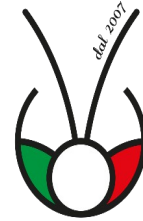


ANT S.r.l.

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DESCRIPTION

169 MHz 1/4 wave magnetic antenna
 Omnidirectional antenna with magnetic base and
 stainless steel radiating element
 (geometry $\lambda/4 - 1/4$ wave)

**Mistral-MAG 1/4-169****P/N: F02-015****ELECTRICAL DATA**

Frequency range (V.S.W.R. < 2 : 1)	163-175 MHz 12 MHz at the requested frequency centre
Impedance:	50 Ω
V.S.W.R.:	< 1.5 : 1
Max Power:	15 W
Polarisation:	Linear
Radiation:	Omnidirectional
Gain:	about 2.1 dBi

MECHANICAL DATA

Whip dimensions (about):	$\varnothing 15 \times 450$ mm
Base dimensions (about):	$\varnothing 70 \times 18$ mm
Connection:	SMA plug
Cable:	RG58 5 m
Operating Temperature:	-40° / +80°C
Weight:	0.350 kg
Radome material:	Thermoplastic elastomer
Radiating element material:	Steel, brass



Protection against oxidation: the antenna is designed to be able to withstand the worst climatic conditions, and so that the oxidation of its parts is prevented with the plastic parts being made of raw materials resistant to external environmental agents.
RoHS Directive: The antenna complies with the RoHS Directive and its subsequent.

MOUNTING INSTRUCTIONS

Please make sure to place the antenna on a surface of proper dimensions to guarantee the antenna operates properly at its given frequency. If the antenna is to be used on a vehicle, it is preferable it be placed at the centre of the vehicle's roof top. Please note the antenna is designed as movable and not fixed, therefore when the vehicle is moving it is recommended to moderate the speed or remove the antenna.

WARNING:

Please note the performances of the antenna are directly influenced by the ground plane the antenna is installed on.

ANT S.r.l. si riserva di apportare modifiche e miglioramenti in qualsiasi momento senza obbligo di preavviso
 ANT S.r.l. reserves the right to change or to improve this documentation at all times and without notice.

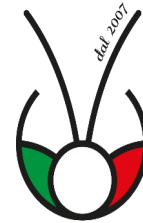
ENG-Rev. 1

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Mistral-MAG 1/4-169

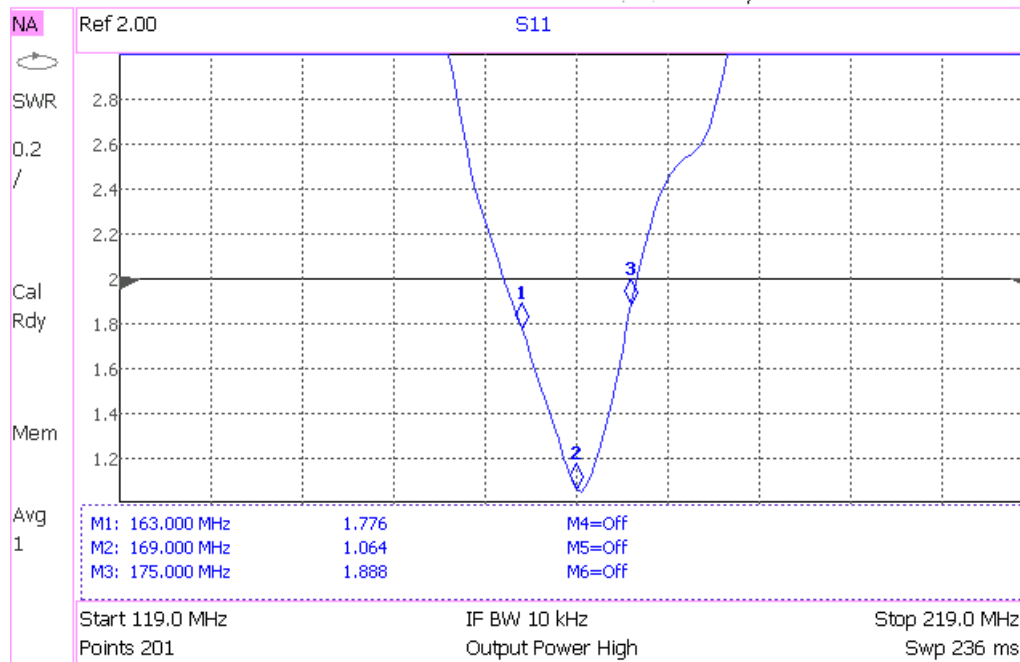
P/N: F02-015

V.S.W.R. (Frequency centre: 169 MHz)

(with whip mounted in optimal position)

Agilent Technologies

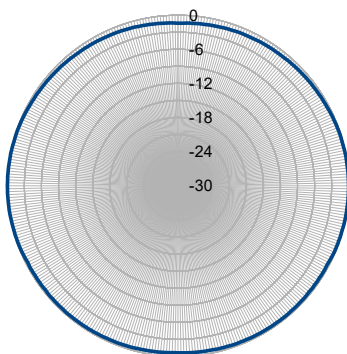
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Radiating Pattern

(with whip mounted in optimal position)

169 MHz H-plane



169 MHz E-plane

