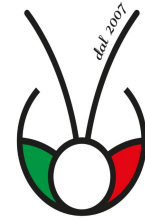


**ANT S.r.l.**

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**DESCRIPTION**

**1/2wave multiband antenna – adhesive mount**  
 suitable for applications  
 868/915MHz (LoRa, LoRaWAN, Sigfox, ISM),  
 GSM-GPRS 900/1800MHz, 3G-UMTS 2100MHz,  
 WiFi 2.4 GHz, 4G-LTE / 5G (Bands 1, 2, 3, 5, 7, 8,  
 20, 28)

**Shamal-T**

P/N: B01-011

**ELECTRICAL DATA**

|                          |                           |
|--------------------------|---------------------------|
| Frequency range:         | 860-960 / 1710-2170 2400- |
| Impedance:               | 2690 MHz                  |
| V.S.W.R. at 868/915 MHz: | 50 Ω                      |
| V.S.W.R. 1710-2170 MHz   | < 2 : 1 *                 |
| V.S.W.R. 2400-2690 MHz   | < 2 : 1 *                 |
| Max Power:               | < 2 : 1 *                 |
| Polarisation:            | 10 W                      |
| Radiation:               | Linear                    |
| Gain at 698-960 MHz:     | Omnidirectional           |
| Gain at 1710-2170 MHz:   | 2.1 dBi                   |
| Gain at 2400-2690 MHz:   | 2.1 dBi                   |
|                          | 2.1 dBi                   |
|                          | * see VSWR patterns       |

**MECHANICAL DATA**

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Dimensions (about):           | 104x11x4 mm                                      |
| Connection:                   | SMA plug (other on request)                      |
| Cable:                        | RG174 3 m (other on request)                     |
| Operating temperature:        | -40° / +80°C                                     |
| Weight (about):               | 0.050 kg                                         |
| Radome Material:              | Thermoplastic elastomer<br>(Overmoulded antenna) |
| Radiating element's material: | Copper                                           |
| Adhesive:                     | 3M                                               |



**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: the plastic parts are made of raw materials resistant to external environmental agents.

**Protection against accidental hits:** The antenna is designed making sure persons are protected from accidental hits against its projecting parts

**RoHS Directive:** The antenna complies with the RoHS Directive and its subsequent.

**MOUNTING INSTRUCTIONS:**

Please position the antenna on a plain, carefully cleaned surface.

**WARNING:**

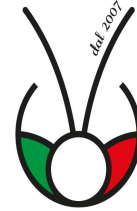
For a correct installation please mount the antenna so that it is at least 2 cm apart from any metallic wall. Performances are influenced by the location the antenna is installed in, therefore we advise to check operation first, in order to identify the best performance before installing the antenna.

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# DESCRIPTION

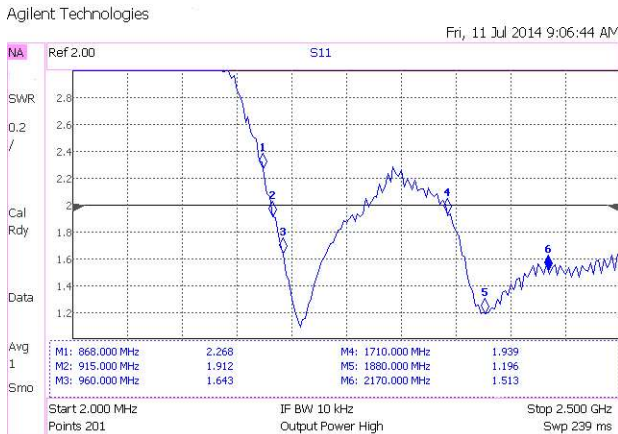
**1/2wave multiband antenna – adhesive mount**  
suitable for applications  
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4G-LTE / 5G (Bands 1, 2, 3, 5, 7, 8, 20, 28)



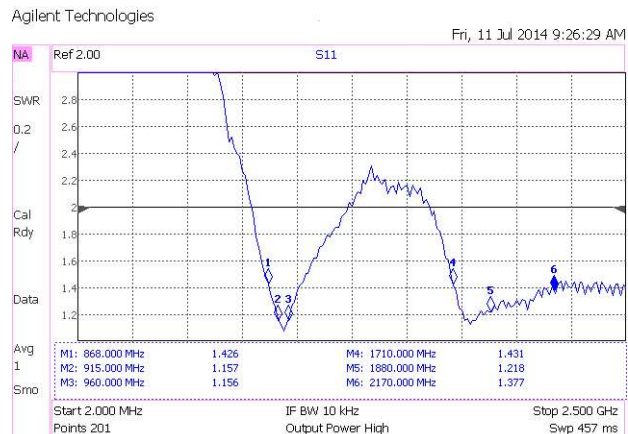
## Shamal-T

P/N: B01-011

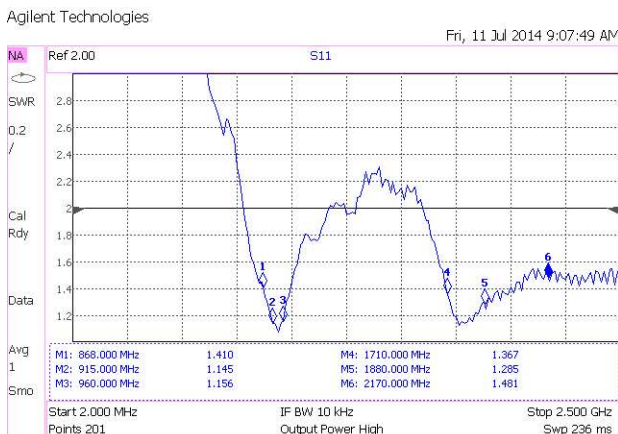
### V.S.W.R. (measured in openfield)



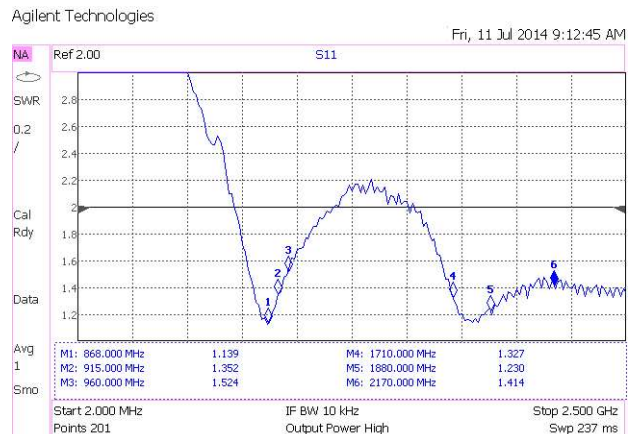
### V.S.W.R. (measured on glass wall)



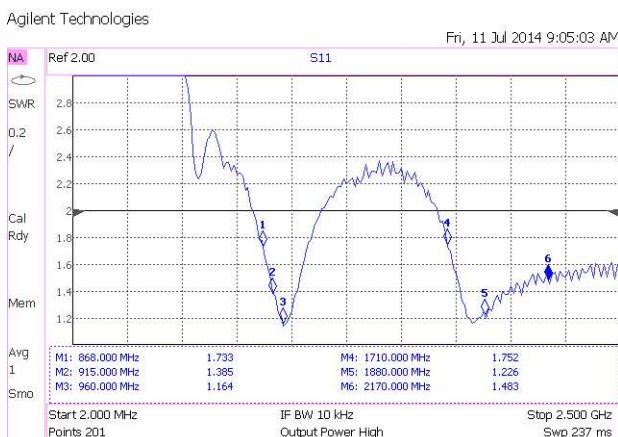
### V.S.W.R. (measured on brick wall)



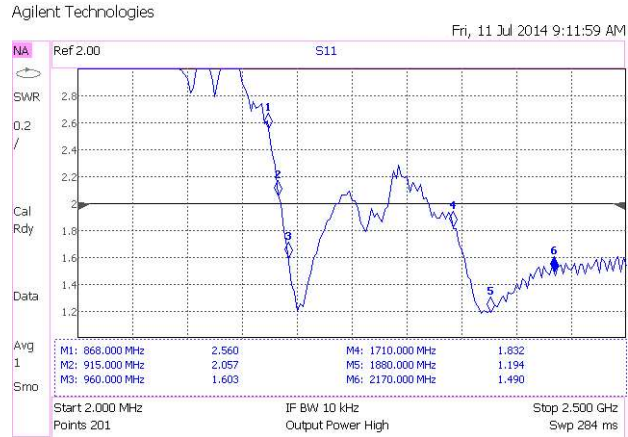
### V.S.W.R. (measured on reinforced concrete)



### V.S.W.R. (measured on plastic box)



### V.S.W.R. (measured 5 cm from metal sheet)



**ITS NAME:** Shamal is a westerly summer wind blowing over Iraq and the Persian Gulf, it is often very strong during the day, but it softens at nighttime.

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