

GSM 900/1800MHz

Features

- Omni directional Antenna
- Miniature Size:

Length = 16mm

DIA = 7mm

- VSWR <2
- 50Ω Impedance
- OdBi Gain (nominal)

Applications

- General Low Power Radio
- M2M Applications
- Telemetry



Description

The BEAD Antenna provides a compact PCB mounting solution where a high performance is required from a small space.

Available as straight or 90 degree mount this antenna is a general purpose omni-directional.

Ordering Information

PART No	Description
ANT-BEAD-GSM	Miniature Bead Antenna
ANT-BEAD-GSM90	Miniature Bead Antenna R/A Leg





Technical Data

Parameter Description

Frequency Band 900 / 1800MHz

Nominal Impedance 50 ohm Polarization Vertical

Return Loss Please See Data

V.S.W.R 2.5: 1

Mechanical

Antenna Type External Antenna

Antenna Material POM

Antenna Dimensions 22.7mm ± 2

Antenna Color Black

Operating Temperature Range $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ Storage Temperature Range $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Notes

Optimum antenna performance is achieved with a Ground Plane. The following data was characterised with the setup as below Test PCB. Size: $137(L) \times 57(W) \times 1(H)$ mm (for ref.)

Customisation

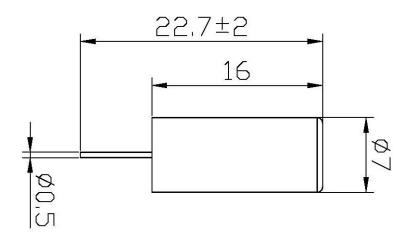
We are able to provide custom tuning of these antenna for specific customer applications. Please contact our sales dept for further information.



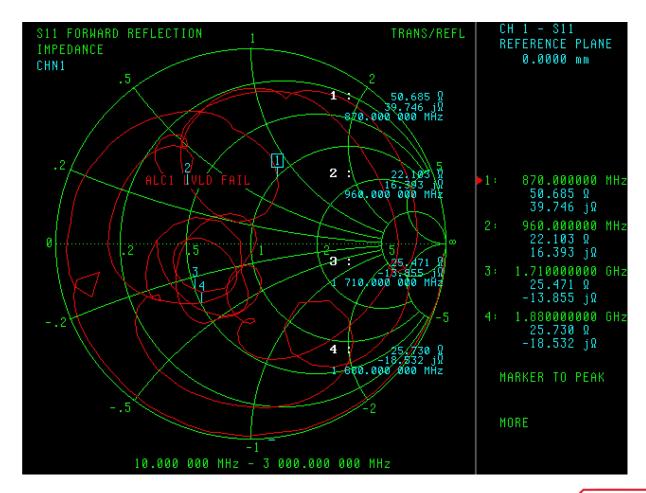


Straight Leg Version

Mechanical Detail

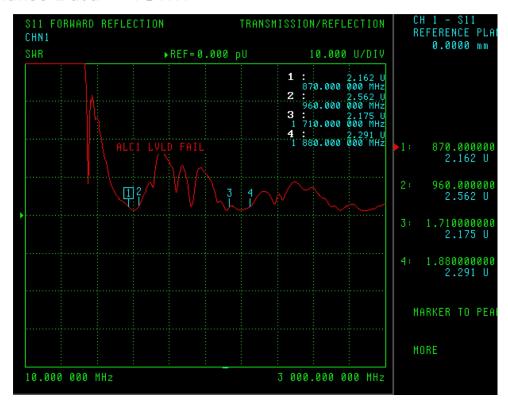


Performance Data — SMITH CHART

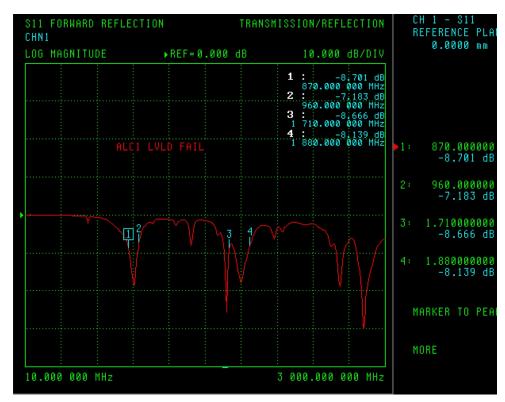




Performance Data — VSWR



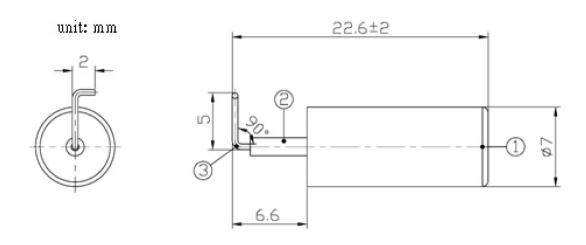
Performance Data — RETURN LOSS



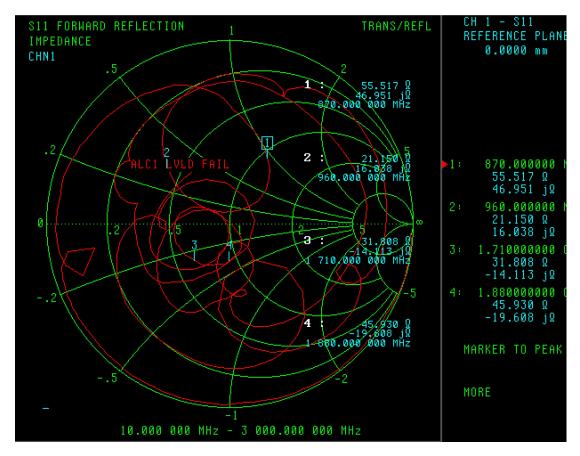


Bent Leg Version

Mechanical Detail



Performance Data — SMITH CHART

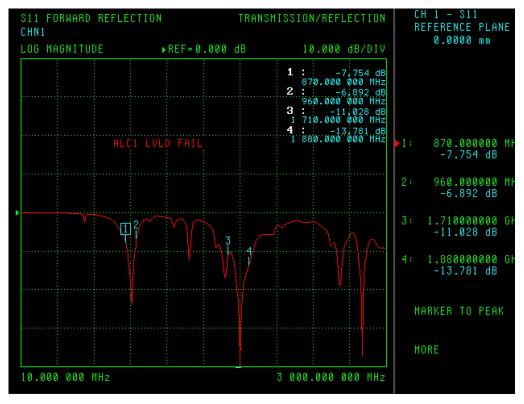




Performance Data — VSWR



Performance Data — RETURN LOSS





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Discard with normal waste, please recycle.

ROHS Directive 2011/65/EU and amendment 2015/863/EU Specifies certain limits for hazardous substances.

Waste Batteries and Accumulators Directive 2006/66/EC

Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

WEEE Directive 2012/19/EU

Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfills its WEEE obligations by membership of an approved compliance scheme.

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