

## ANT 868-S8-SMA

Helix antenna for application in the ISM band 860MHz to 870MHz.  
 Omni directional radiation pattern and attractive design.  
 Termination in SMA male connector. Small size and excellent performance.

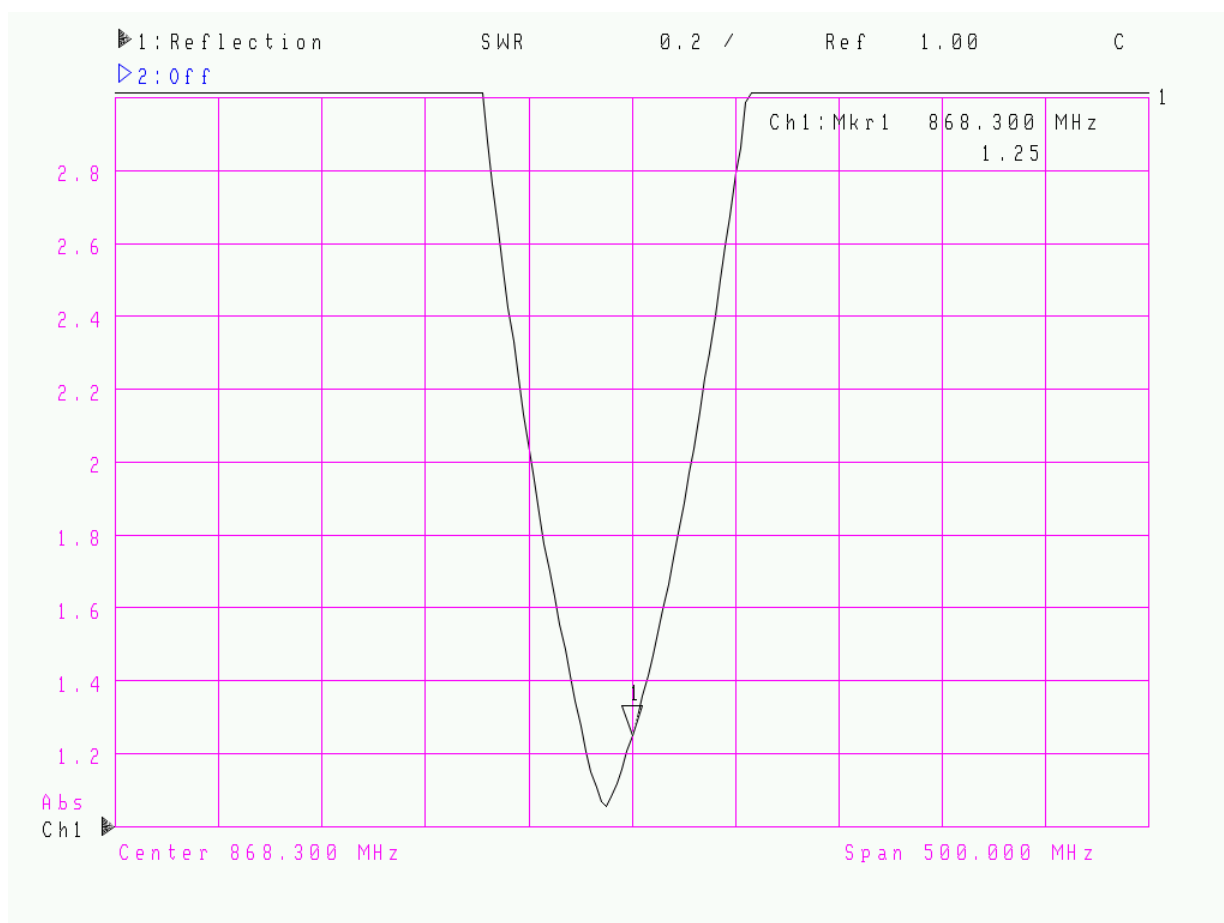
The antenna need a good reference ground, or antenna counterbalance connected to ground as close as possible to the SMA female connector ( see example )



## Technical features

	Min	Typical	Max	Unit	Annotations
<b>Working frequency centre</b>	860	868,3	870	MHz	
<b>Impedance</b>		50		$\Omega$	
<b>V.S.W.R</b>		1.1			Measured at 868,3MHz
<b>Gain</b>		-1		dBi	
<b>Power</b>			10	W	
<b>Antenna connector</b>	SMA male				
<b>Connection side device</b>	BNC				
<b>Antenna Body material</b>	TPE / ABS				
<b>Color</b>	Black				
<b>Temperature range</b>	-20		70	$^{\circ}\text{C}$	
<b>Dimension straight antenna</b>	50 x 14			mm	

## V.S.W.R. Vs Frequency



Note: antenna in open space

## SMA Termination



## Antenna counterbalance



If a good ground plane is not available, a radial ground plane can be applied as the picture. The wire size is  $\frac{1}{4}$  wavelength referred to the working frequency of the antenna, connected to ground, as close as antenna connector. See picture above.

Aurel has, in his catalogue, the counter wave wire kit with its terminal suitable for SMA female connector, ready for 860-870MHz.

### Code for order:

650201557G ANT-S8-SMA (E1) Antenna 860-870MHz

### Accessories:

040400151 Kit 860-870MHz counterbalance wire cable lugs D.6mm

040400354 IPEX cable 50ohm SMA female to U.FL connector L.110mm

040400364 IPEX cable 50ohm SMA female to U.FL connector L.500mm

### Kits:

650201453G ANT-S8-SMA with IPEX cable 50ohm SMA female to U.FL L.110mm, 860-870MHz counterbalance wire with cable lugs D.6mm

6502xxxxxG ANT-S8-SMA with IPEX cable 50ohm SMA female to U.FL L.500mm, 860-870MHz counterbalance wire with cable lugs D.6mm