

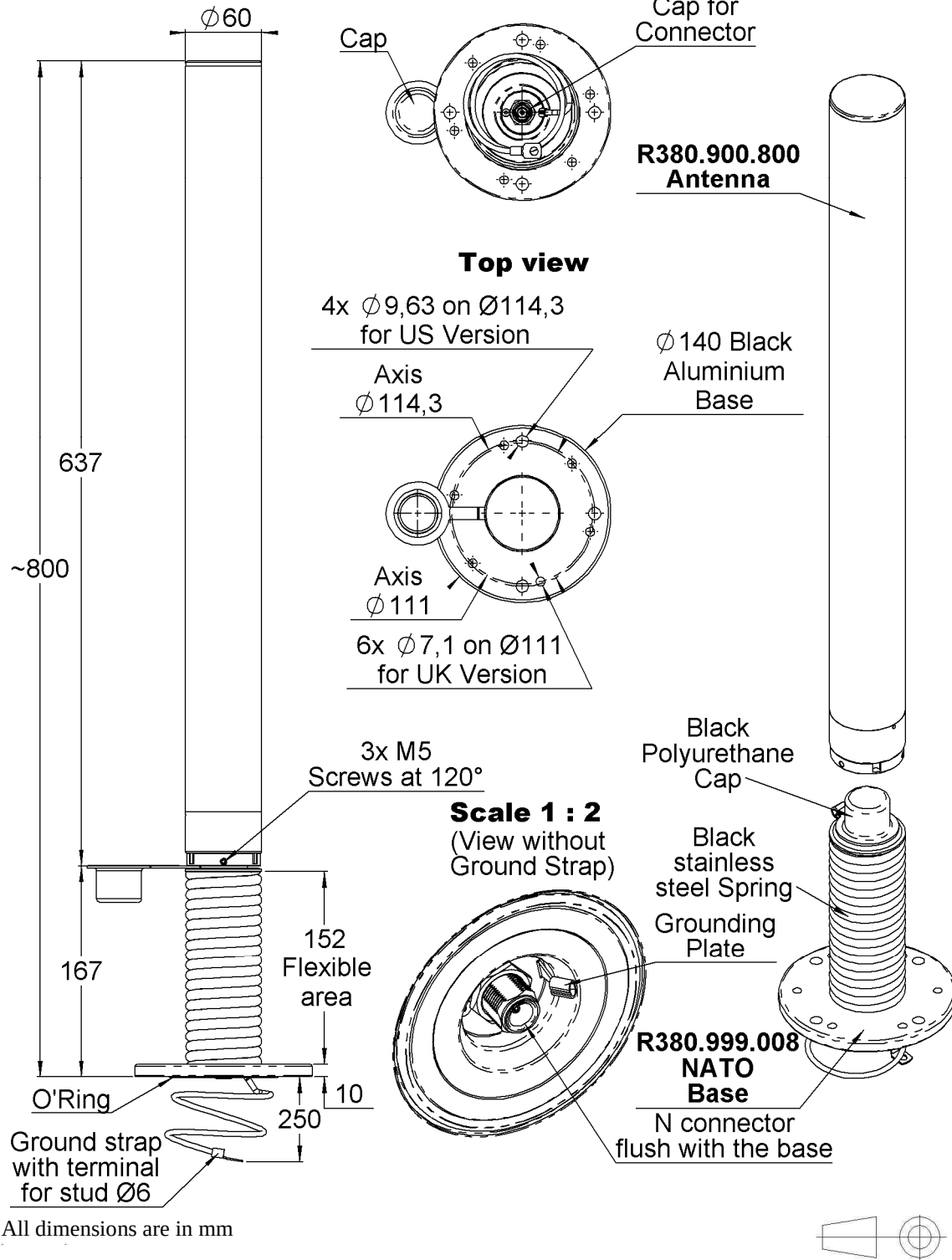
NATO SPRING MOUNT, 3G VEHICULAR ANTENNA

700 - 2500 MHz - N FEMALE RECEPTACLE

R380.990.009

Series : ANTENNA

Scale 1 : 5



Issue : 0943 A

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

RADIAL

NATO SPRING MOUNT, 3G VEHICULAR ANTENNA**700 - 2500 MHz - N FEMALE RECEPTACLE****R380.990.009**Series : **ANTENNA**

Part	Material
Radome	Polycarbonate (NATO green)
Antenna Base	Aluminum, Black
Base Body	Aluminum, Black
Connector bodies	Brass, Black Cr
insulators	PTFE
Central Contacts	Brass, Ni2Au1.3
Spring	Stainless Steel, Black.
Coaxial Cable	Specially developped 5/50Ω coax

The R380.990.009 Broadband Vehicular Antenna is a 50 W, dipolar design. The antenna phase centre is located 570mm above the ground plane (or reference plane). The VSWR performance of the antenna extends above the 2500 MHz mark, but radiation performance for higher frequencies are deteriorated.

The R380.990.009 is composed of the NATO Spring Mount R380.999.008 and the Specific R380.900.800 antenna.

ELECTRICAL CHARACTERISTICS

Frequency :	700-2500 MHz
Nominal Impedance :	50 Ω
VSWR (700 - 2500 MHz) :	3.0:1 Max
	2.5:1 Typ.
Polarization :	VERTICAL
Radiation Pattern:	OMNIDIRECTIONNAL
Ripple in Azimuth Plane:	± 1 dB
Power withstanding :	50 W
Gain in azimuth plane (1.2 x 1.2 m ground plane):	0 dBi (typ.)
DC Grounding):	NO

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NATO SPRING MOUNT, 3G VEHICULAR ANTENNA**R380.990.009****700 - 2500 MHz - N FEMALE RECEPTACLE**Series : **ANTENNA****MECHANICAL CHARACTERISTICS**Connector (Antenna side) :..... **custom**Connector (NATO Base) :..... **N Female Receptacle**Weight (including NATO Base): **4.0 Kg**

Dimensions :

Overall height : **~ 800 mm**Overall antenna height : **637 mm**Antenna diameter :..... **Ø60 mm**Spring height (Flexible area) :..... **152 mm**NATO Base height : **167 mm**

Material :

Radome : **POLYCARBONATE**Antenna Color : **OLIVE DRAB BS381C:298**Spring : **STAINLESS STEEL**NATO Base Color : **BLACK PLATING**Fixing system for UK Version : **By 6 screws Ø7 with NATO Base**Fixing system for US Version : **By 4 screws Ø9.5 with NATO Base**“Oak” Beam Test :..... **25 Times @ 40 km/h @ 0.57 m****Issue : 0943 A**

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Series : ANTENNA

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature :..... -55 / +71°C ° C

Storage & Transport Temperature :..... -55 / +85°C ° C

Fluid contamination :..... Iaw Mil Std 810F meth. 504

Ingress Protection : IP67

Salt Spray: 48 h

Vibration: Iaw Mil Std 810F meth 514.5 proc I,
cat.20 (Track & wheeled vehicles)Shocks: Iaw Mil Std 810F meth 516.5
proc I & VSolar Radiation: Iaw Mil Std 810F proc II, desert
conditions

Sand & Dust: Iaw Mil Std 810F proc I&II

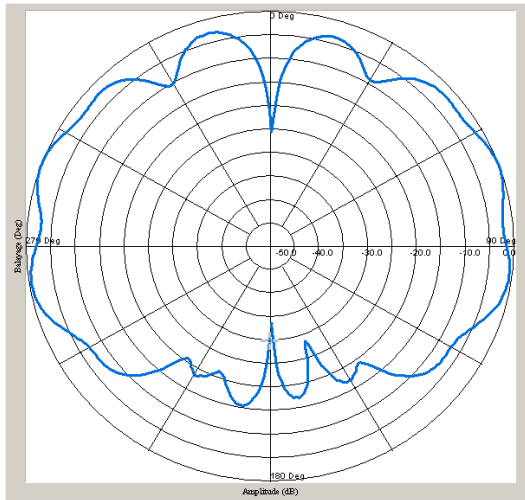
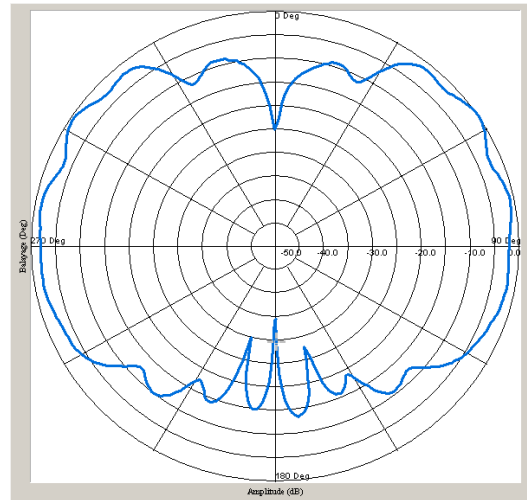
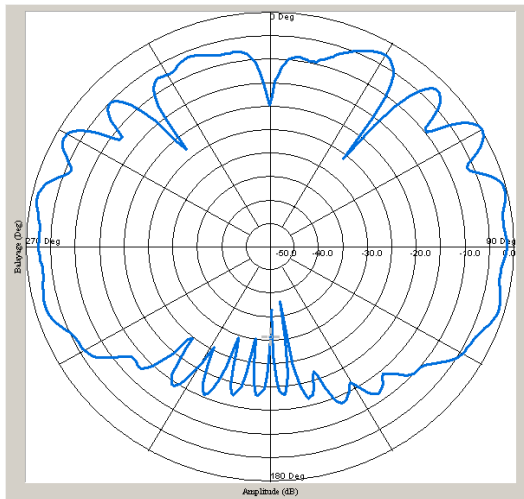
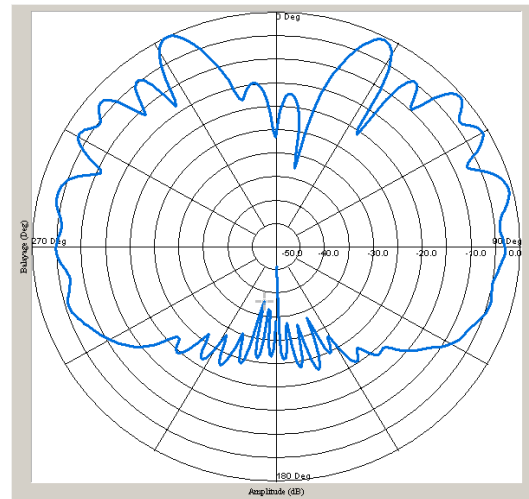
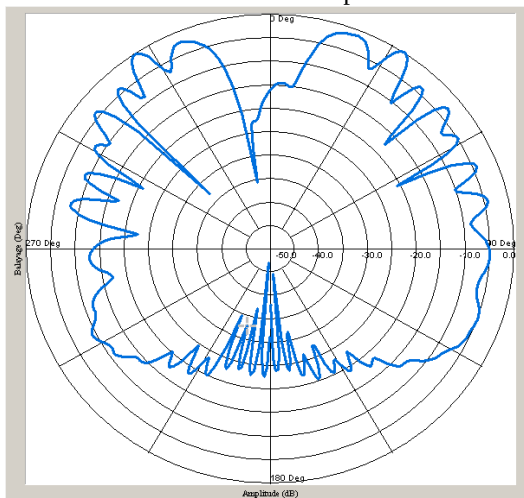
Flexibility (Spring Mount) : 10 000 bends at 30° (4 axis)
1 000 bends at 90° (4 axis)

Mechanical performance of the antenna is obtained with the specific R380.999.008 spring Mount.

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NATO SPRING MOUNT, 3G VEHICULAR ANTENNA**R380.990.009****700 - 2500 MHz - N FEMALE RECEPTACLE****Series : ANTENNA****RADIATION PATTERNS (With Ground Plane)****700 MHz Elevation Pattern****1000 MHz elevation Pattern****1500 MHz elevation pattern****2000 MHz elevation pattern****2500 MHz elevation pattern**

Measurements performed in Anechoic chamber
with a 1.2 x 1.2 ground plane.

Radiation patterns are Normalized to 0 dB.

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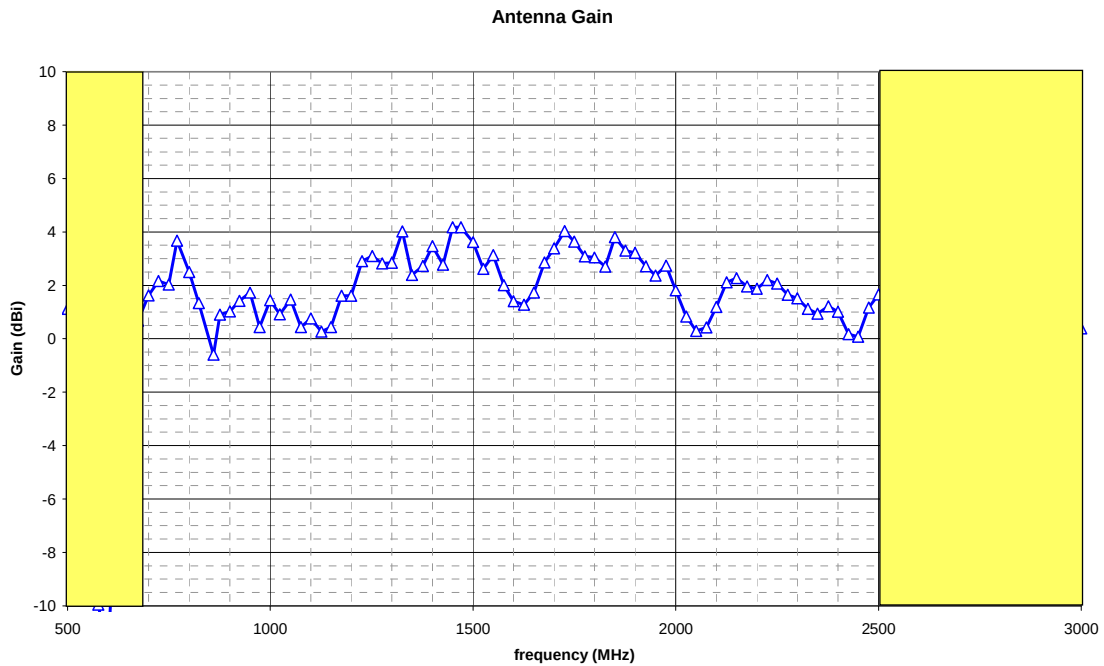
RADIAL 

NATO SPRING MOUNT, 3G VEHICULAR ANTENNA

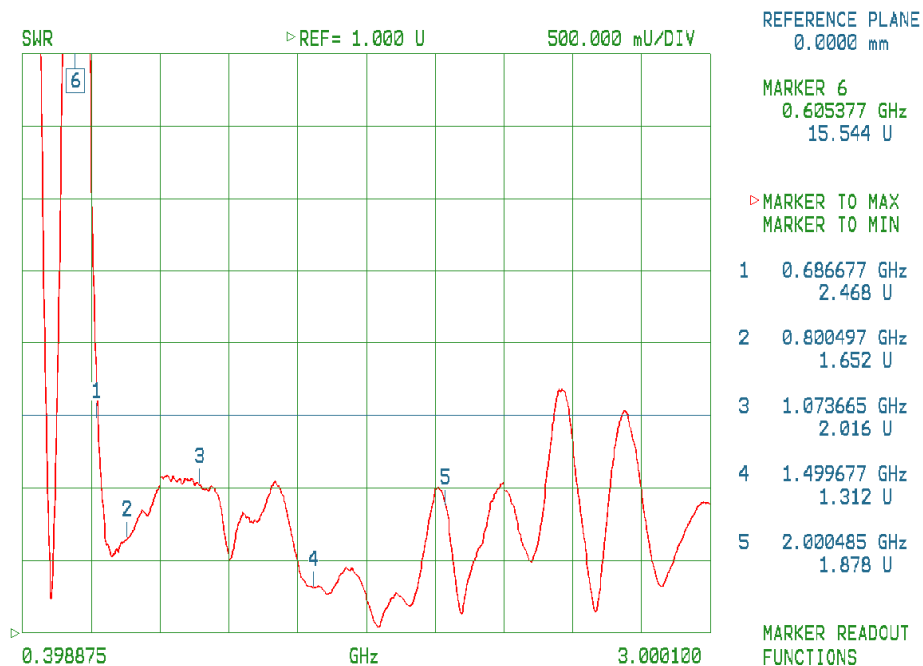
700 - 2500 MHz - N FEMALE RECEPTACLE

R380.990.009

Series : ANTENNA

TYPICAL PERFORMANCE (With Ground Plane)**ANTENNA GAIN in AZIMUTH PLANE**

(measured on a 1.2 x 1.2 m ground plane).

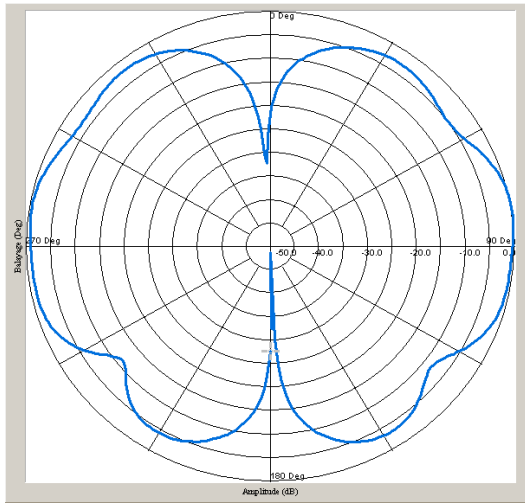
VSWR**Issue : 0943 A**

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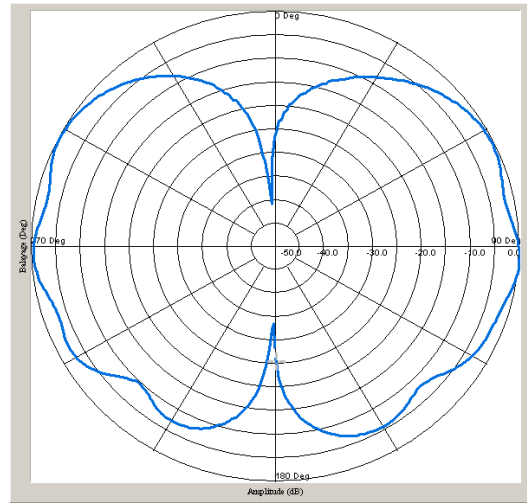
RADIAL 

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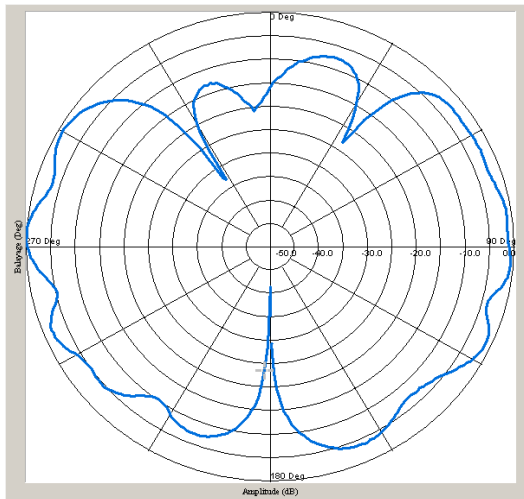
Series : ANTENNA

RADIATION PATTERNS (Without Ground Plane)

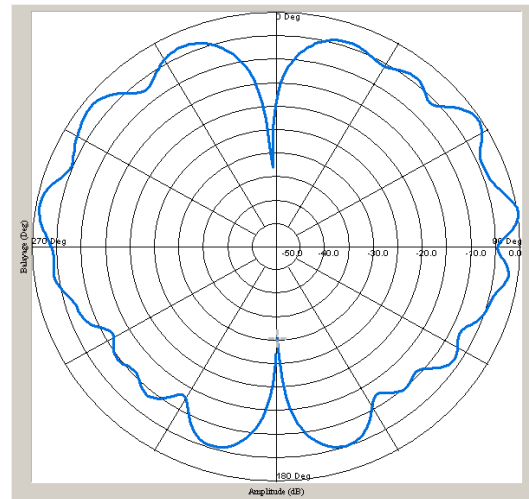
700 MHz Elevation Pattern



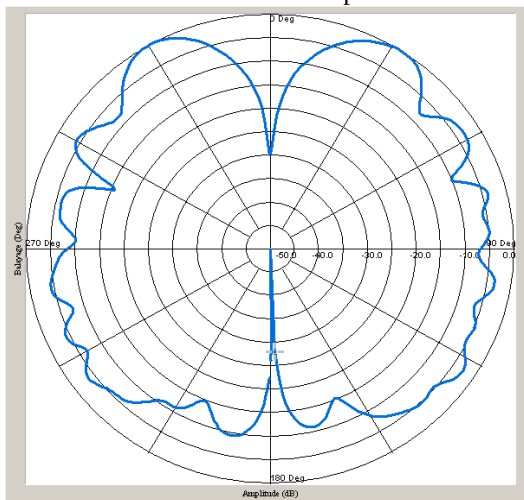
1000 MHz elevation Pattern



1500 MHz elevation pattern



2000 MHz elevation pattern



2500 MHz elevation pattern

Measurements performed in Anechoic chamber
with a stand alone antenna.

Radiation patterns are Normalized to 0 dB.

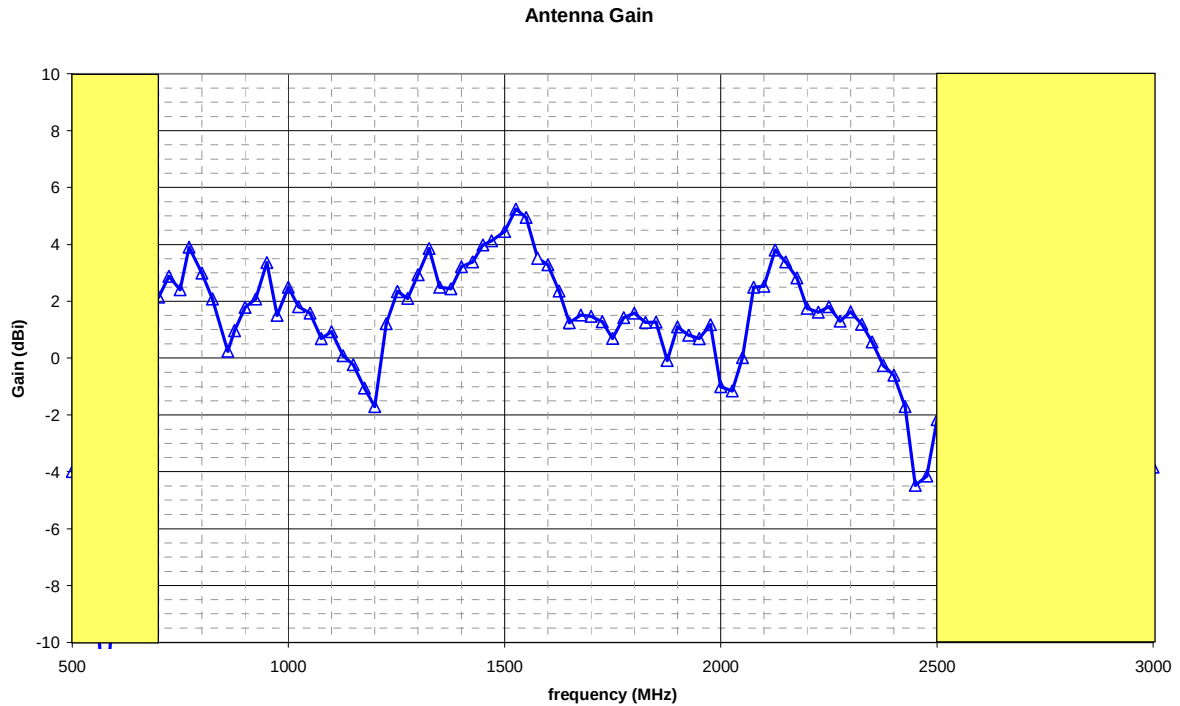
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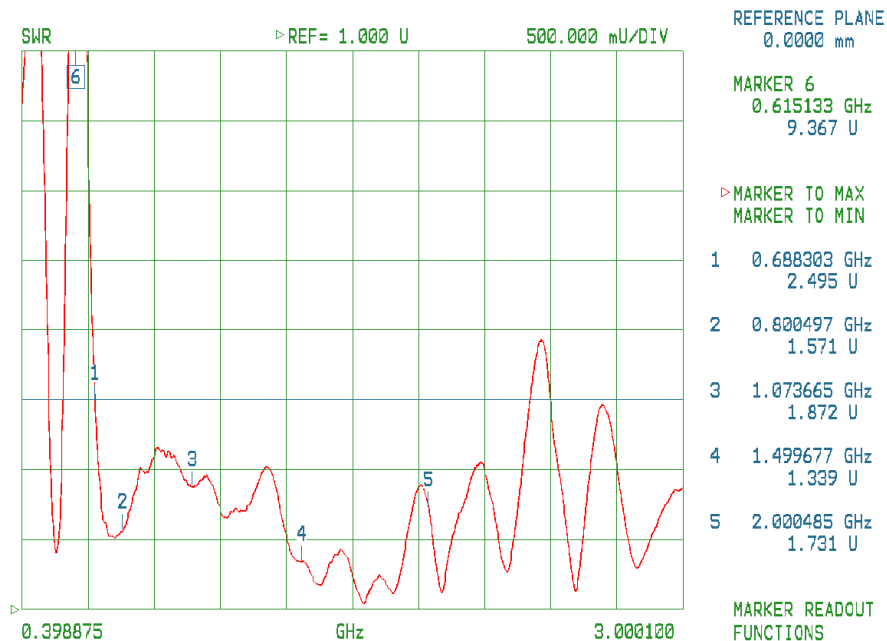
RADIAL 

NATO SPRING MOUNT, 3G VEHICULAR ANTENNA**700 - 2500 MHz - N FEMALE RECEPTACLE****R380.990.009**

Series : ANTENNA

TYPICAL PERFORMANCE (Without Ground Plane)**ANTENNA GAIN in AZIMUTH PLANE**

(measured stand alone antenna).

VSWR**Issue : 0943 A**

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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