

## 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

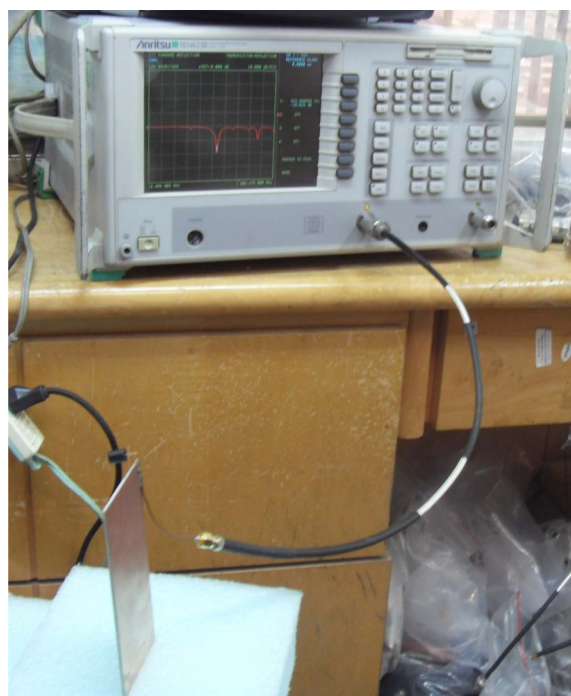
Antenna Type	External Antenna
Antenna Material	TPE EL630
Antenna Dimensions	14.5mm $\pm$ 2
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C

### 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.)

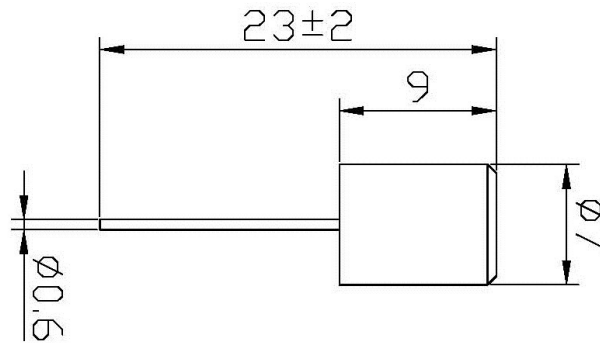
### Customisation

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

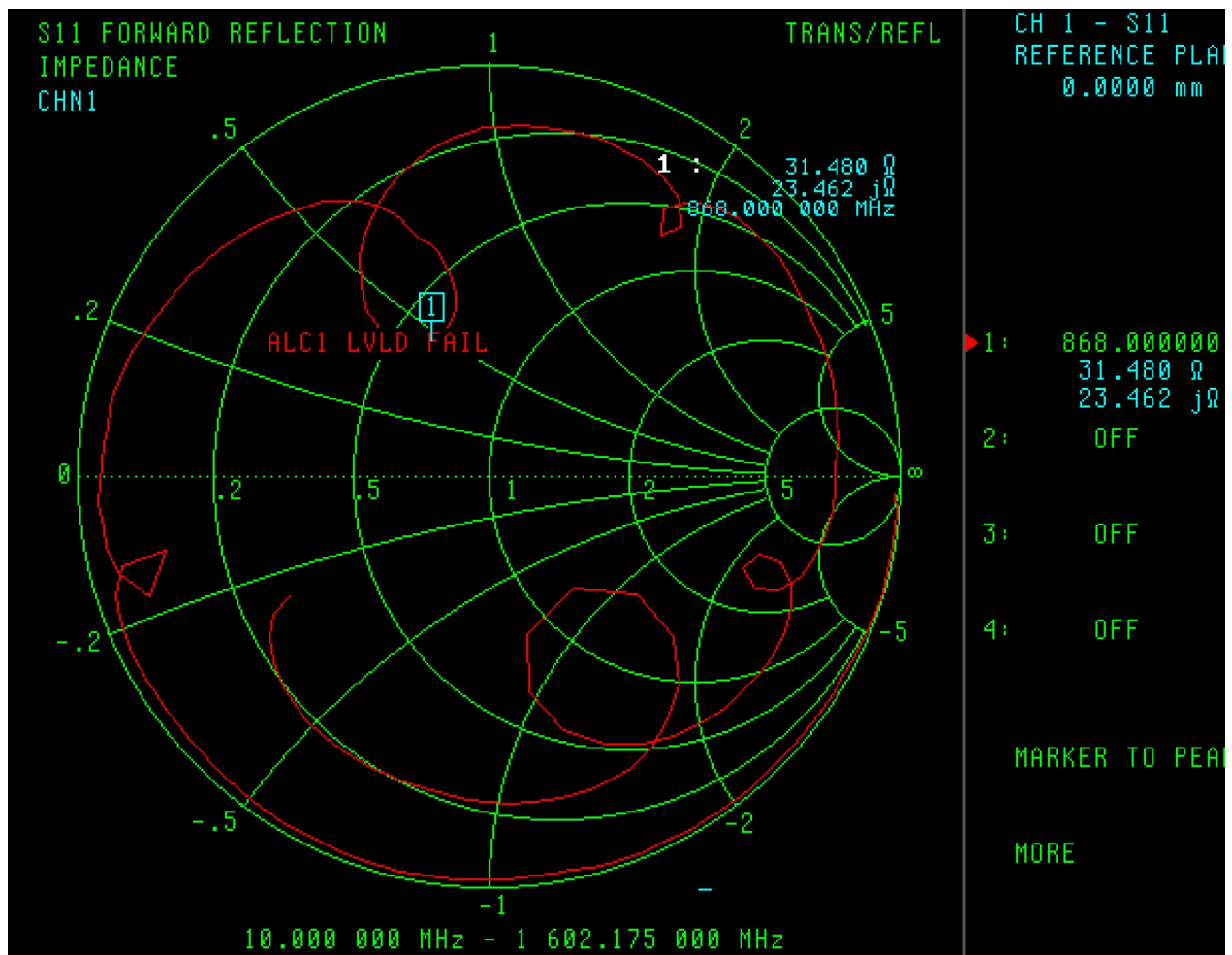


## Straight Leg Version

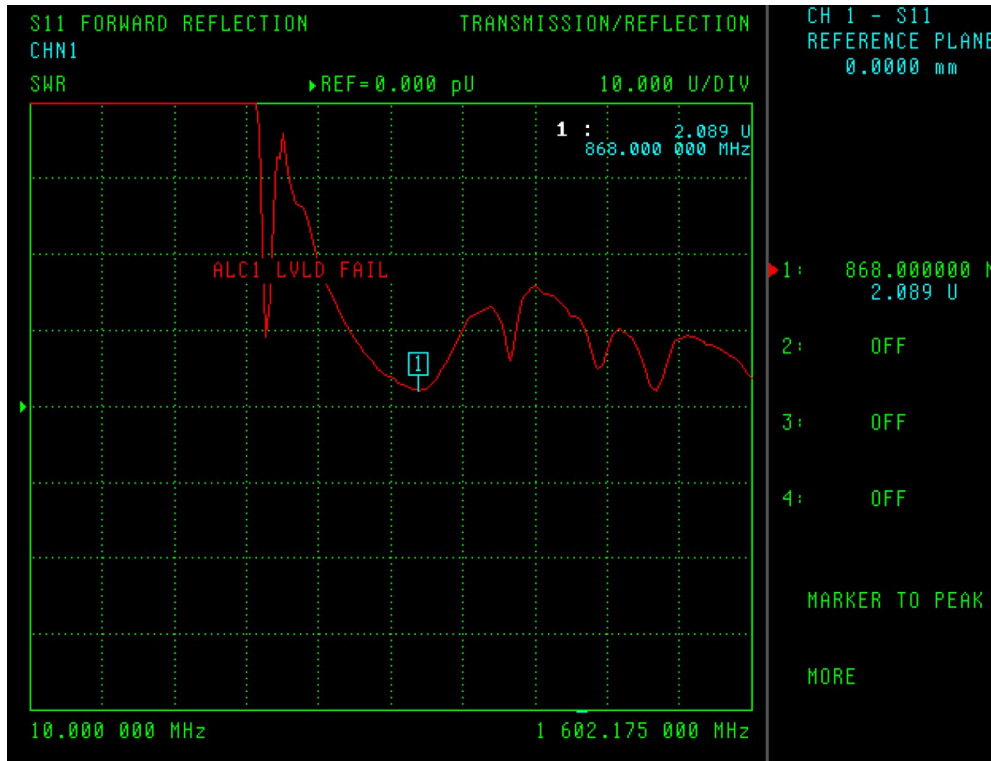
### Mechanical Detail



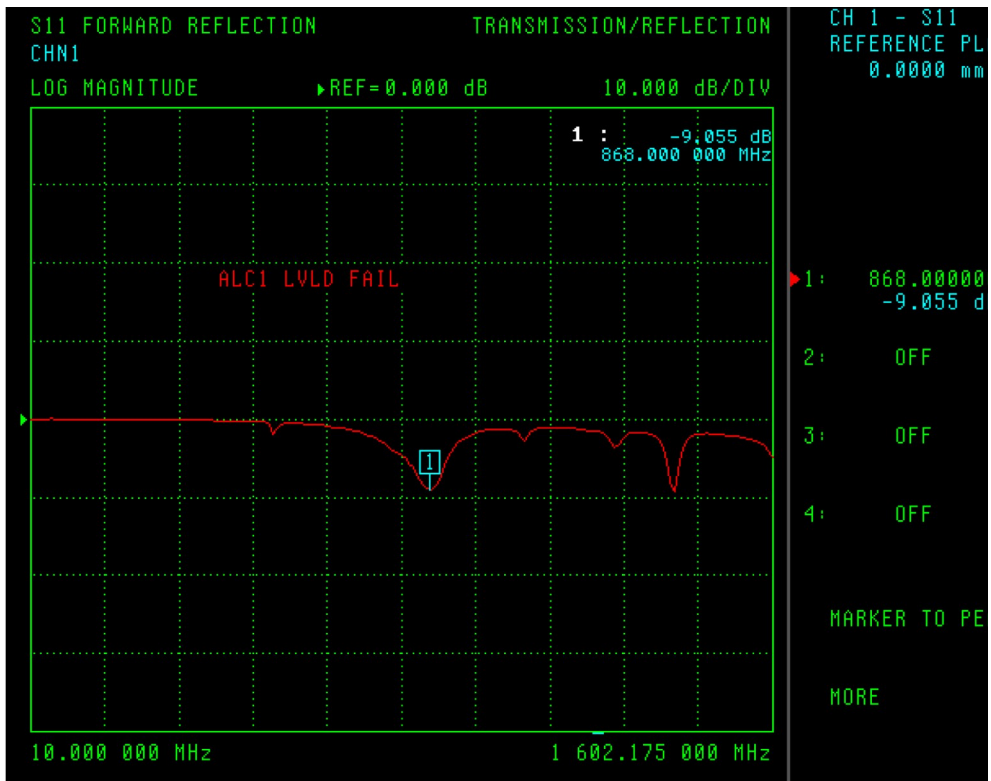
### Performance Data – SMITH CHART



## Performance Data – VSWR

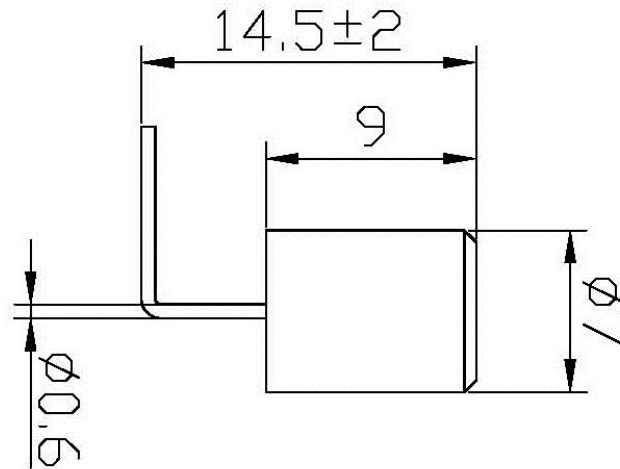


## Performance Data – RETURN LOSS

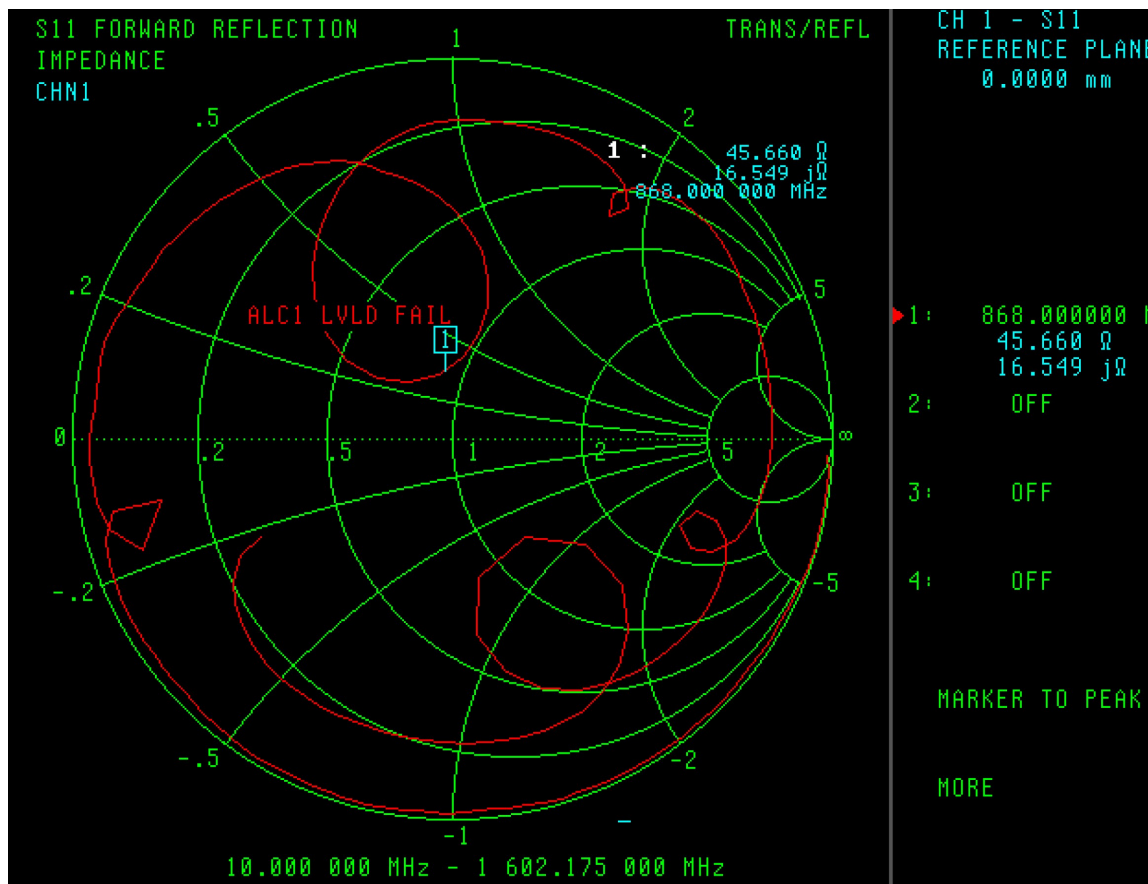


## Bent Leg Version

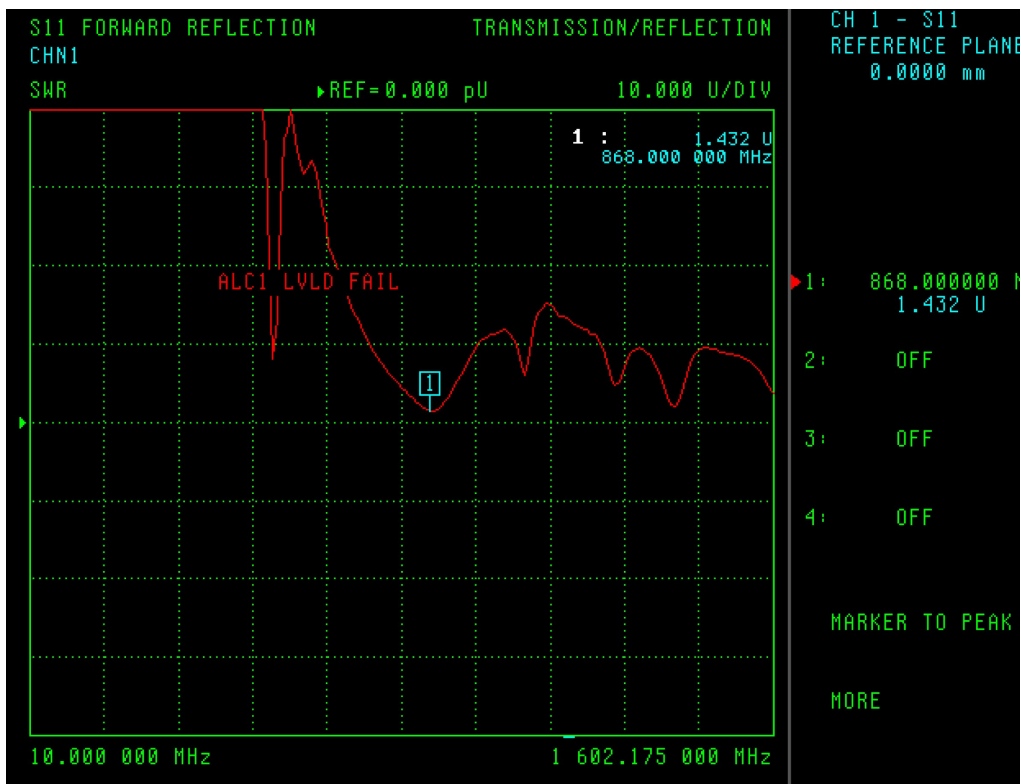
### Mechanical Detail



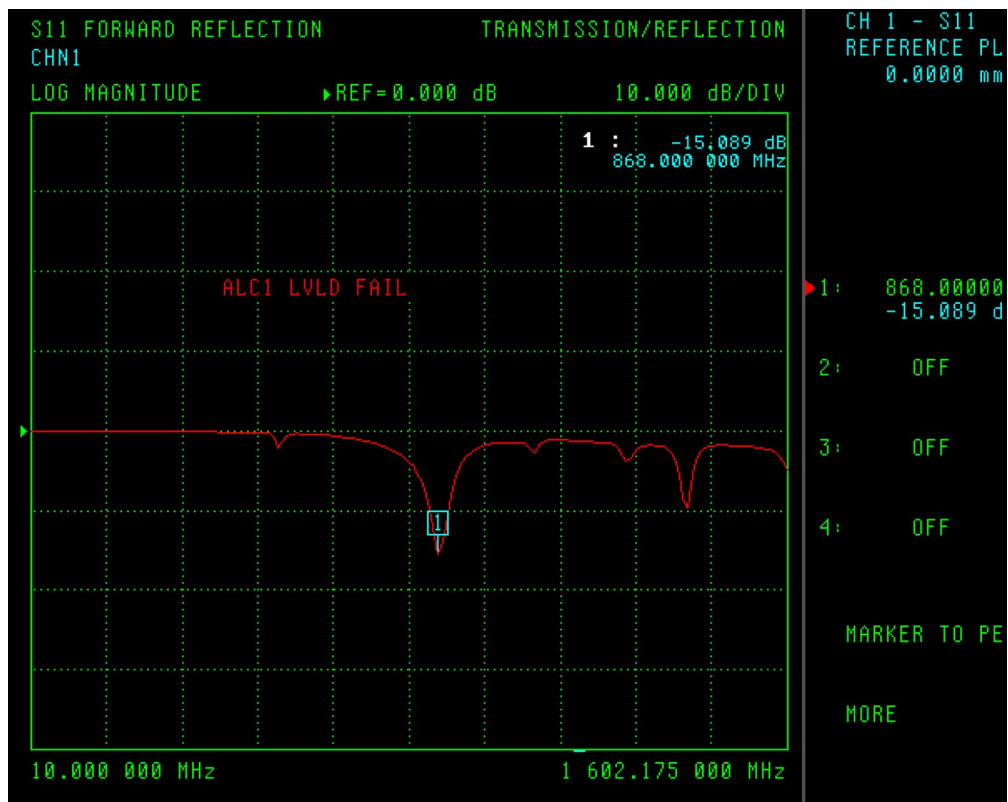
### Performance Data – SMITH CHART



## Performance Data – VSWR



## Performance Data – RETURN LOSS





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Specifies certain limits for hazardous substances.

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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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