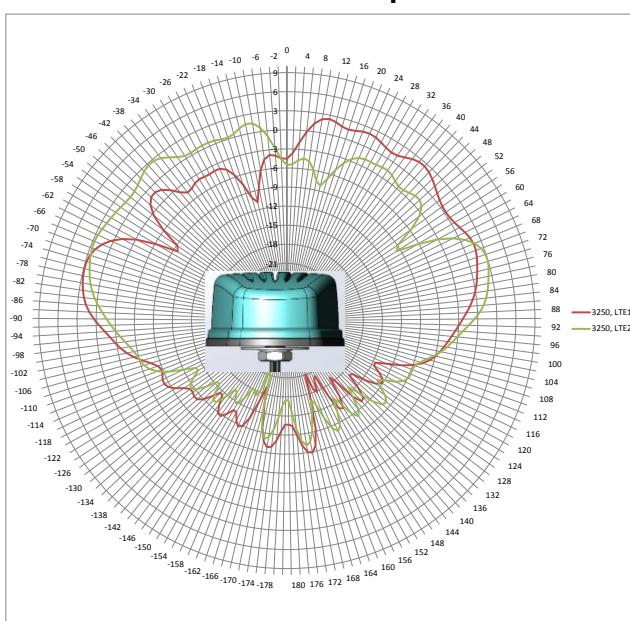
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

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



Horizontal plot



Vertical plot front view

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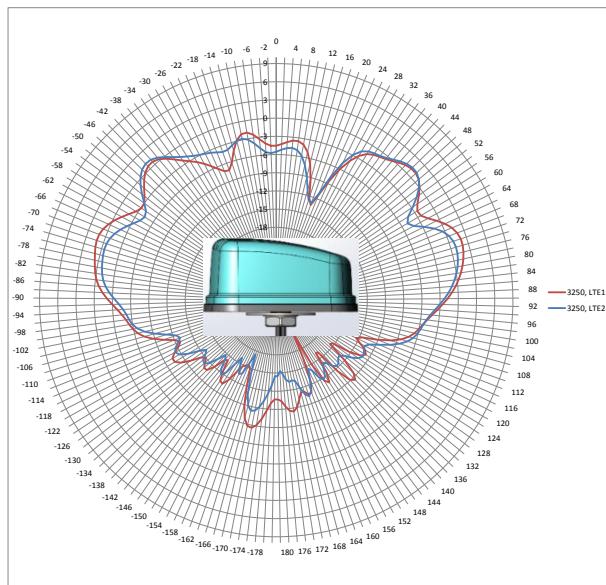
Series: Panther

Description: MiMo LTE, GNSS Vehicle Mount Antenna

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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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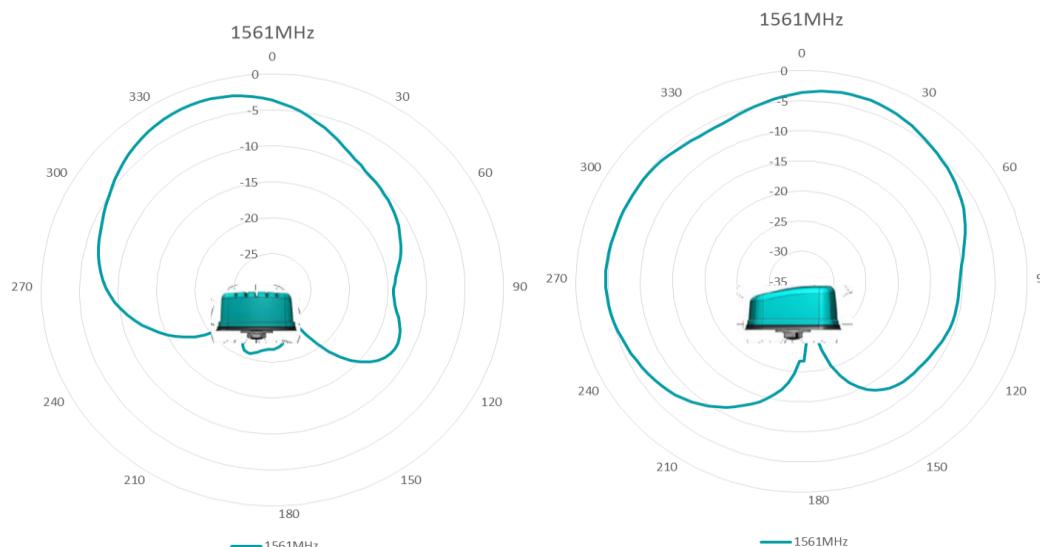
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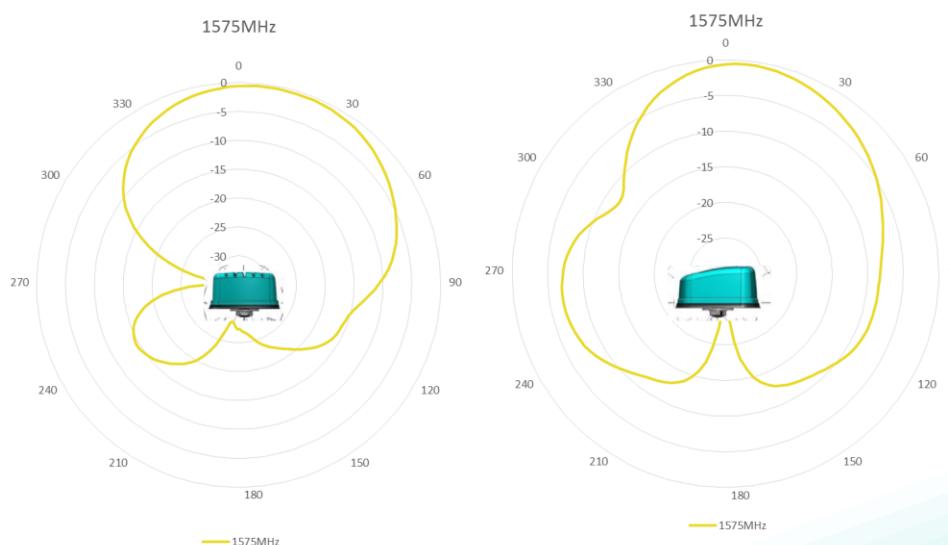
PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

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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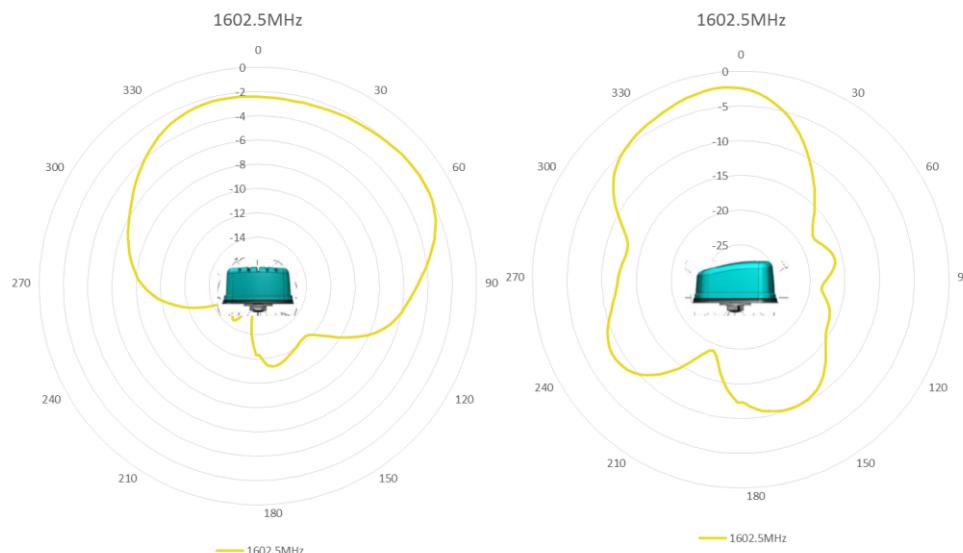
Series: Panther

Description: MiMo LTE, GNSS Vehicle Mount Antenna

PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

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



Issue: 1823

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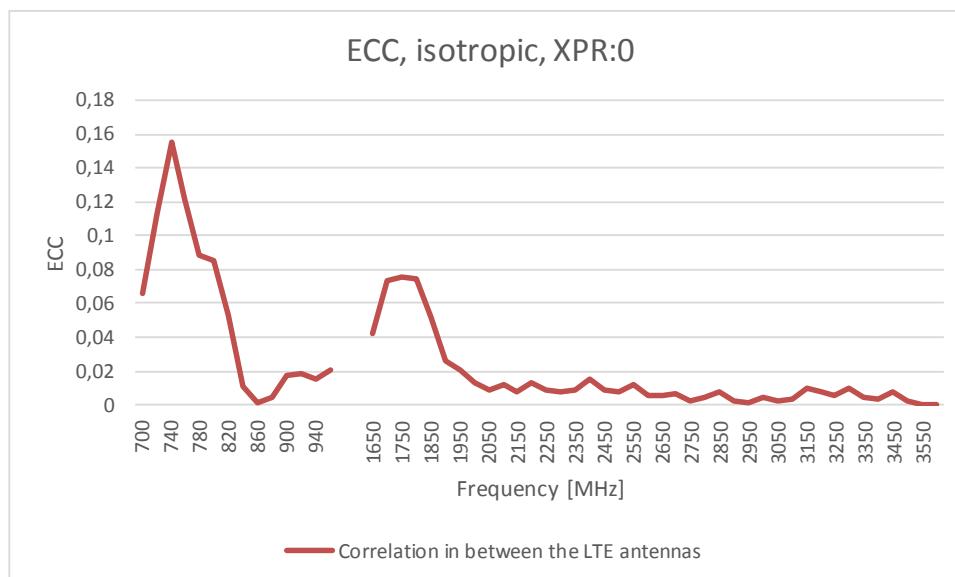
Series: Panther

Description: MiMo LTE, GNSS Vehicle Mount Antenna

PART NUMBER: GPSMB301, GPSMB302, GPSMB301R, GPSMB302R

CHARTS

Envelope correlation coefficient - LTE 1 to LTE 2



Issue: 1823

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

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

Issue: 1823

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Океан Электроники

Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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 дистрибутором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибутором 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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