



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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868MHz PCB Mounting

Features

- Omni directional Antenna
- Miniature Size:
- Length = 8.5mm
- 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-868	Miniature Bead Antenna
ANT-BEAD-86890	Miniature Bead Antenna R/A Leg

Technical Data

Parameter Description

Frequency Band	868 MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data below
V.S.W.R	2.0: 1

Mechanical

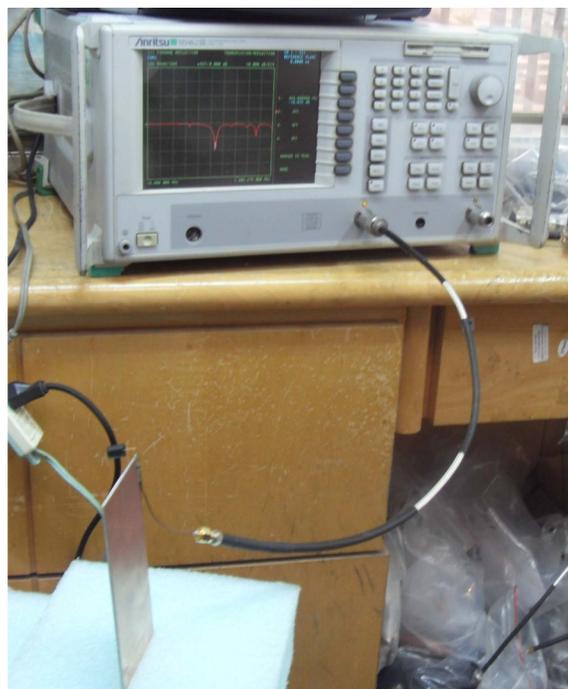
Antenna Type	External Antenna
Antenna Material	TPE EL630
Antenna Dimensions	14.5mm \pm 2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C

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.)

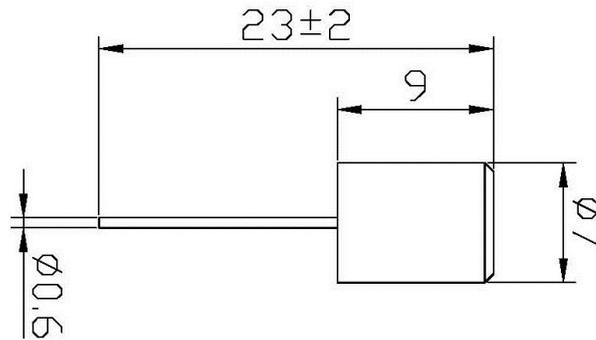
Customisation

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

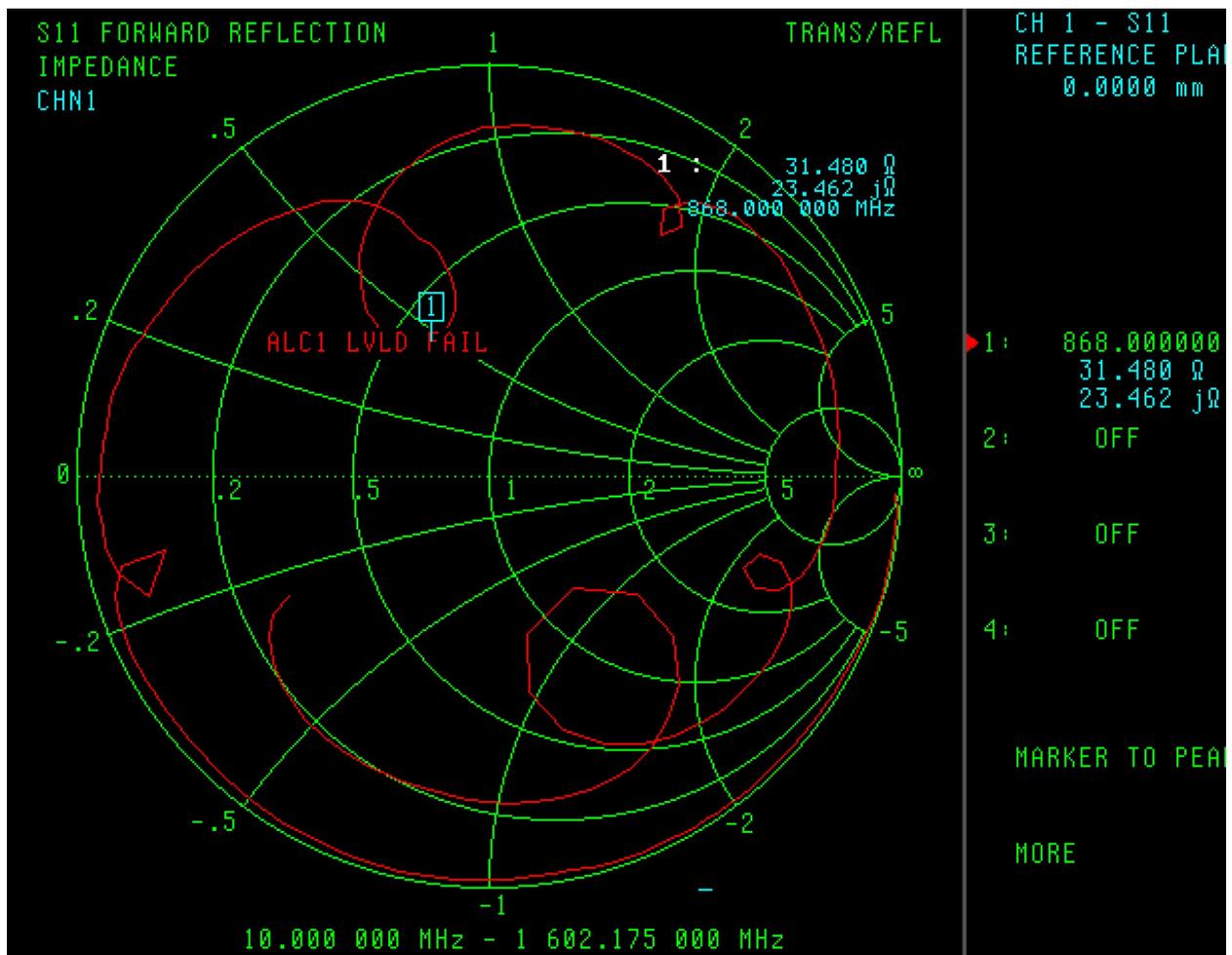


Straight Leg Version

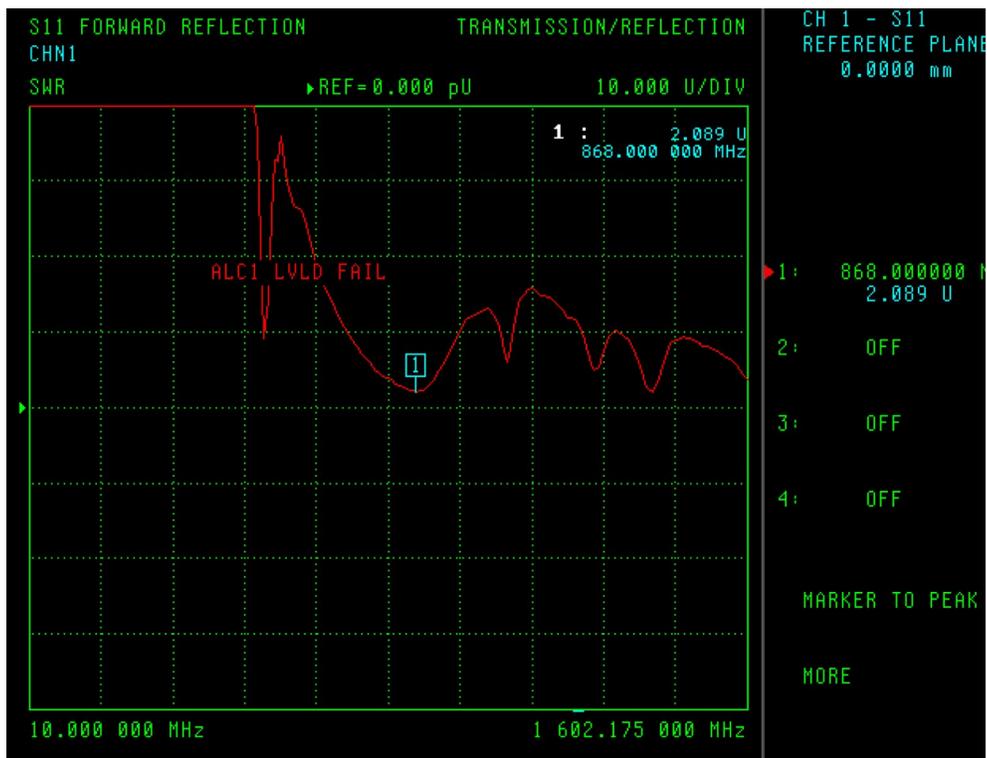
Mechanical Detail



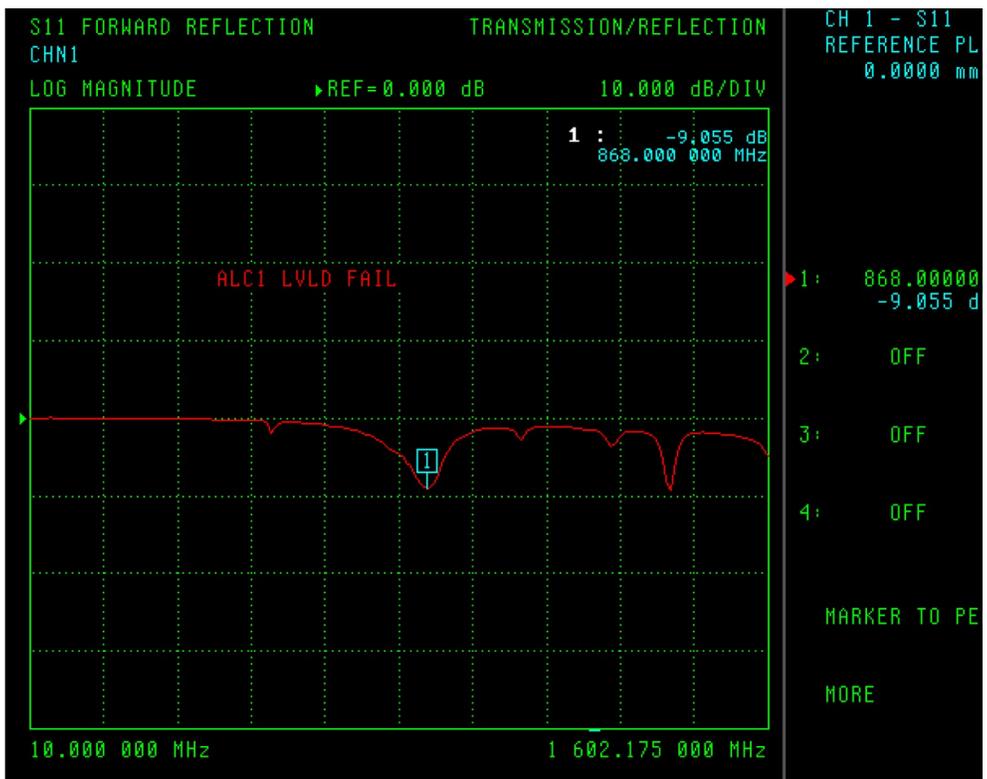
Performance Data – SMITH CHART



Performance Data – VSWR

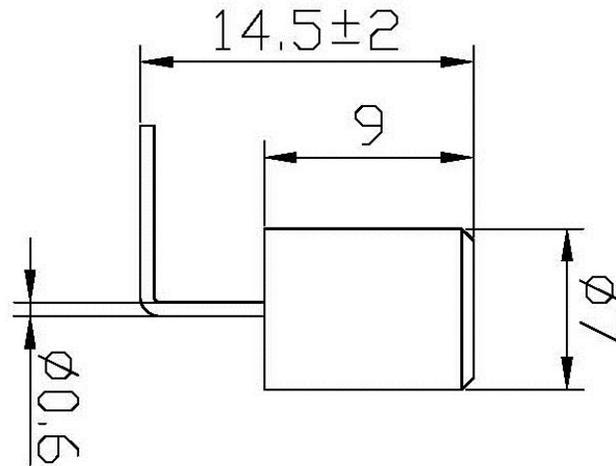


Performance Data – RETURN LOSS

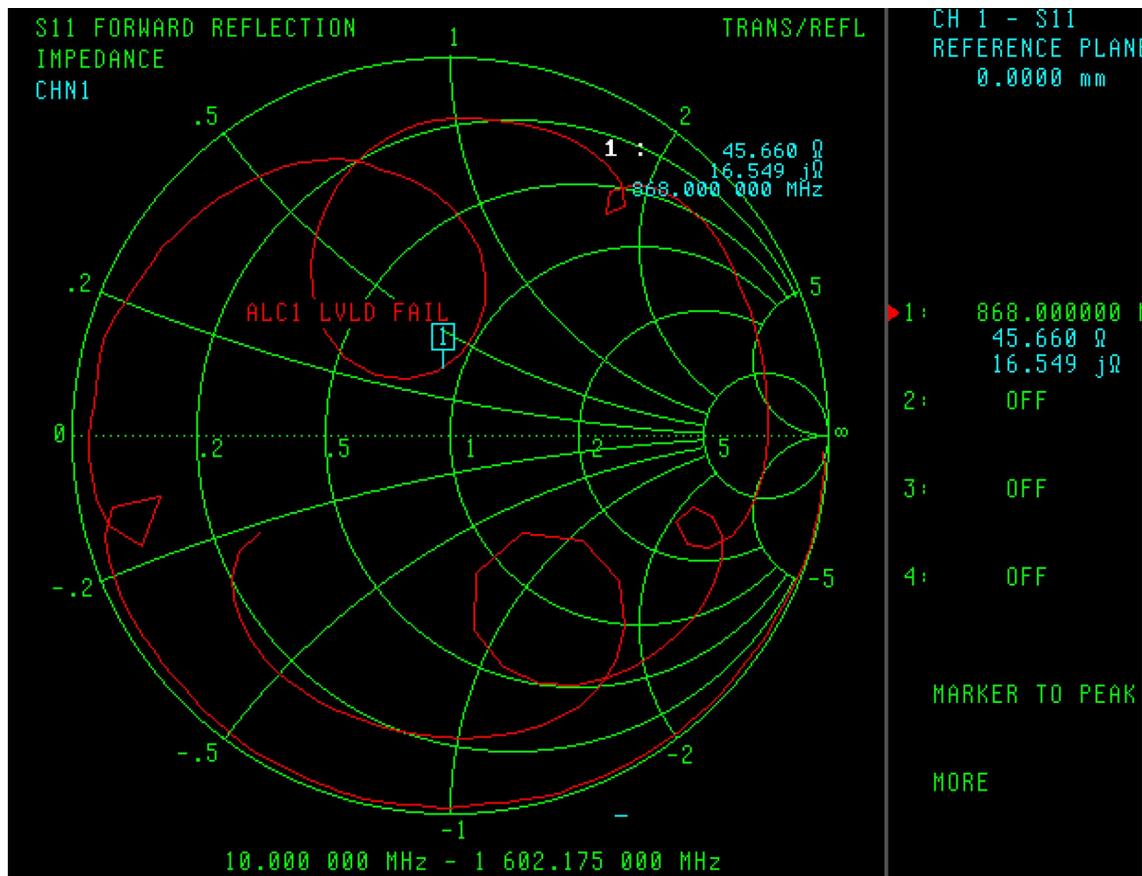


Bent Leg Version

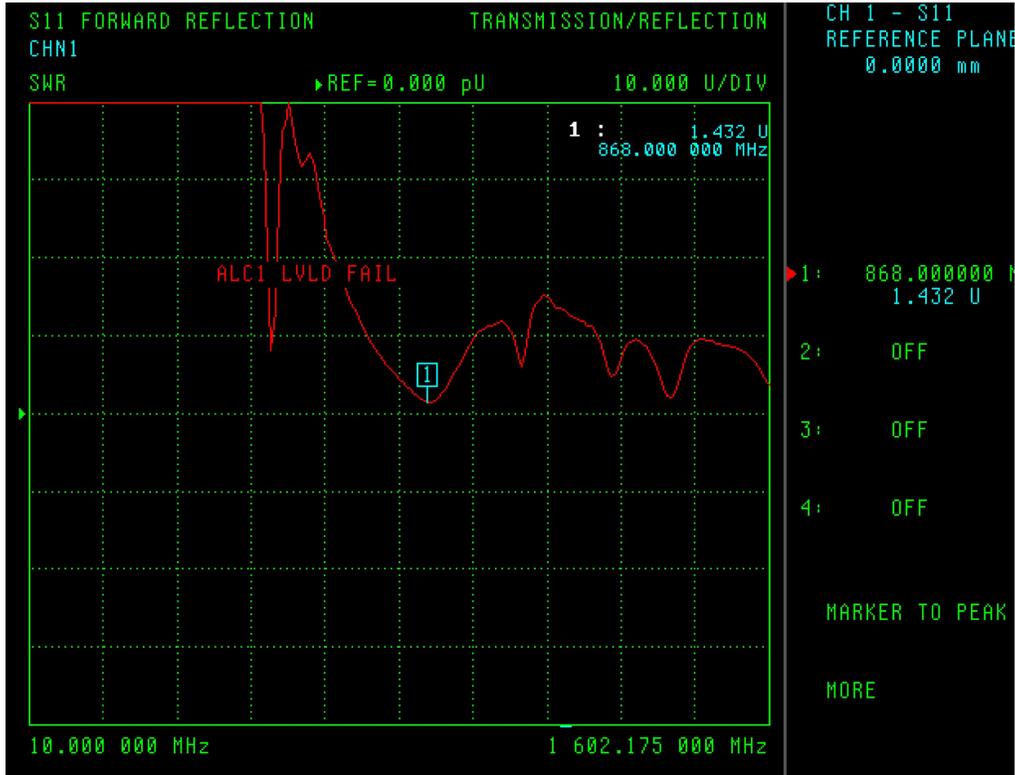
Mechanical Detail



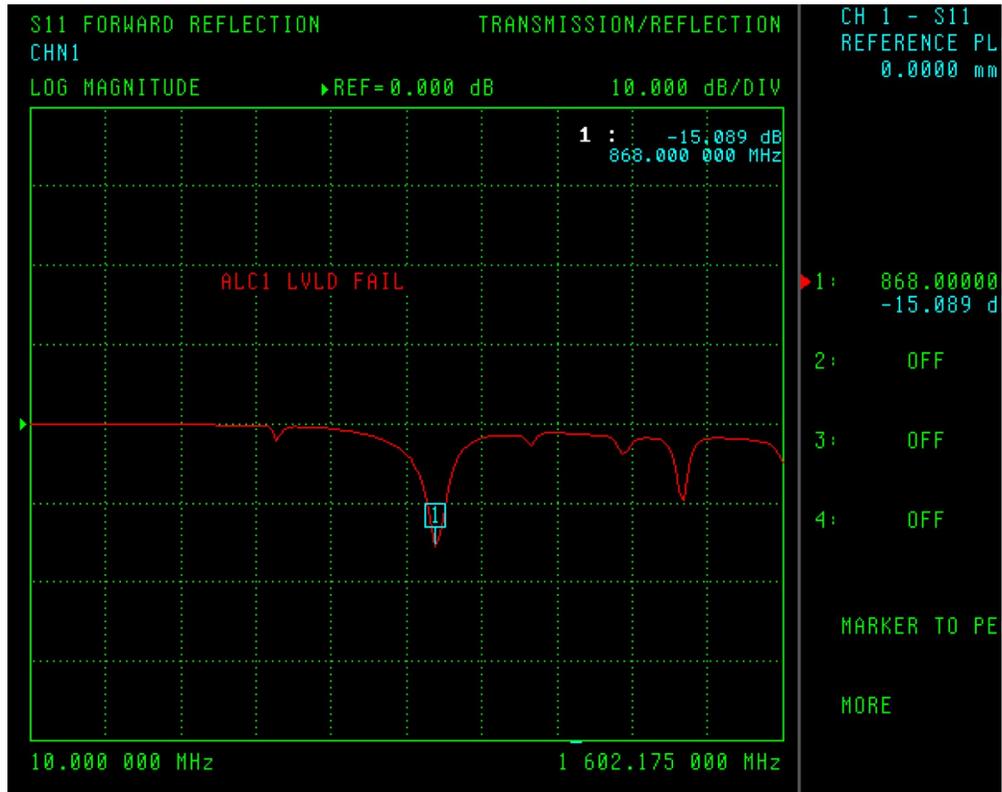
Performance Data – SMITH CHART



Performance Data – VSWR



Performance Data – RETURN LOSS



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Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC

Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC

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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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