



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GSM 900/1800MHz

Features

- Omni directional Antenna
- Miniature Size:
 - Length = 16mm
 - DIA = 7mm
- VSWR <2
- 50Ω Impedance
- 0dBi 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 \pm 2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

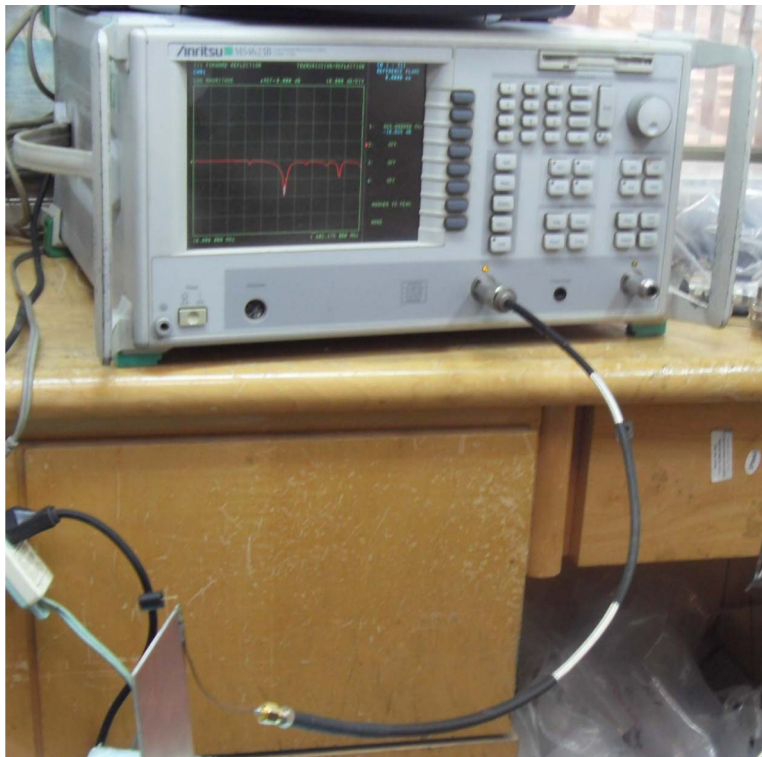
Notes

Optimum antenna performance is achieved with a Ground Plane. The following data was characterised with the setup as below

Test PCB, Size: 137(L) x 57(W) x 1(H) mm (for ref.)

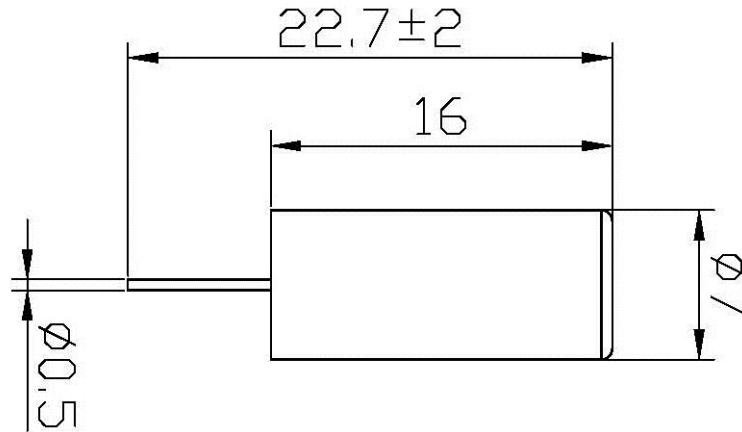
Customisation

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

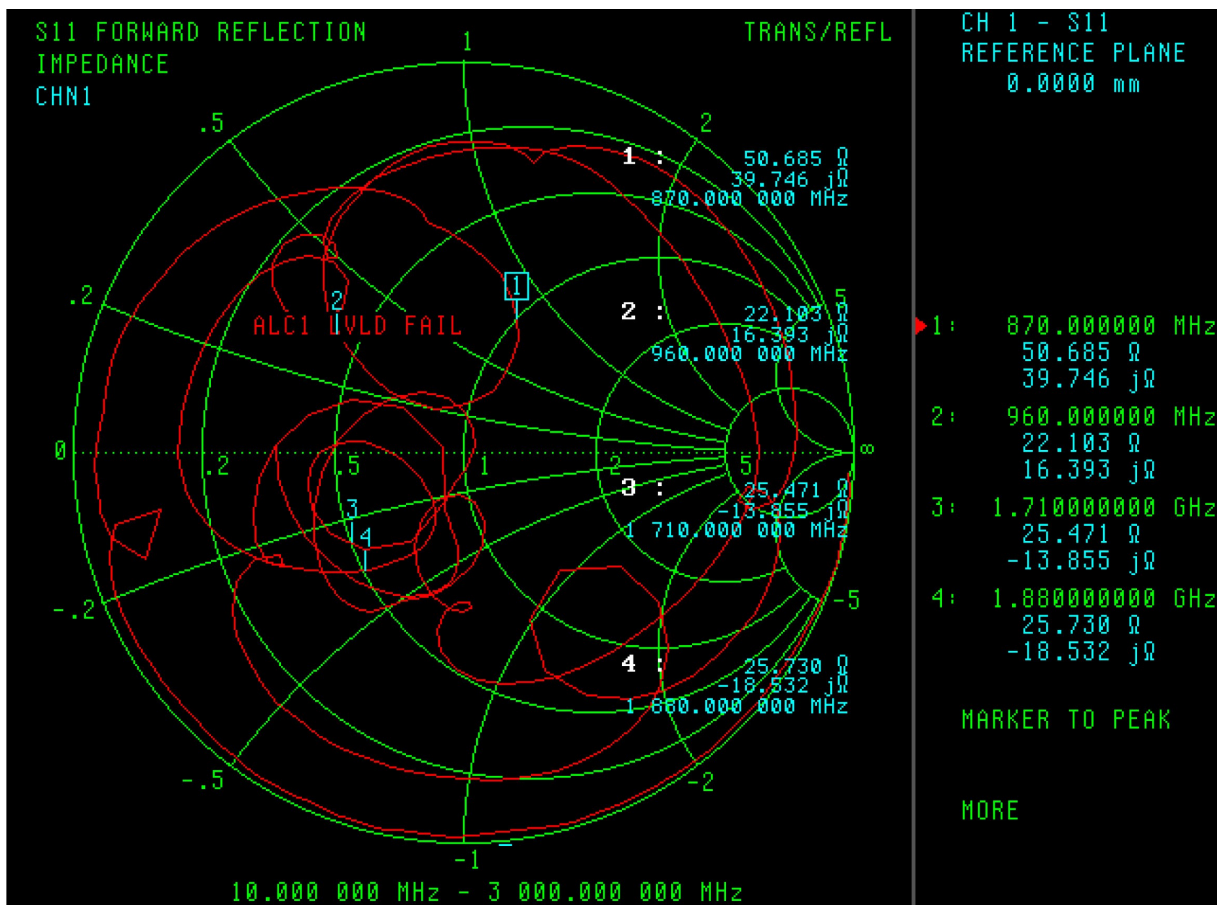


Straight Leg Version

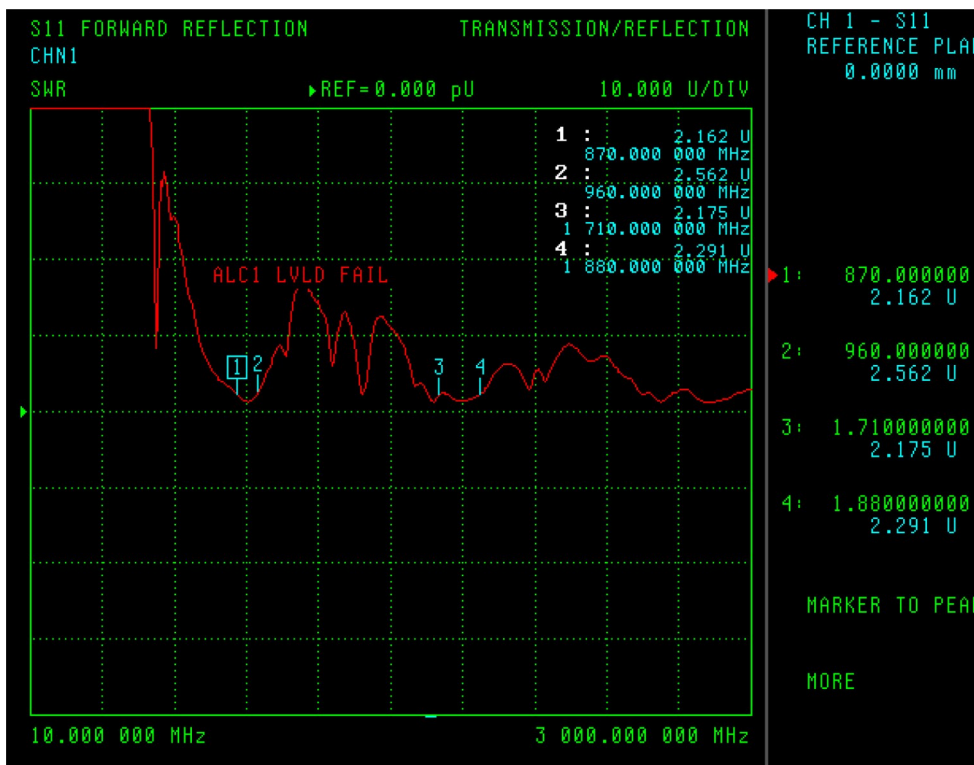
Mechanical Detail



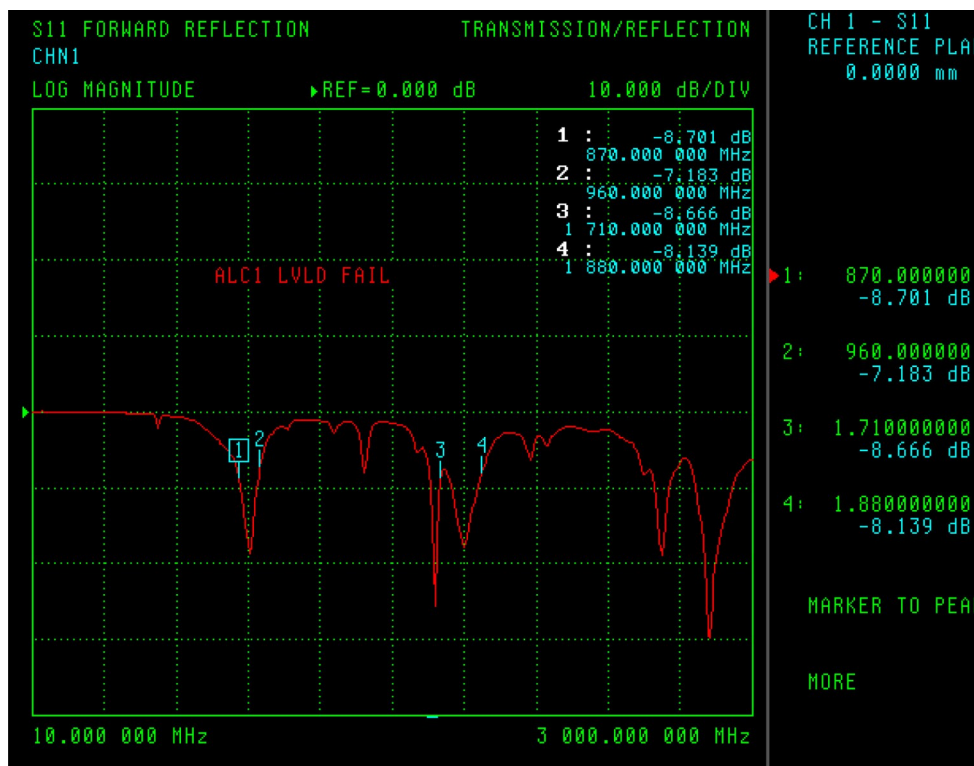
Performance Data – SMITH CHART



Performance Data – VSWR

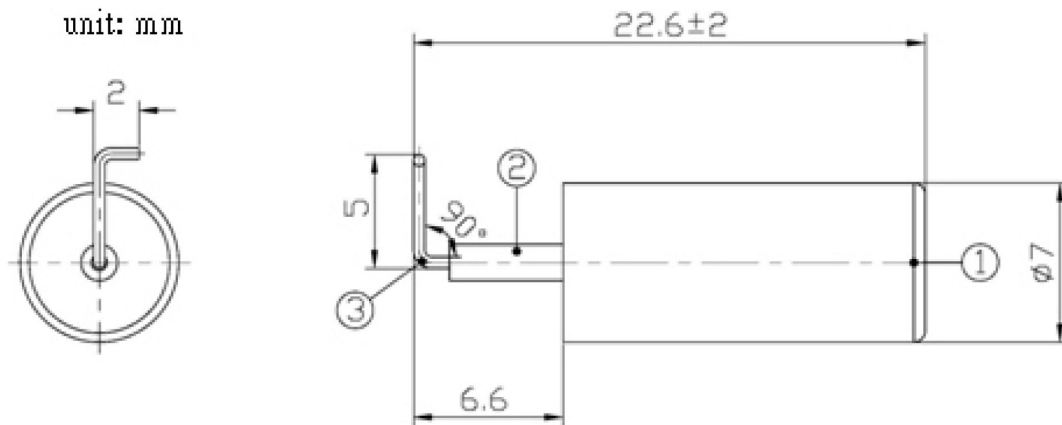


Performance Data – RETURN LOSS

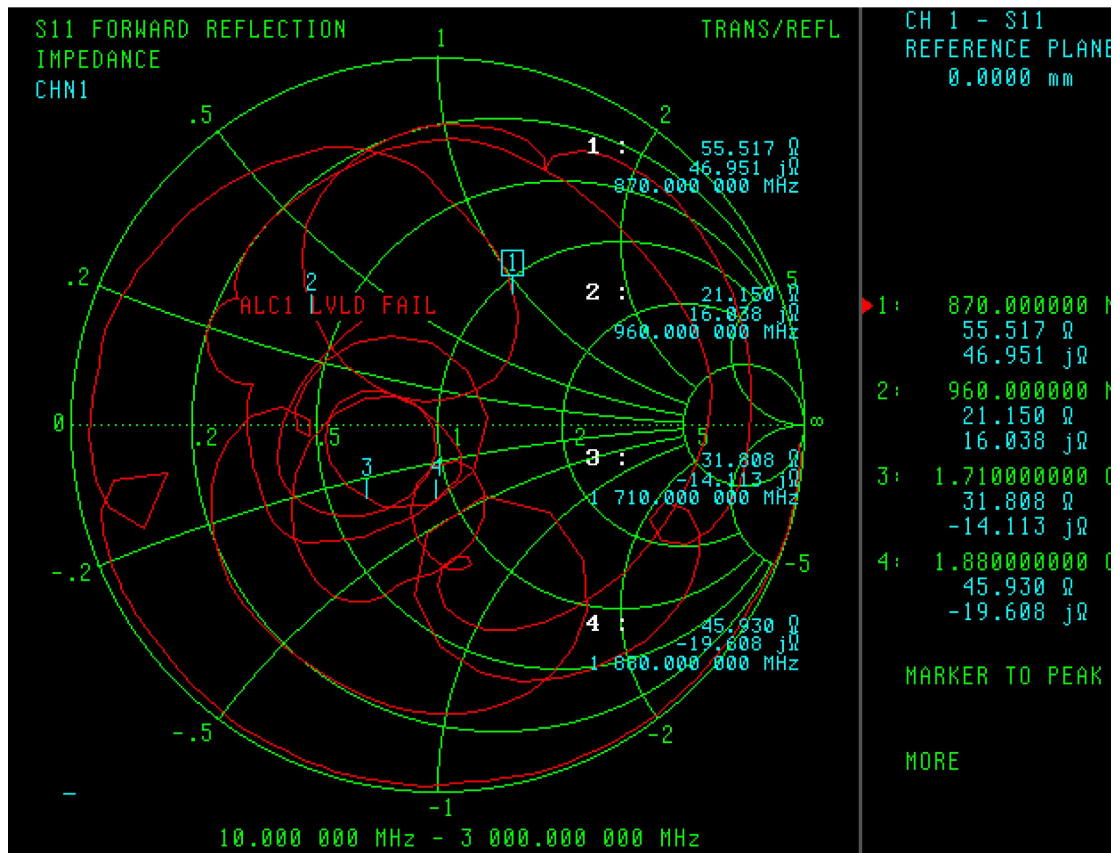


Bent Leg Version

Mechanical Detail



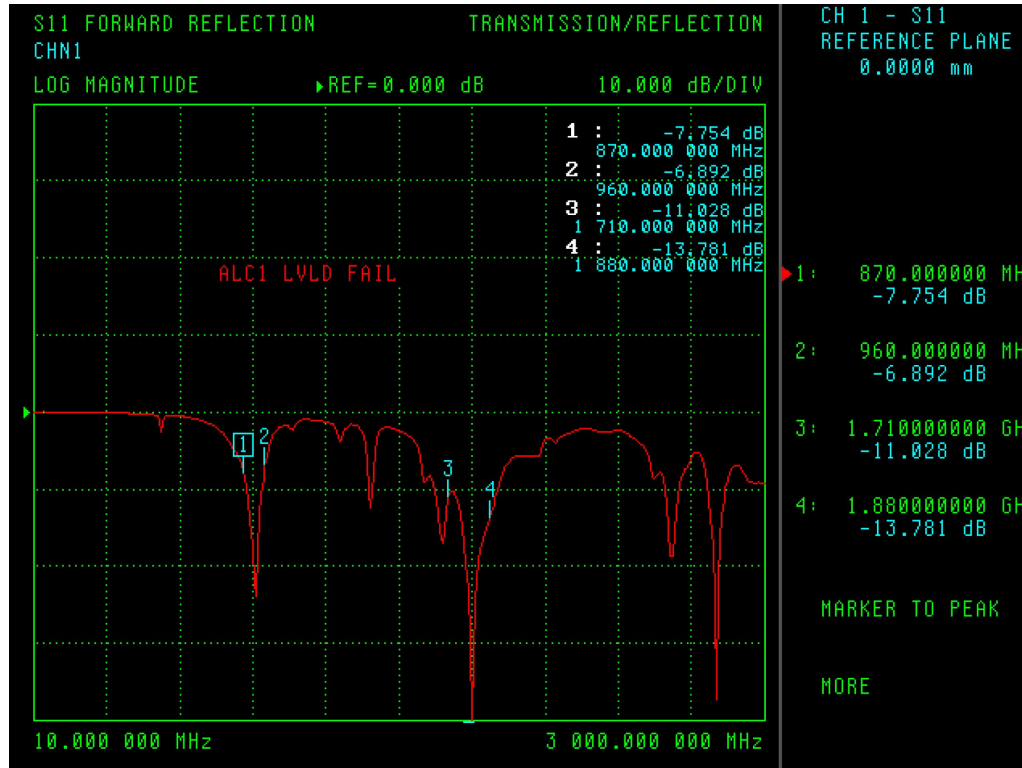
Performance Data – SMITH CHART



Performance Data – VSWR



Performance Data – RETURN LOSS



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DO NOT

Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC

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.

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.

Environment Agency producer registration number: WEE/JB0104WV.

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