

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 $5/50\Omega$ 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	0 dBi (typ.)
(1.2 x 1.2 m ground plane): DC Grounding):	NO



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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

YCARBONATE
OLIVE DRAB BS381C:298
INLESS STEEL
ACK PLATING
-

Fixing system for UK Version : Fixing system for US Version :

"Oak" Beam Test :....

By 6 screws Ø7 with NATO Base By 4 screws Ø9.5 with NATO Base

25 Times @ 40 km/h @ 0.57 m



TECHNICAL DATA SHEET

NATO SPRING MOUNT, 3G VEHICULAR ANTENNA

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Operating Temperature :....

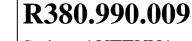
Storage & Transport Temperature :.....

ENVIRONMENTAL CHARACTERISTICS

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 vehicules)
Shocks:	Iaw Mil Std 810F meth 516.5 proc I & V
Solar 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)

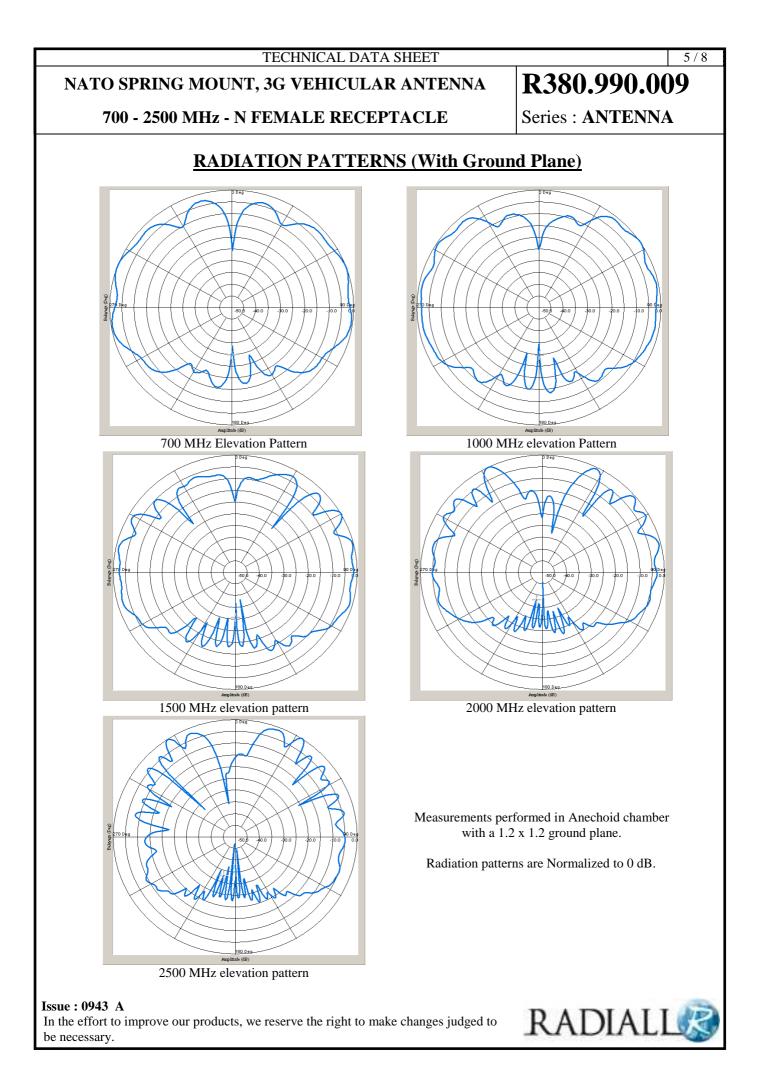
Mechanical performance of the antenna is obtained with the specific R380.999.008 spring Mount.

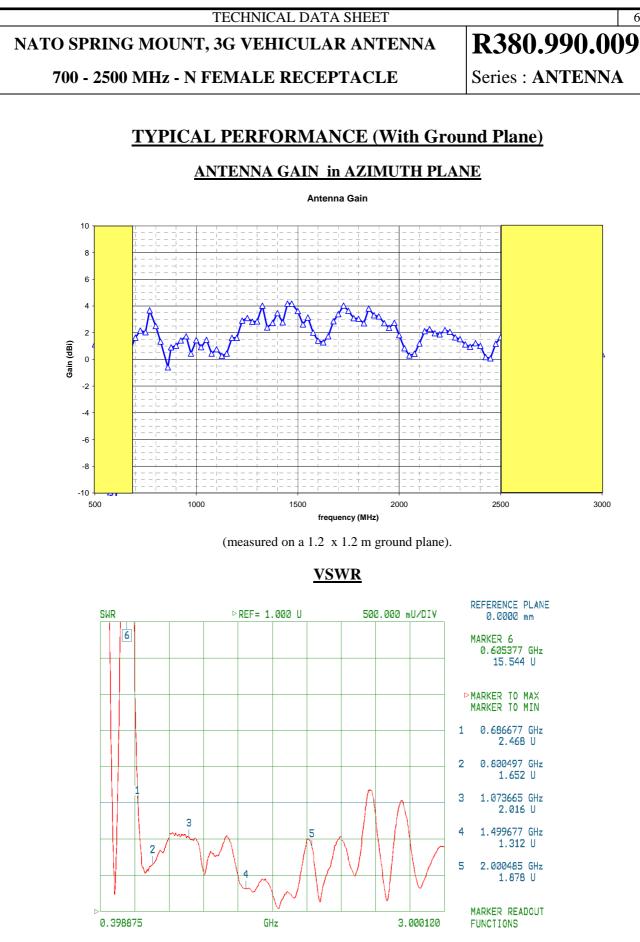




-55 / +71°C ° C -55 / +85°C ° C

Series : ANTENNA

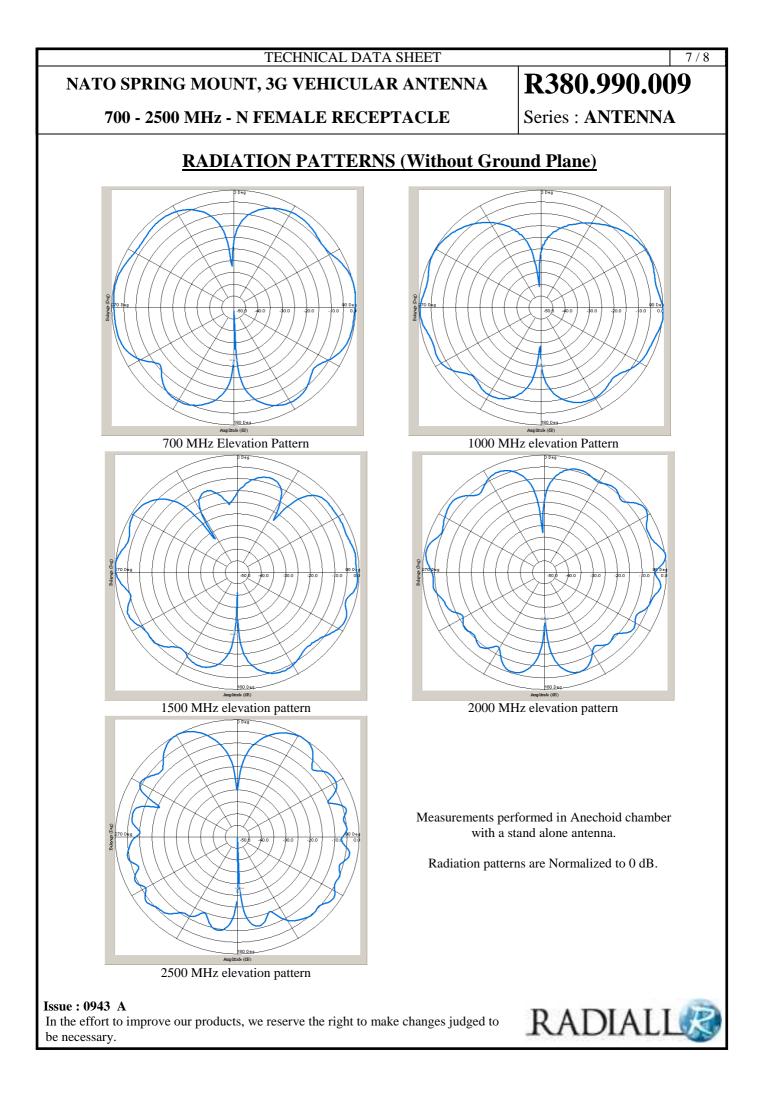


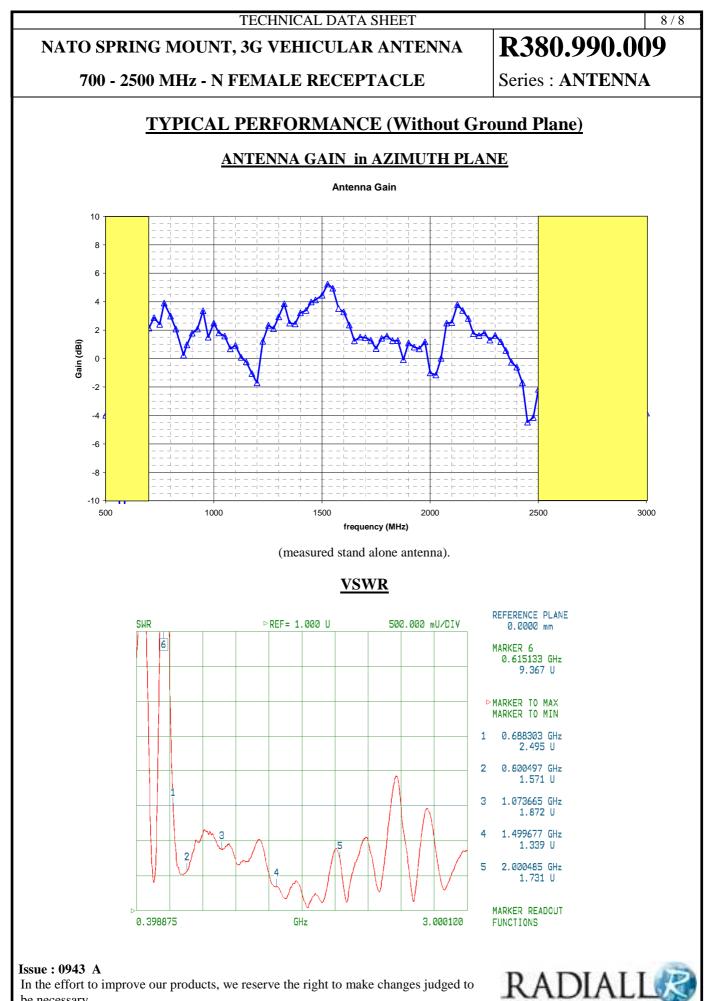


Issue : 0943 A In the effort to improve our products, we reserve the right to make changes judged to be necessary.



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