

Description: GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi
Magnetic Mount

Series: RAZORBACK

PART NUMBER: RAZ32011MM, RAZ32012MM, RAZ42111MM,
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM



RAZ62311MM (Black)



RAZ62312MM (White)

Features:

- 2x LTE 644-2700MHz (MiMo)
- 0, 1x, 2x or 3x WiFi 2.4/5GHz
- DSRC
- GNSS Active:
 - Beidou, GPS, Glonass
 - RHCP polarization
 - Amplifier Gain 30dBi
- Size: 89.2 x 195.1 x 94.7mm
3.51 x 7.68 x 3.73 in
- Power withstanding 45W
- Available Models
 - RAZ32011MM = 3 Cable, Black
 - RAZ32012MM = 3 Cable, White
 - RAZ42111MM = 4 Cable, Black
 - RAZ42112MM = 4 Cable, White
 - RAZ52211MM = 5 Cable, Black
 - RAZ52212MM = 5 Cable, White
 - RAZ62311MM = 6 Cable, Black
 - RAZ62312MM = 6 Cable, White

Applications:

- Vehicular use Telematics
- Fleet management
- Trucking
- Navigation, GIS and survey
- Public safety
- Search and Rescue
- Metering, Utility boxes

Issue: 1742

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Herrenberg, Germany
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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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ELECTRICAL SPECIFICATIONS

Antenna Type	Monopole, measured on Ø1.02m (40") ground plane
Frequency (2x LTE)	644-960/1710-2700 MHz
Frequency (1x, 2x or 3x WiFi)	2400-2500/4900-5925 MHz
Nominal Impedance	50 Ω
VSWR	2:1
Radiation Pattern	Omni
HPBW / Vertical Plane (LTE, 644-960)	42°
HPBW / Vertical Plane (LTE, 1710-2700)	31°
HPBW / Vertical Plane (WIFI, 2400-2500)	25°
HPBW / Vertical Plane (WIFI, 4900-5925)	20°
Polarization	Vertical
Average Peak Gain (LTE, 644-960) (LTE, 1710-2700)	4.6/4.9 dBi
Average Peak Gain (WIFI, 2400-2500) (WIFI, 4900-5925)	6/6.6 dBi
Isolation (LTE1 to LTE2)	<-13
Isolation (WiF11/2, WiF2/3 & WiF11/3)	<-13
Average Efficiency (LTE)	67 %
Average Efficiency (WiFi)	57 %
Power Withstanding	45 W
GNSS Beidou-GPS-Glonass	
Frequency	1561.098±2.046,1575.42±1.023,1602.5625±4 MHz
VSWR	2:1
Nominal Impedance	50 Ω
Gain (Radiating element)	1 dBic +/- 1dB
Gain (LNA gain)	30 dB +/- 2 dB
Polarization	RHCP

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ELECTRICAL SPECIFICATIONS

Out of Band Rejection	960MHz >65 dB, 1710MHz >60 dB, 2170MHz >65 dB, 2400MHz >65 dB
Noise Figure	< 2.4dB
Operating Voltage	3.3 - 5 Vdc $\pm$ 0.5 V
Current Consumption	< 11 mA

MECHANICAL SPECIFICATIONS

Length/Height/Width	195.1mm (7.68")/94.7 (3.73")/89.2mm (3.51")
Weight	856 g (1.9 lbs)
Antenna Color / Material	Black or White / PC/ABS, UV protected
Cable / Connector	2x LTE, 5.2m (17') LMR-195/SMA-Male 1x, 2x or 3x WiFi, 5.2m (17') LMR-195/RP-SMA-Male GNSS, 5.2m (17') RG-174/SMA-Male
Mounting Configuration	Magnetic Mount

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40/+85° C
Ingress Protection	IP67
RoHS Compliant	Yes

OTHER SPECIFICATIONS

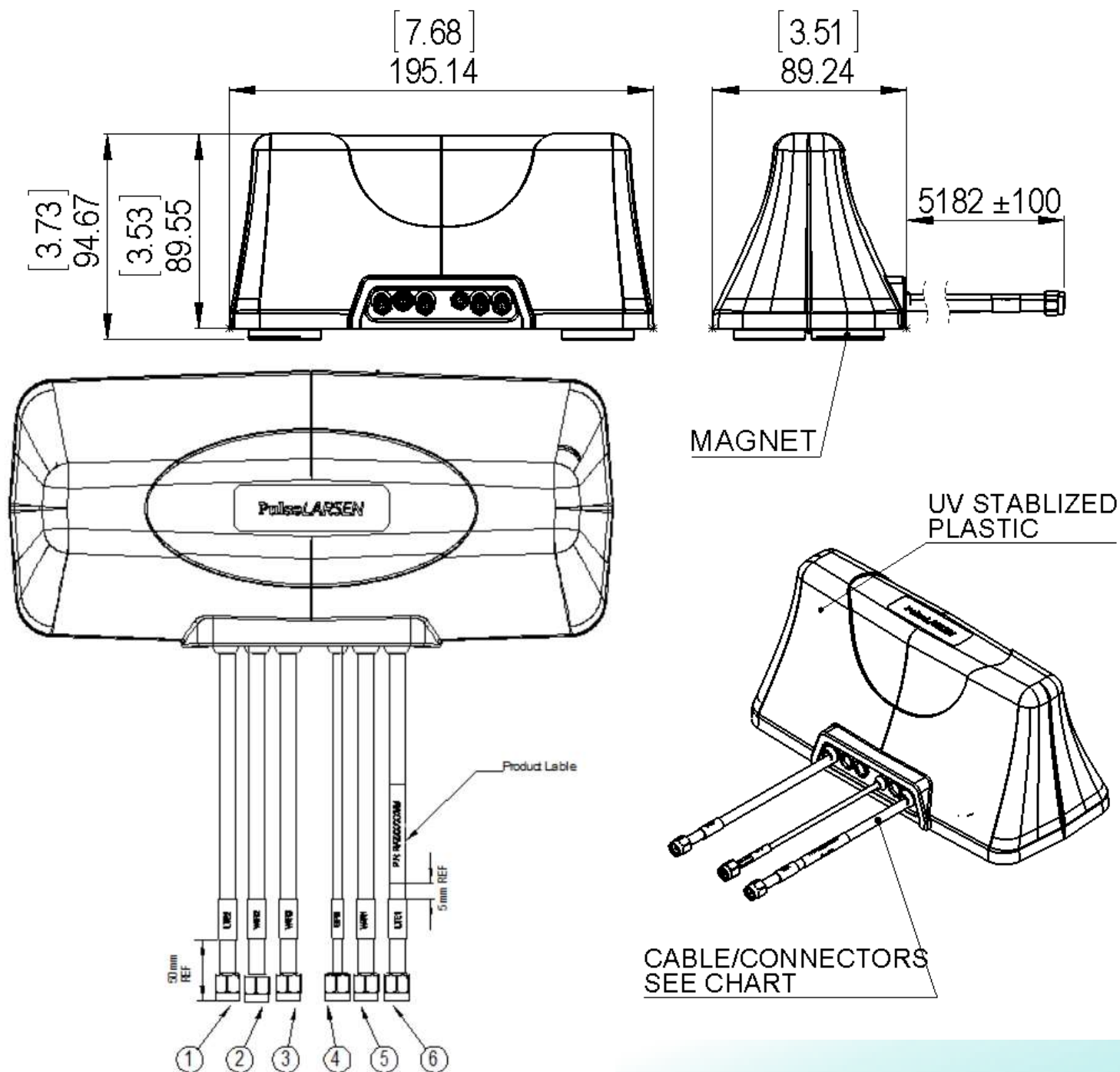
Total cable assembly loss for 5.2m (17') LMR-195 @ 850MHz	2.1 dB
Total cable assembly loss for 5.2m (17') RG-174 @ 1575MHz	6.0 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 1930MHz	3.2 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 2500MHz	3.7 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 2450MHz	3.6 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 5350MHz	5.5 dB

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MECHANICAL DRAWING



All dimensions are in mm / inches

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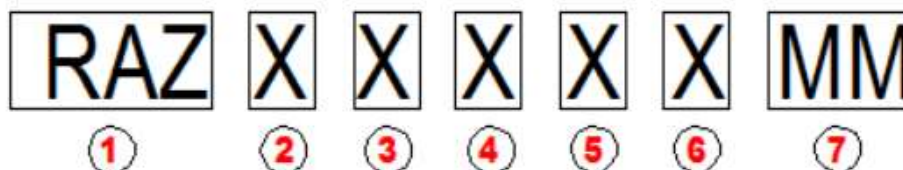
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MECHANICAL DRAWING

Vehicular Multiband Antenna with Magnet Mount

(Part Number)



①	Product ID: RAZORBACK
②	Total Number of Cable leads
③	Total Number of LTE Cable Leads
④	Total Number of WiFi Cable Leads
⑤	Total Number of GPS Cable Leads
⑥	The Color of the Plastic Housing 1=Black; 2=White
⑦	Mounting: Magnet Mount

RAZXXXXXMM		CABLE	CABLE LENGTH	CONNECTOR
1	LTE-2 Cable Assy	LMR195	5181 mm / 204" / 17 FT	SMA Male
2	WiFi-2 Cable Assy			RP-SMA Male
3	WiFi-3 Cable Assy			
4	GPS Cable Assy	RG-174		SMA Male
5	WiFi-1Cable Assy	LMR195		RP-SMA Male
6	LTE1 Cable Assy			SMA Male

All dimensions are in mm / inches

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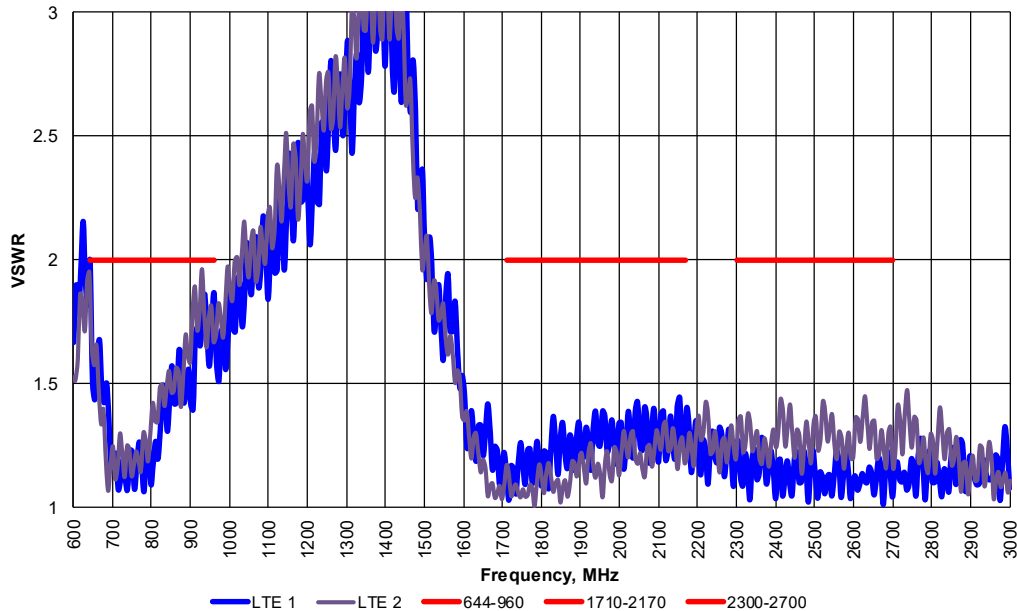
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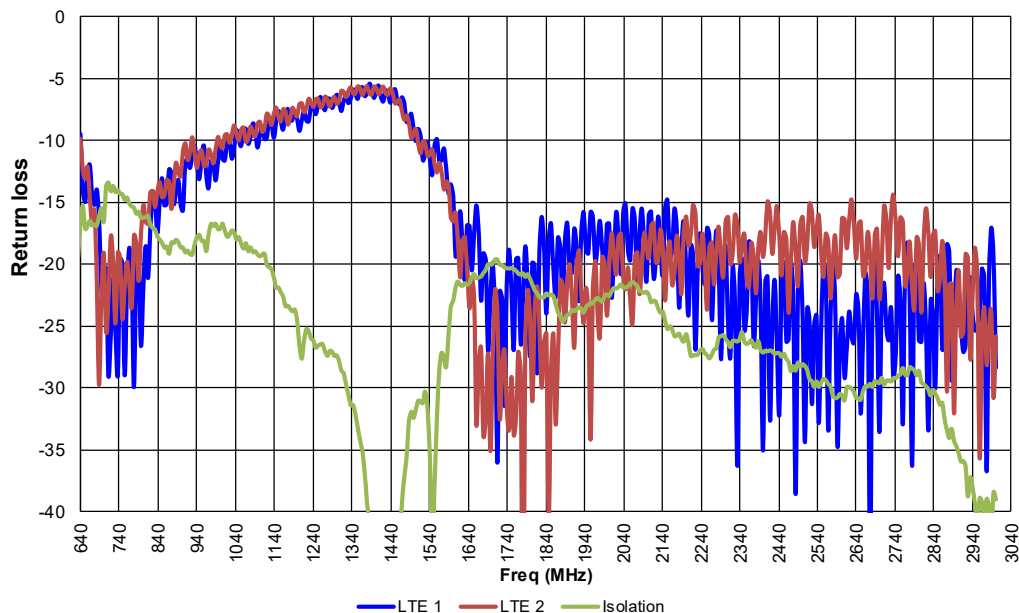
CHARTS

VSWR vs Frequency
RAZ62311MM Measured with 17' cables on Ø40" GP
Measured at Pulse, USA - July 07, 2017



LTE 1 & 2
Measured with 5.2m
(17') cable

Return loss vs Frequency
RAZ62311MM Measured with 17' cables on Ø40" GP
Measured at Pulse, USA - July 07, 2017



LTE 1 & 2
Measured with 5.2m
(17') cable

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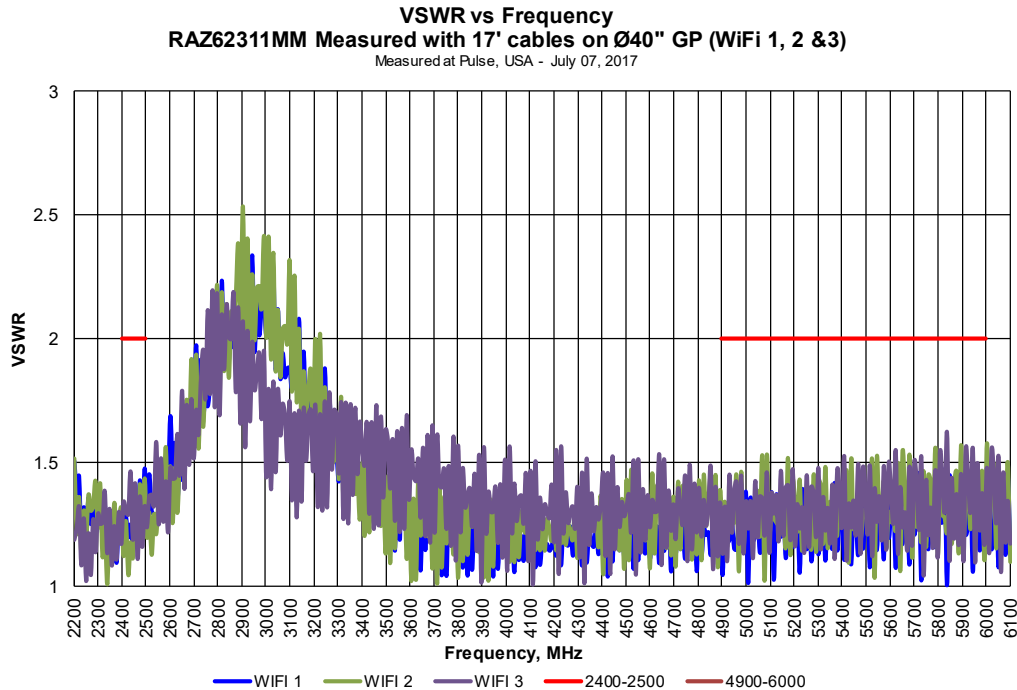
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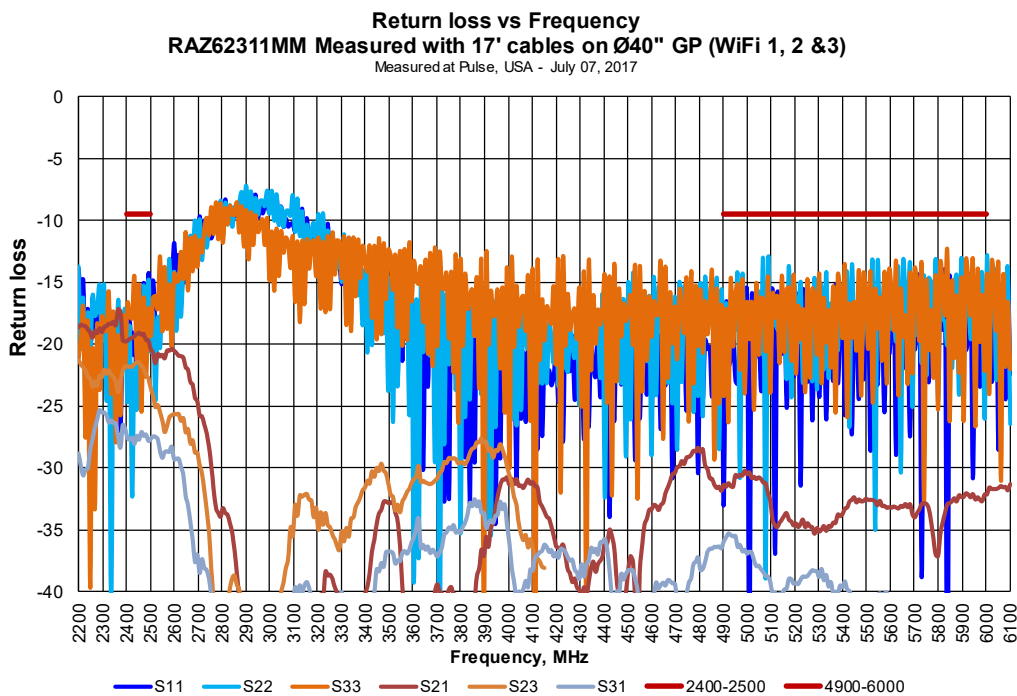
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CHARTS

WiFi 1, 2 & 3
Measured with 5.2m
(17') cable



WiFi 1, 2 & 3
Measured with 5.2m
(17') cable



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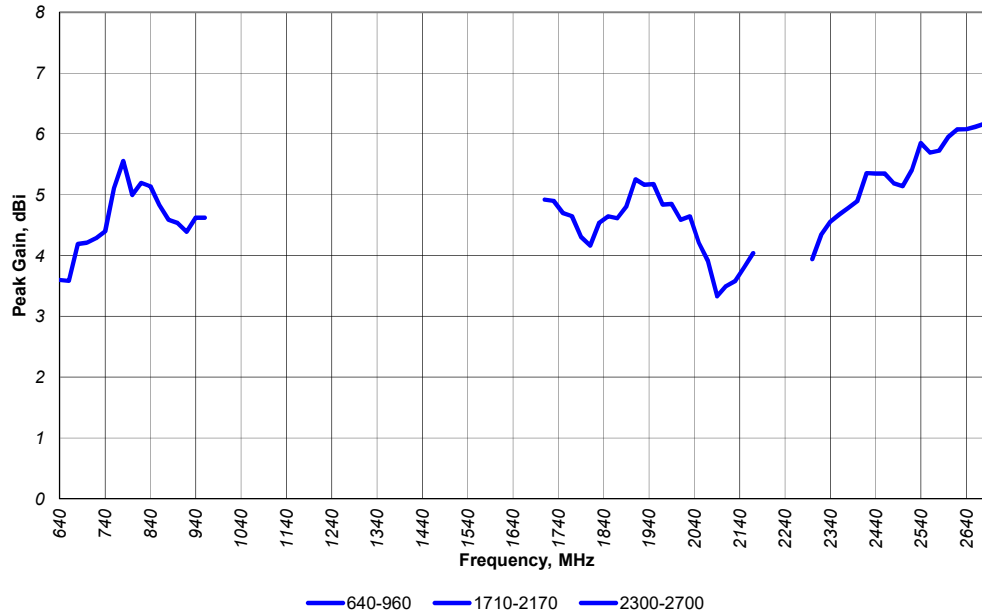
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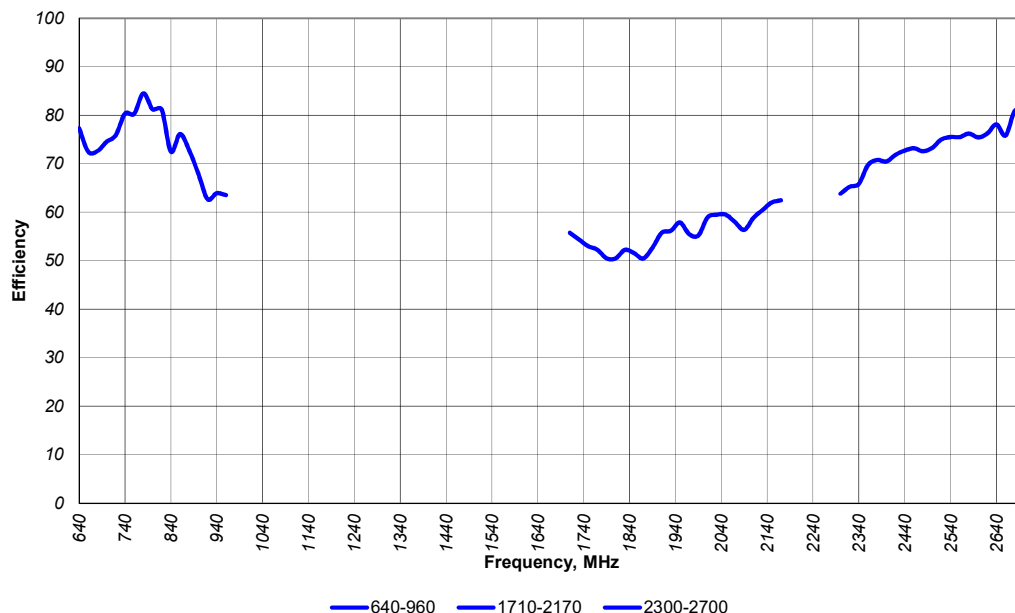
Peak Gain vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 1)
Measured at Pulse, USA - July 07, 2017



LTE 1

Measured with
914mm (36") cable

Efficiency vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 1)
Measured at Pulse, USA - July 07, 2017



LTE 1

Measured with
914mm (36") cable

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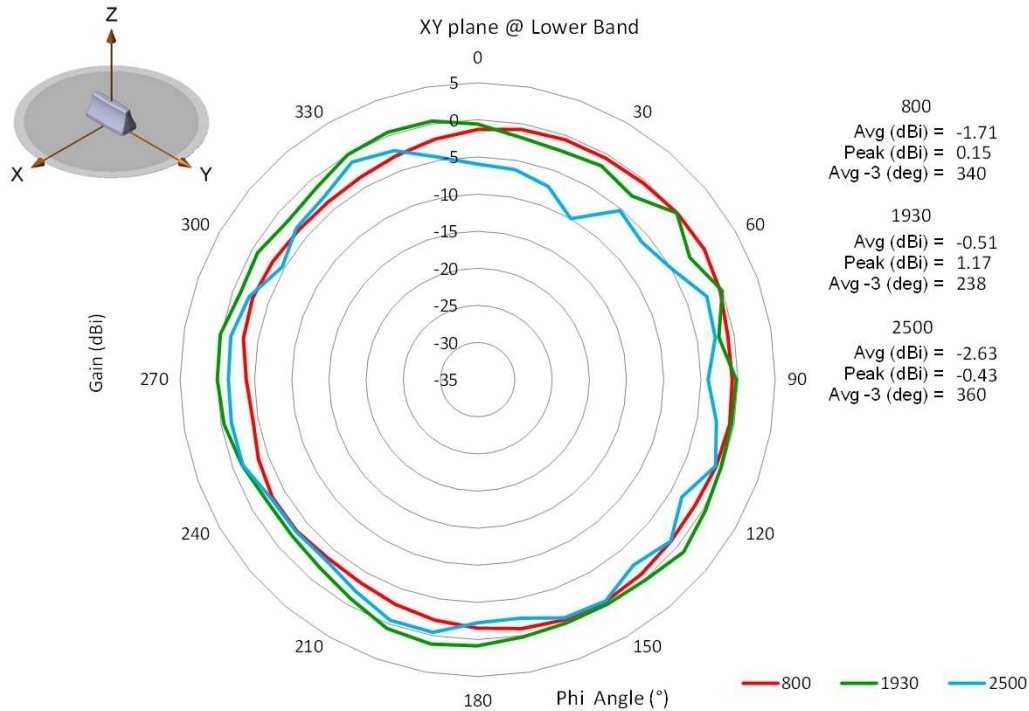
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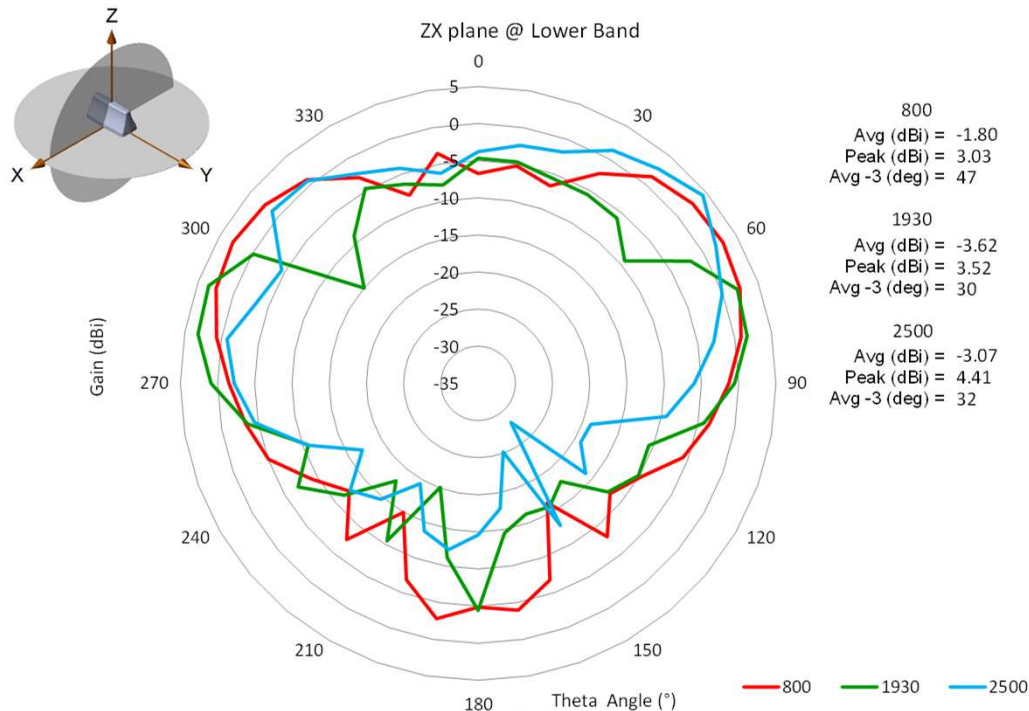
LTE 1

Measured with
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LTE 1

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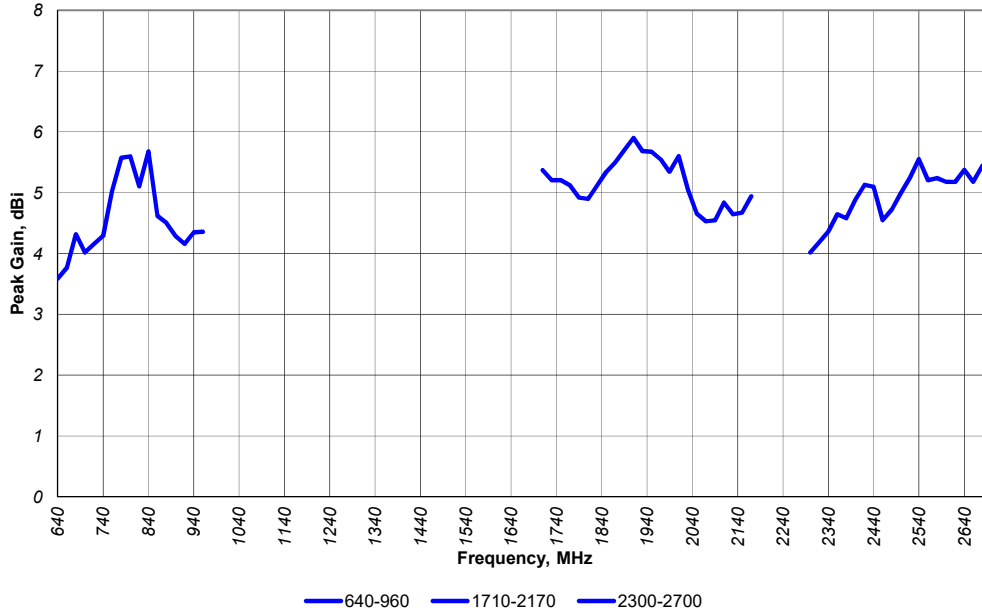
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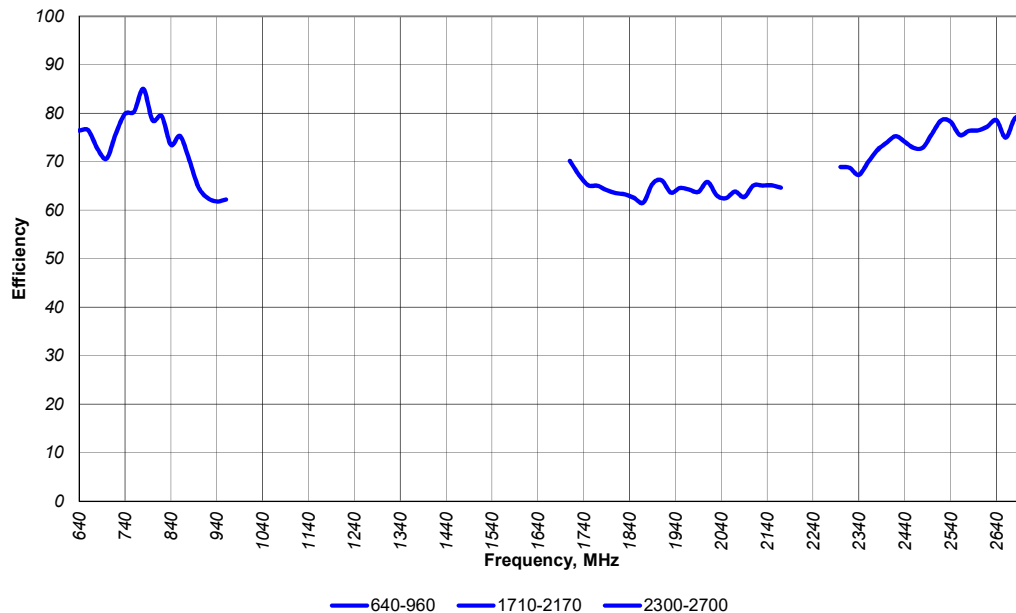
CHARTS

Peak Gain vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 2)
Measured at Pulse, USA - July 07, 2017



LTE 2
Measured with
914mm (36") cable

Efficiency vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 2)
Measured at Pulse, USA - July 07, 2017



LTE 2
Measured with
914mm (36") cable

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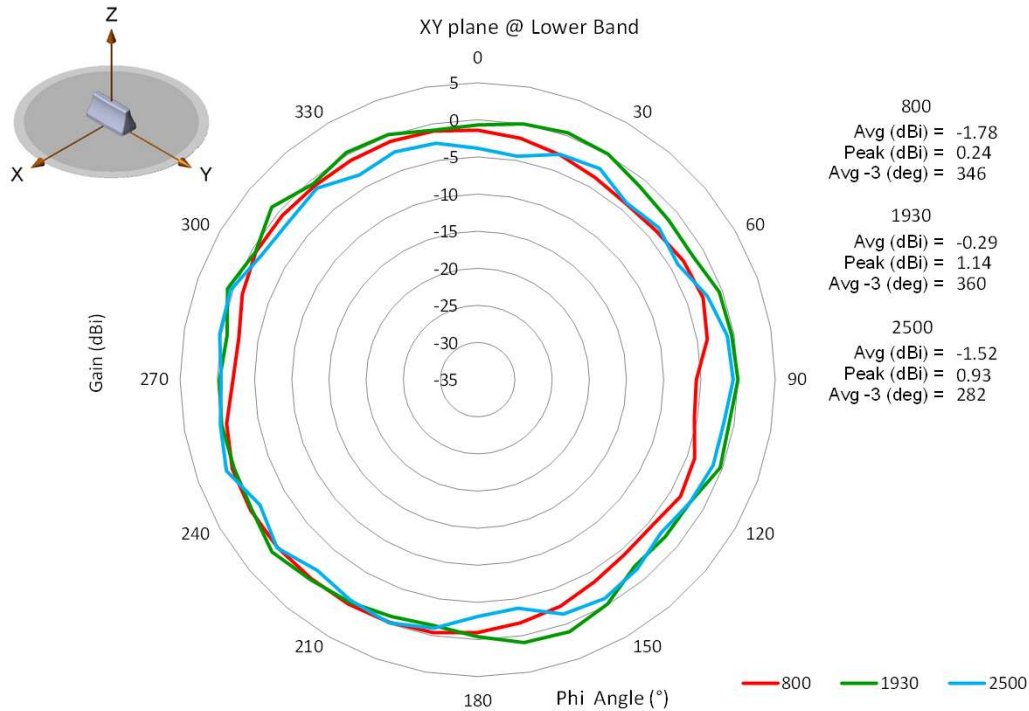
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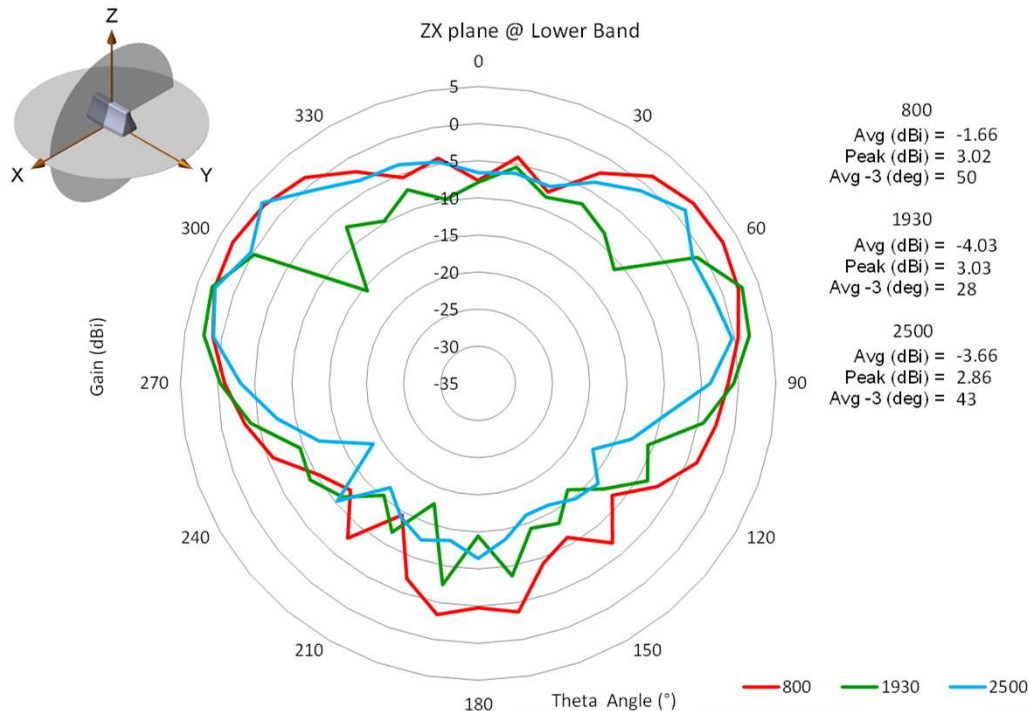
LTE 2

Measured with
914mm (36") cable



LTE 2

Measured with
914mm (36") cable



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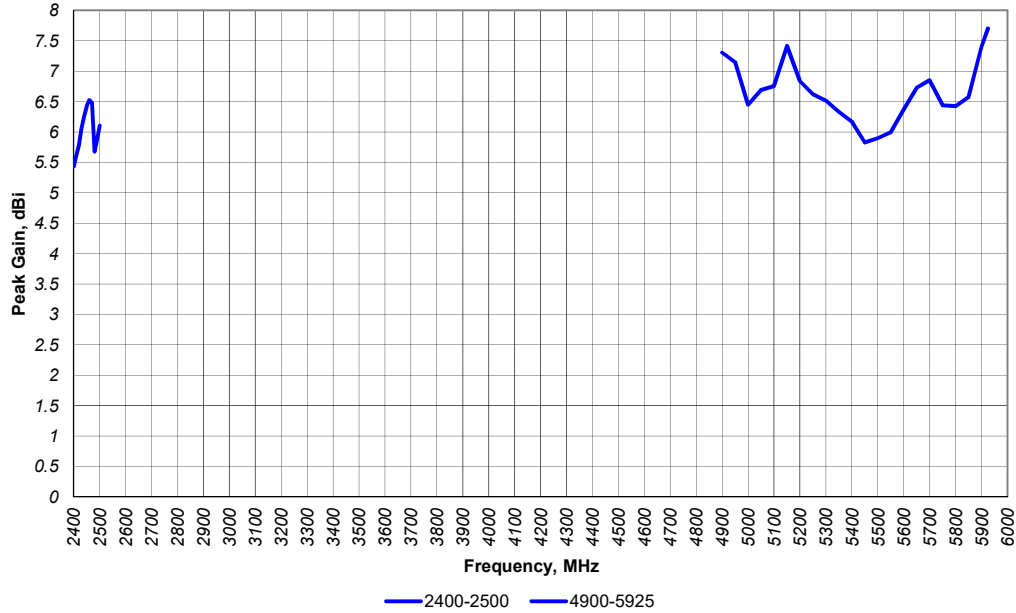
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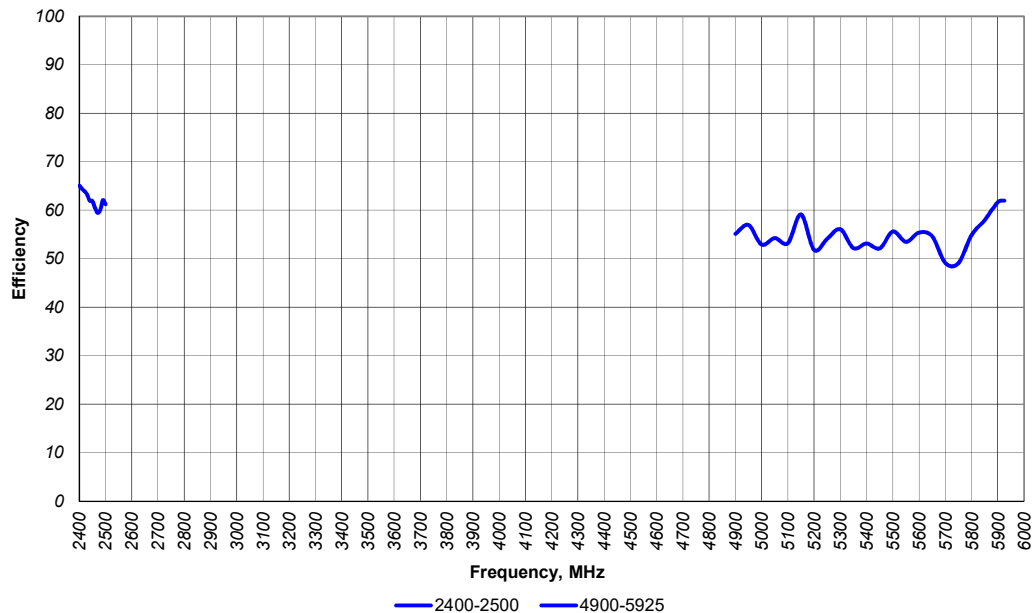
Peak Gain vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 1)
Measured at Pulse, USA - July 07, 2017



WiFi 1

Measured with
914mm (36") cable

Efficiency vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 1)
Measured at Pulse, USA - July 07, 2017



WiFi 1

Measured with
914mm (36") cable

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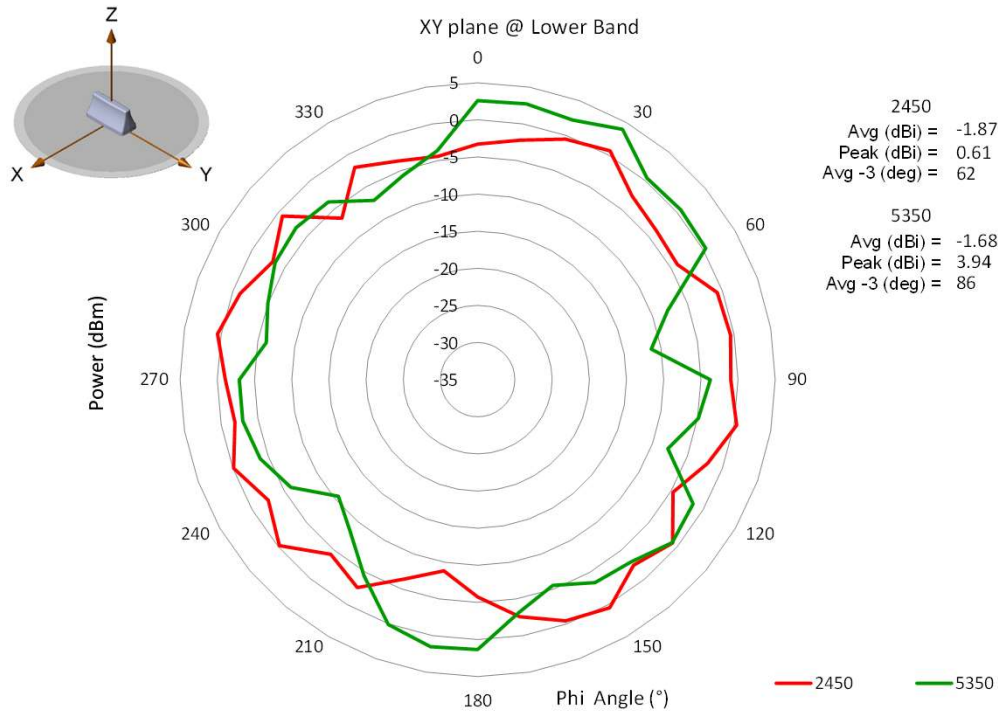
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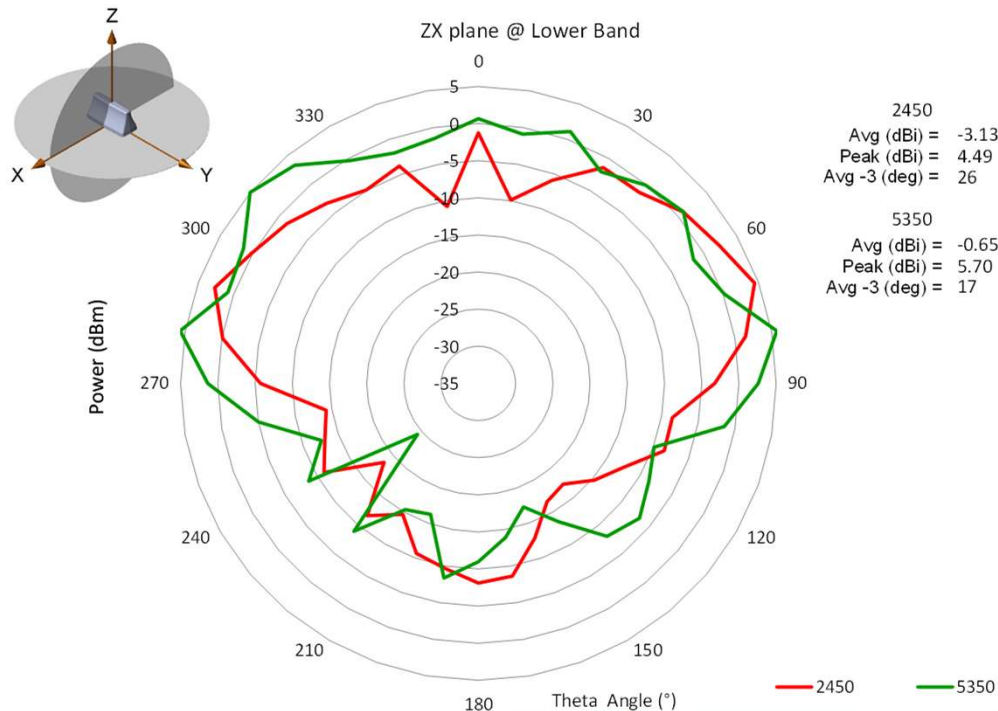
WiFi 1

Measured with
914mm (36") cable



WiFi 1

Measured with
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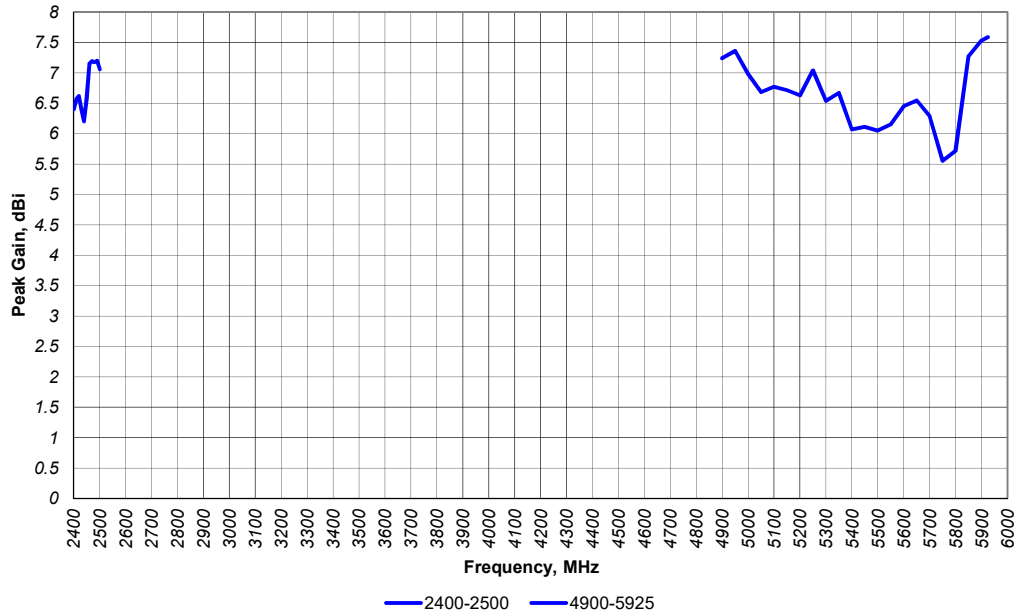
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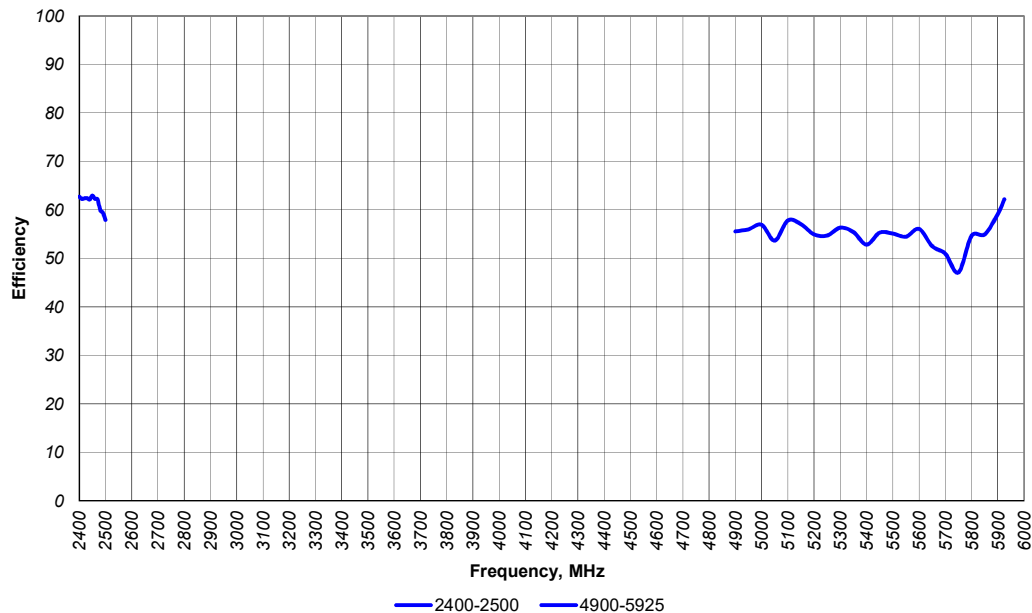
CHARTS

Peak Gain vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 2)
Measured at Pulse, USA - July 07, 2017



WiFi 2
Measured with
914mm (36") cable

Efficiency vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 2)
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WiFi 2
Measured with
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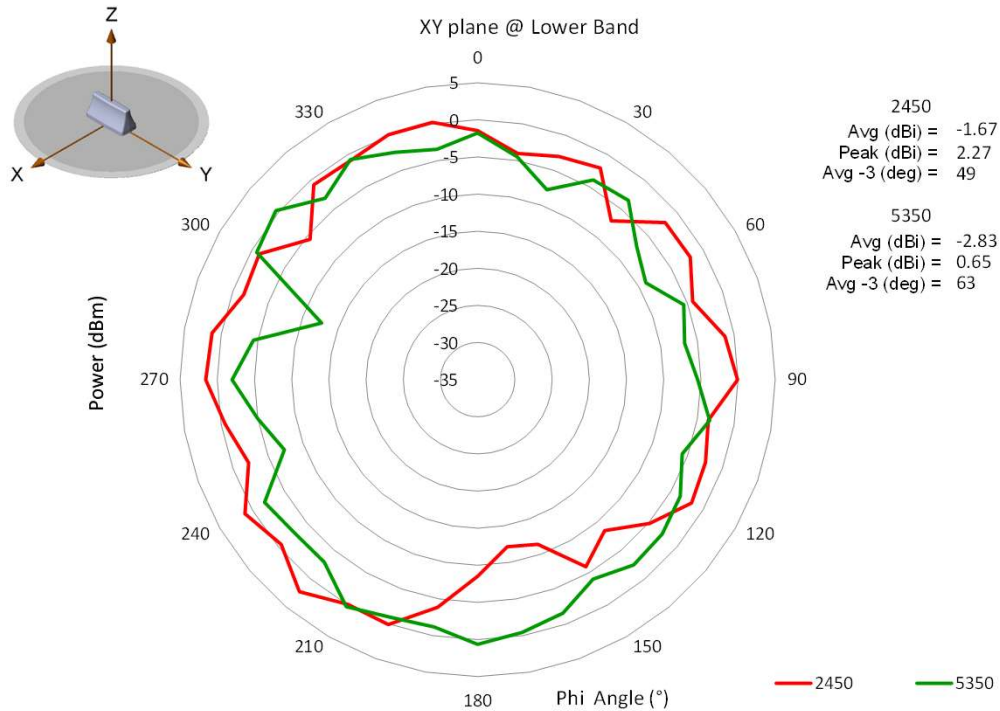
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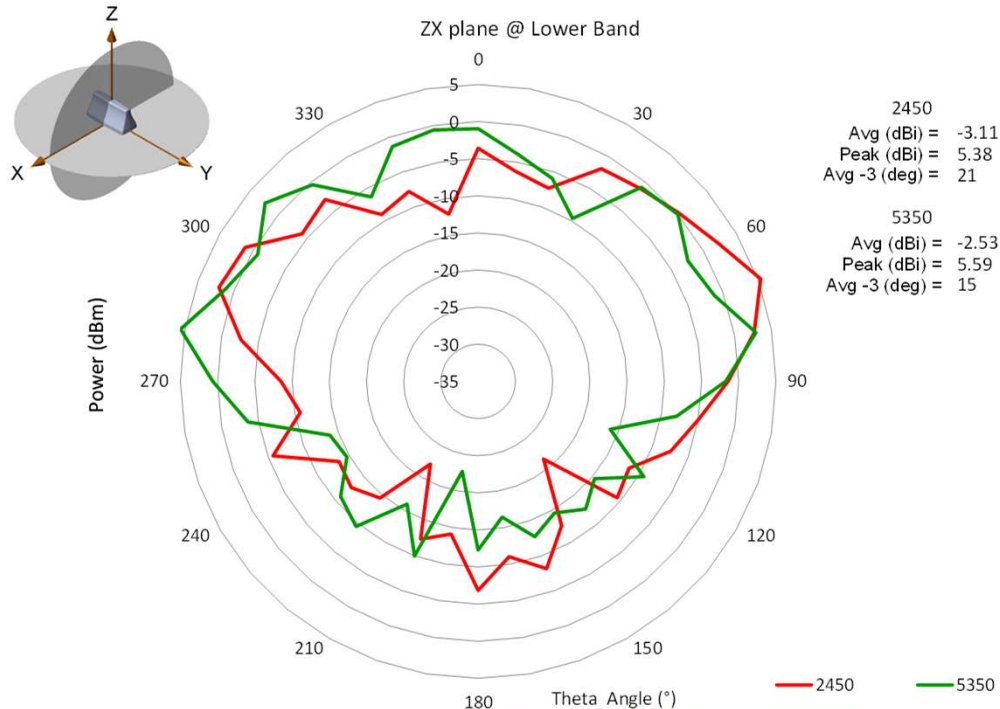
WiFi 2

Measured with
914mm (36") cable



WiFi 2

Measured with
914mm (36") cable



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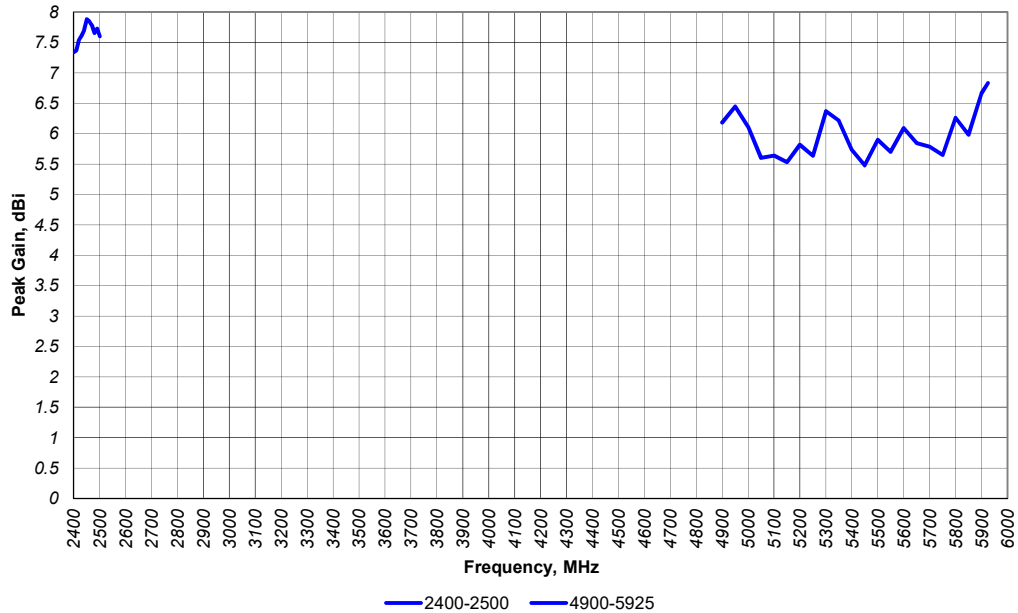
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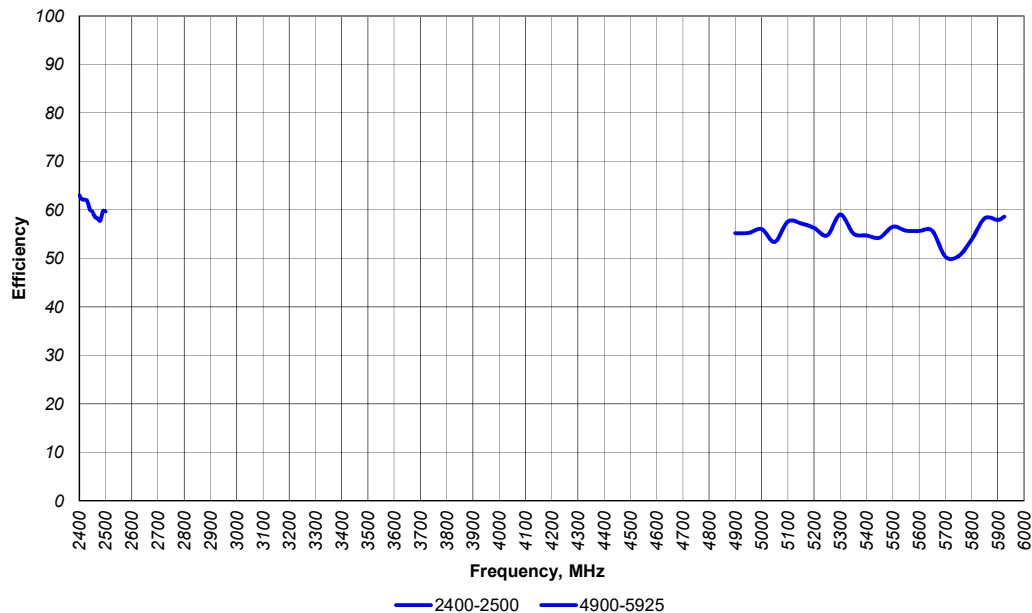
Peak Gain vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 3)
Measured at Pulse, USA - July 07, 2017



WiFi 3

Measured with
914mm (36") cable

Efficiency vs Frequency
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 3)
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WiFi 3

Measured with
914mm (36") cable

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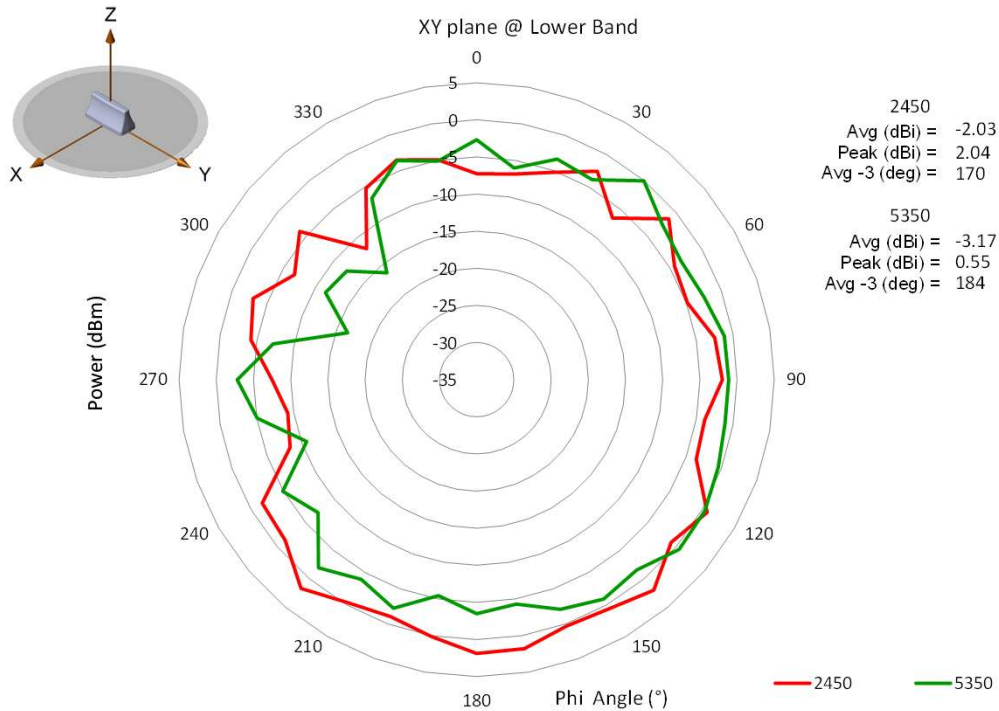
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RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

CHARTS

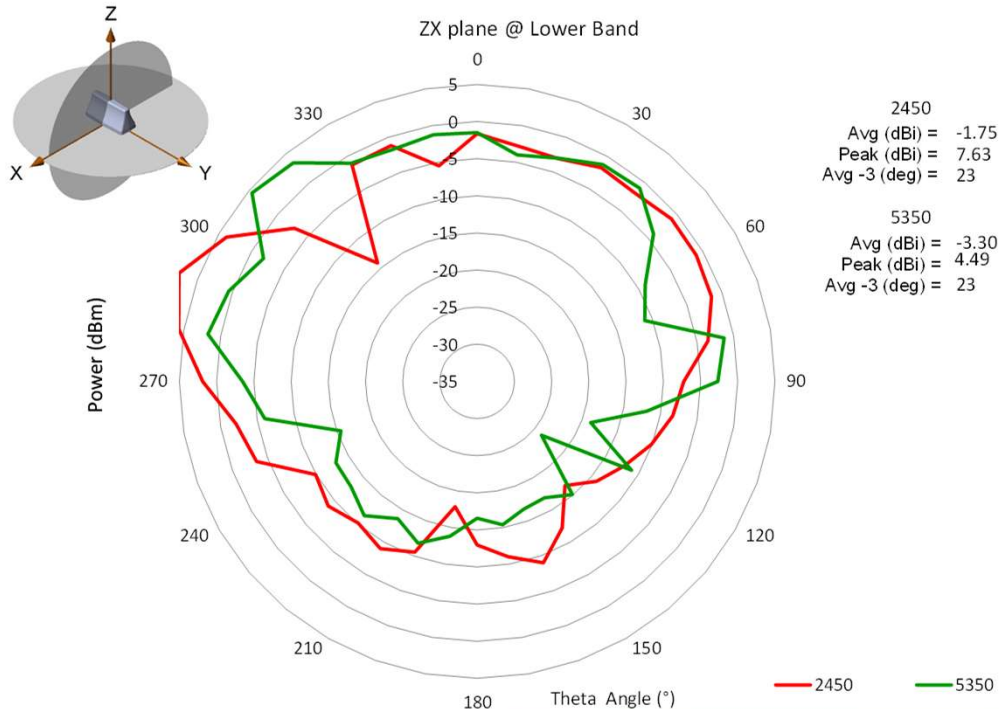
WiFi 3

Measured with
914mm (36") cable



WiFi 3

Measured with
914mm (36") cable



Issue: 1742

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

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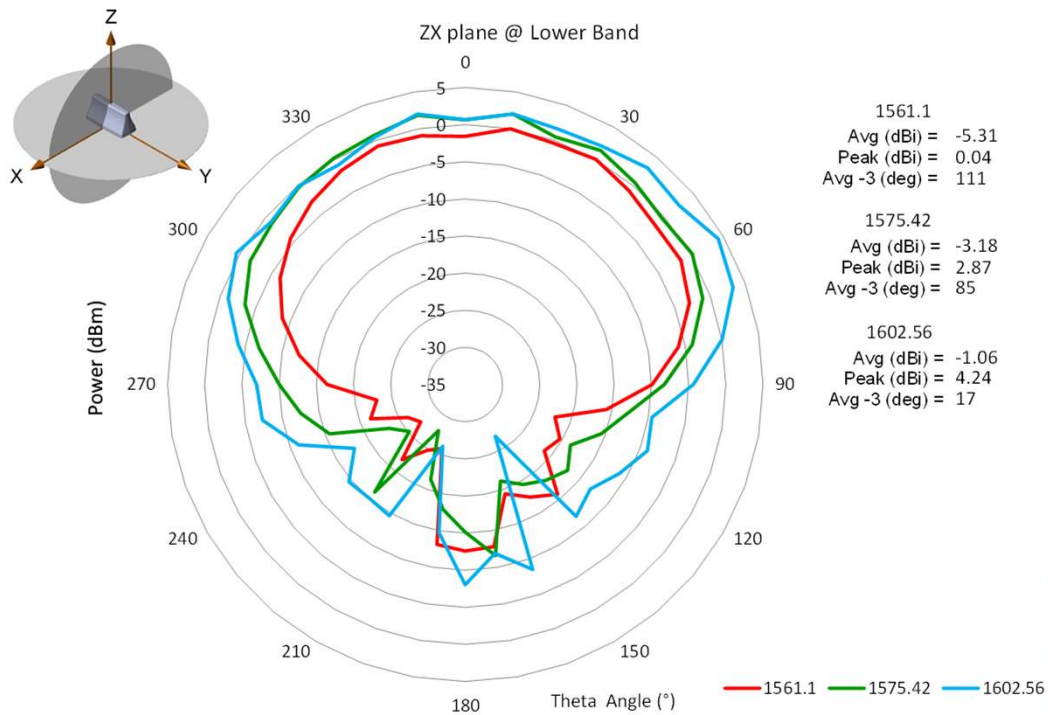
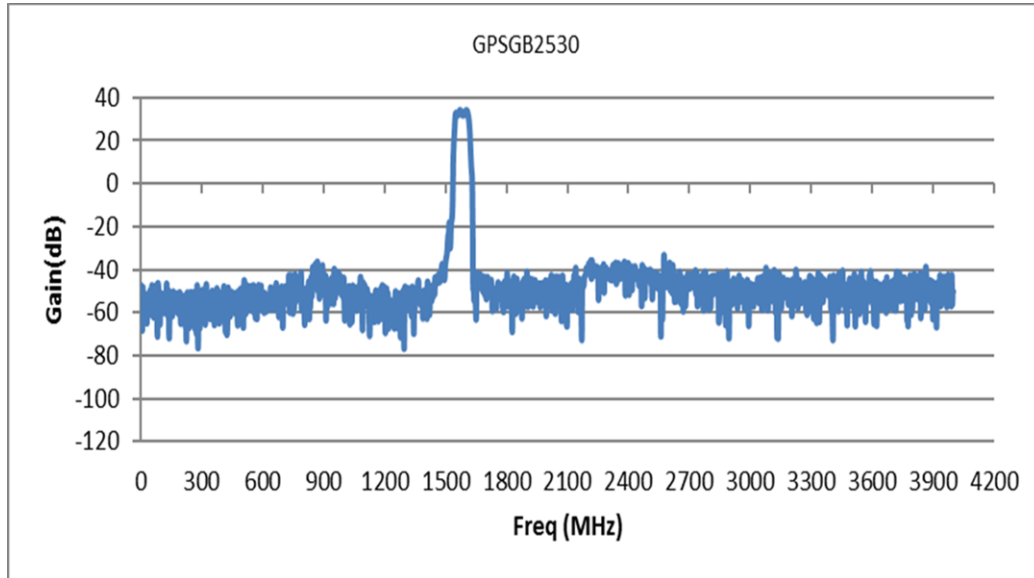
Description: GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi
Magnetic Mount

Series: RAZORBACK

PART NUMBER: RAZ32011MM, RAZ32012MM, RAZ42111MM,
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

CHARTS

GNSS LNA Gain and out-of-band rejection



GNSS

Passive
Measurement
Measured with
152mm (6") cable

Issue: 1742

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Description: GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi
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RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

PACKAGING

1pcs antennas per foam bag

6pcs antennas per package box

Total 6pcs antenna per package box

Package box: 558mm*386mm*210mm

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 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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