


<b>ANT S.r.l.</b> Via della Concordia, 4 – 37036 S. Martino B/A (VR) - Italia Tel. +39 045 8781380 Fax +39 045 8795335 e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a> <a href="http://www.antsrl.eu">www.antsrl.eu</a>	<b>DESCRIPTION</b>	
	<b>155-174 MHz ½ wave dipole antenna</b> ½ wave dipole antenna made of aluminium with base for mounting on mast.	

**NASA-169**  
**NASA-160**

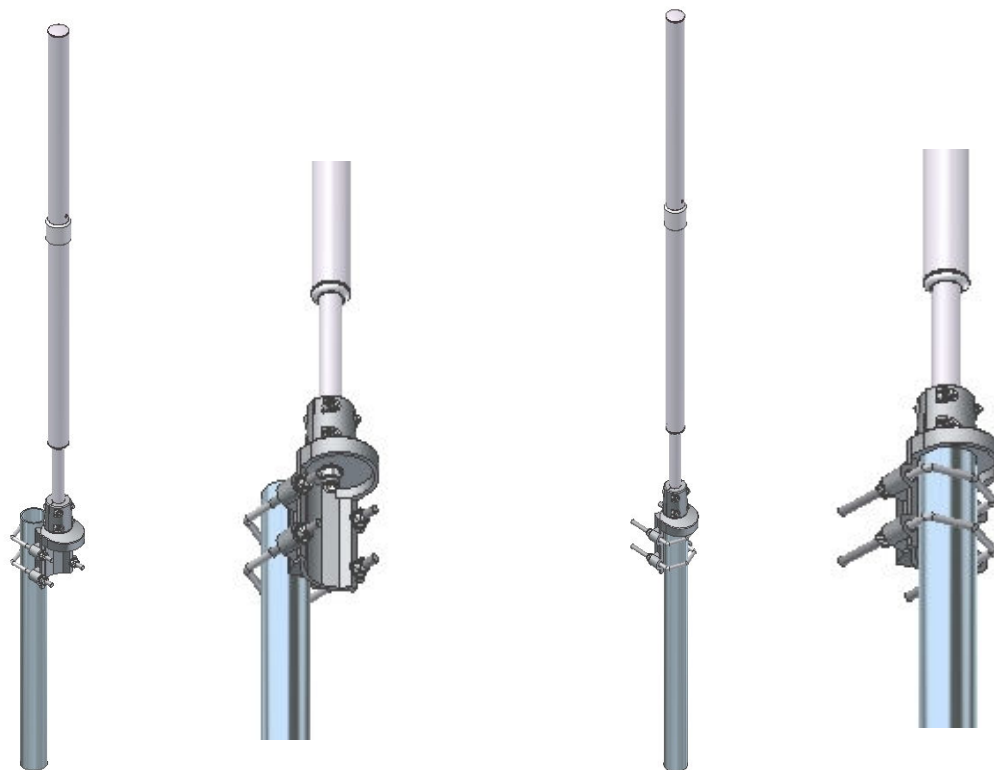
**P/N: M04-002**  
**P/N: M05-002**

**ELECTRICAL DATA**

Frequency range:	169 MHz (164 / 174 MHz)
Model M04-002	160 MHz (155 / 165 MHz)
Model M05-002	
Impedance:	50 Ω
V.S.W.R.:	< 1.4 : 1
Max power:	450 W
Polarisation:	Vertical
Radiation:	See patterns below
Gain:	>2.1 dBi
Protection against electrostatic discharges:	DC grounded

**MECHANICAL DATA**

Dimensions (about):	Ø35x1100 mm
Connection:	N socket
Cable:	on request
Operating temperature:	-30° / +80°C
Weight (about):	1.9 kg
Radiating element material:	Brass, aluminium, stainless steel
Installation:	On pole Ø min. 35 mm (1.5 inch) max 60 mm (2.5 inch).

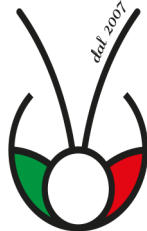


**Protection against electrostatic discharges:** The antenna is designed with both elements DC grounded to withstand electrostatic discharges.

**RoHS Directive (EC-2002-95 and following):** The antenna complies with the EC RoHS Directive.

**MOUNTING INSTRUCTIONS:**

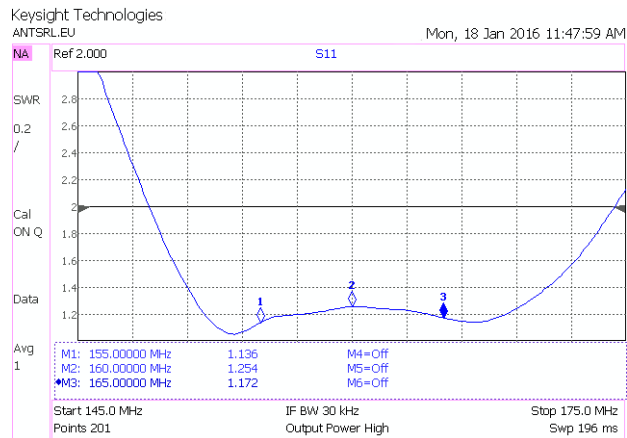
Please install the antenna on mast as indicated in this documentation.

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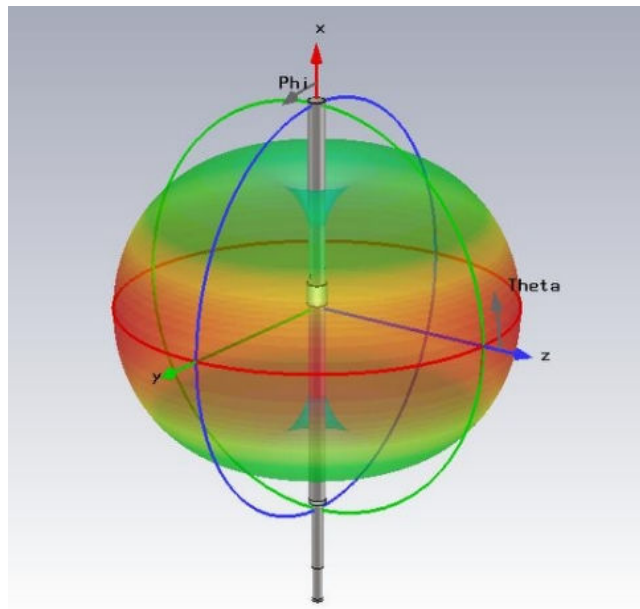
**NASA-169**  
**NASA-160**

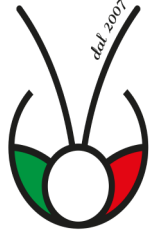
**P/N: M04-002**  
**P/N: M05-002**

### V.S.W.R. Model NASA-160



### Radiating Pattern Simulation



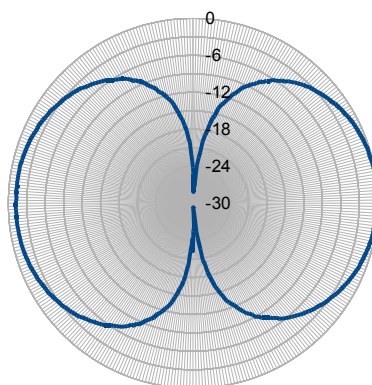
<p><b>ANT S.r.l.</b>  Via della Concordia, 4 – 37036  S. Martino B/A (VR) - Italia  Tel. +39 045 8781380  Fax +39 045 8795335  e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a>  <a href="http://www.antsrl.eu">www.antsrl.eu</a></p>	<p style="text-align: center;"><b>DESCRIPTION</b></p> <p style="text-align: center;"><b>155-174 MHz ½ wave dipole antenna</b>  ½ wave dipole antenna made of aluminium  with base for mounting on mast.</p>	
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**NASA-160**

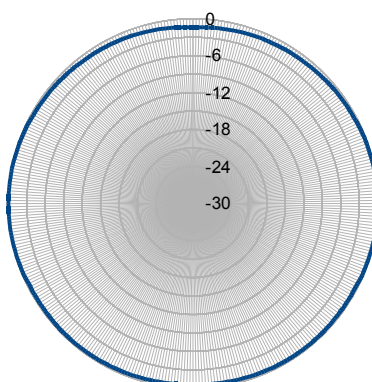
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**P/N: M05-002**

## Radiating Patterns instrumental measurement

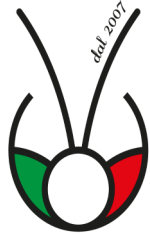
Antenna mounted on mast



E Plane



H Plane

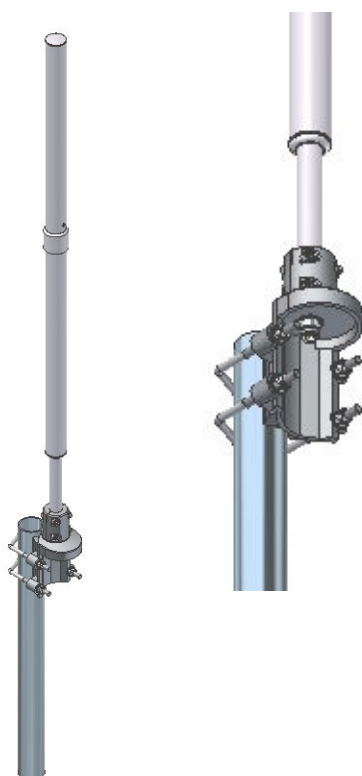
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**MOUNTING OPTIONS**

**PARALLEL TO THE MAST**



**OVER THE MAST**

