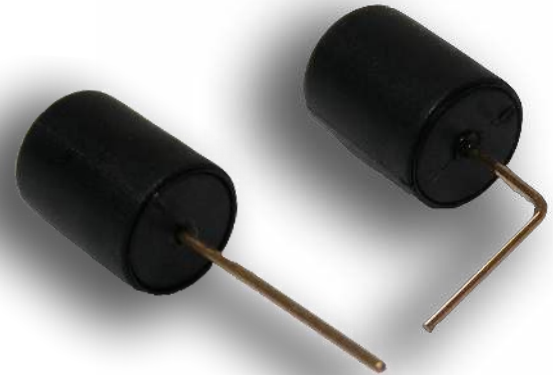




## 868MHz PCB Mounting

### Features

- Omni directional Antenna
- Miniature Size:
- Length = 8.5mm
- DIA = 7mm
- VSWR <2
- 50Ω Impedance
- 0dBi Gain (nominal)
- Housing (TPE EL630)



### 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

# ANT-BEAD-868



## 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
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## 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
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.)

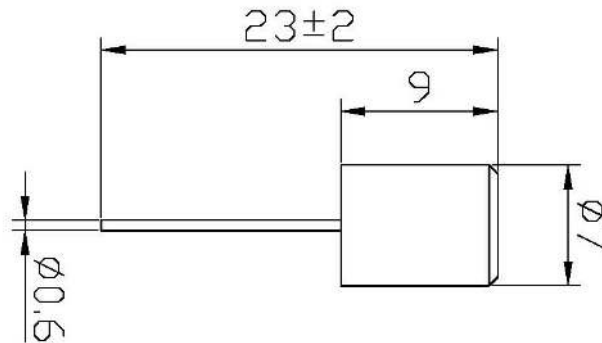
## Customisation

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

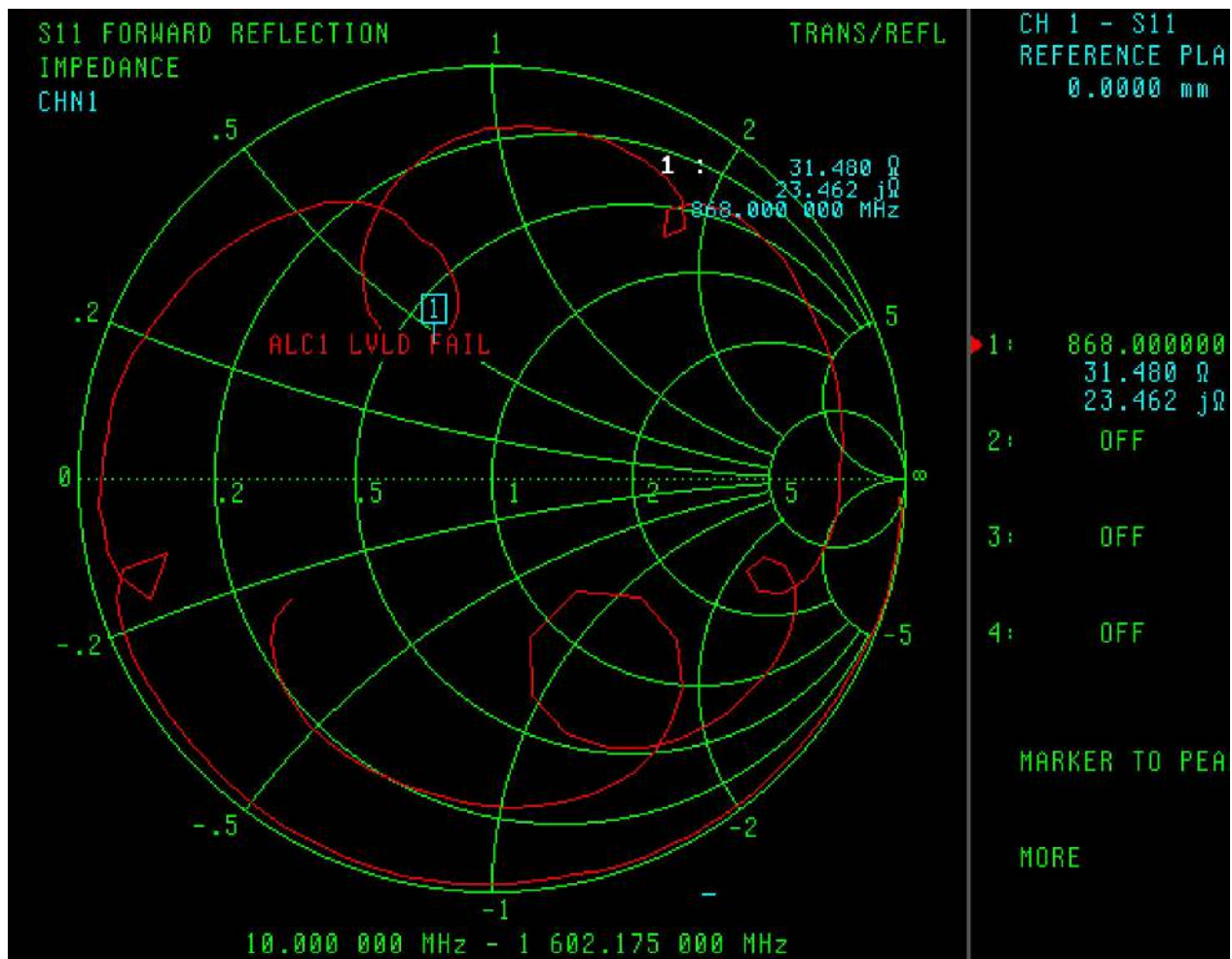


## Straight Leg Version

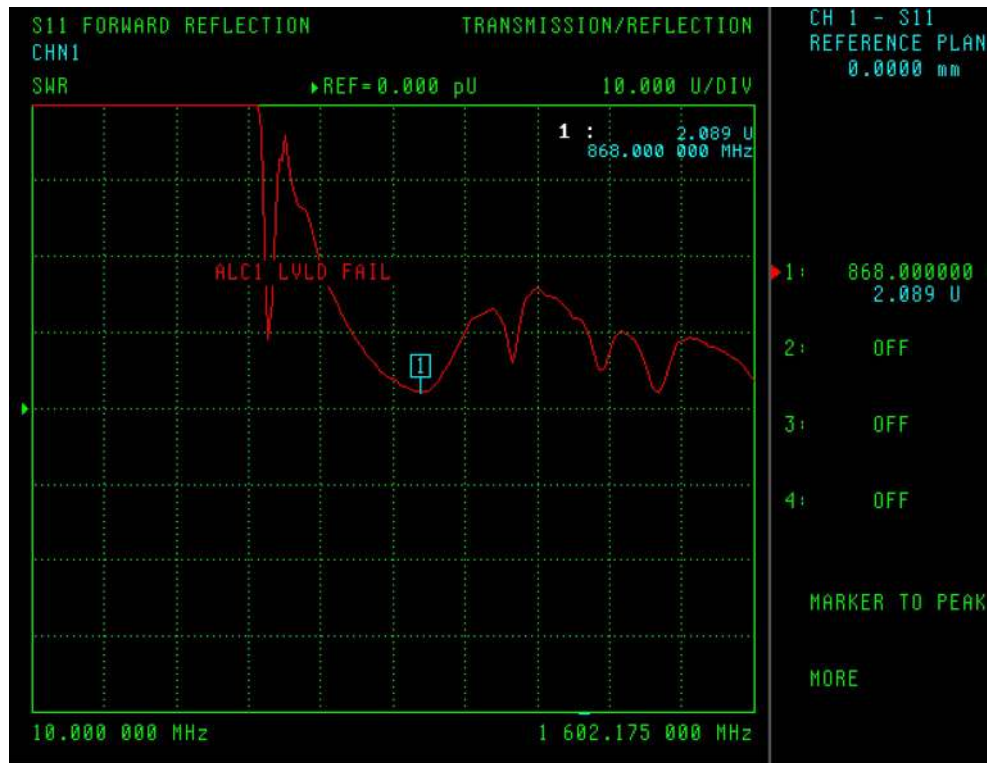
### Mechanical Detail



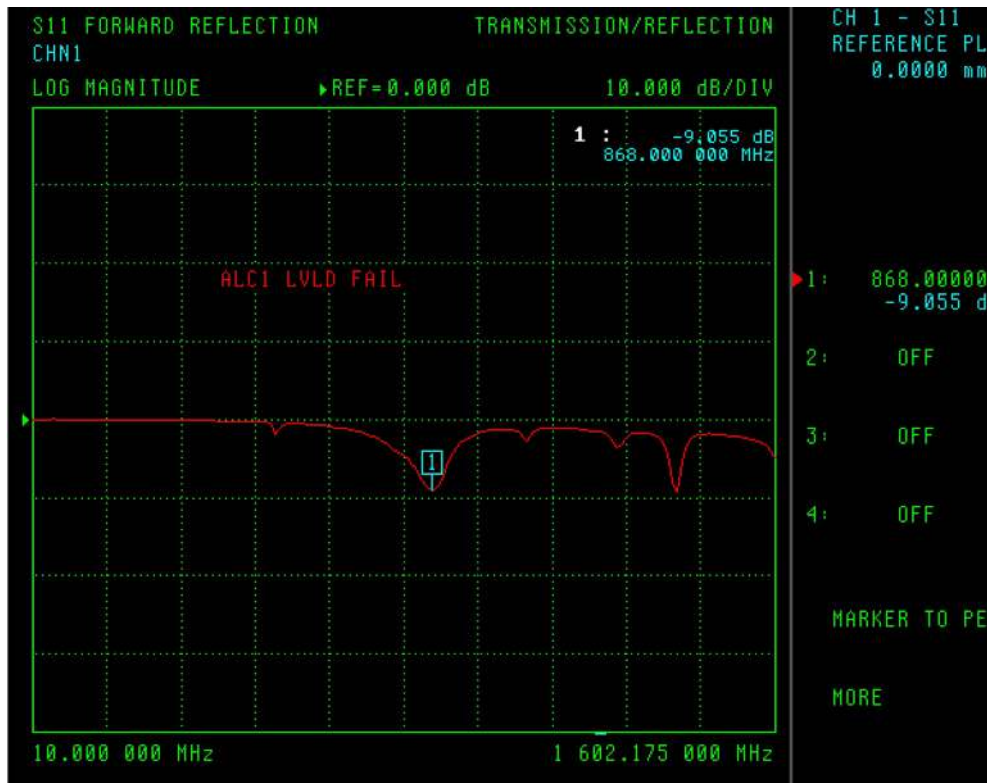
### Performance Data — SMITH CHART



## Performance Data — VSWR

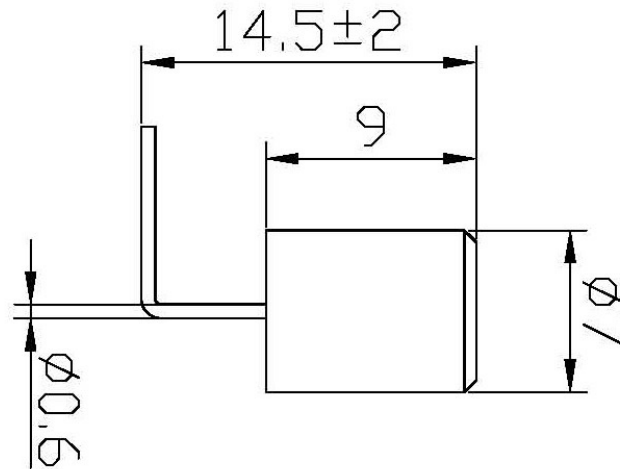


## Performance Data — RETURN LOSS

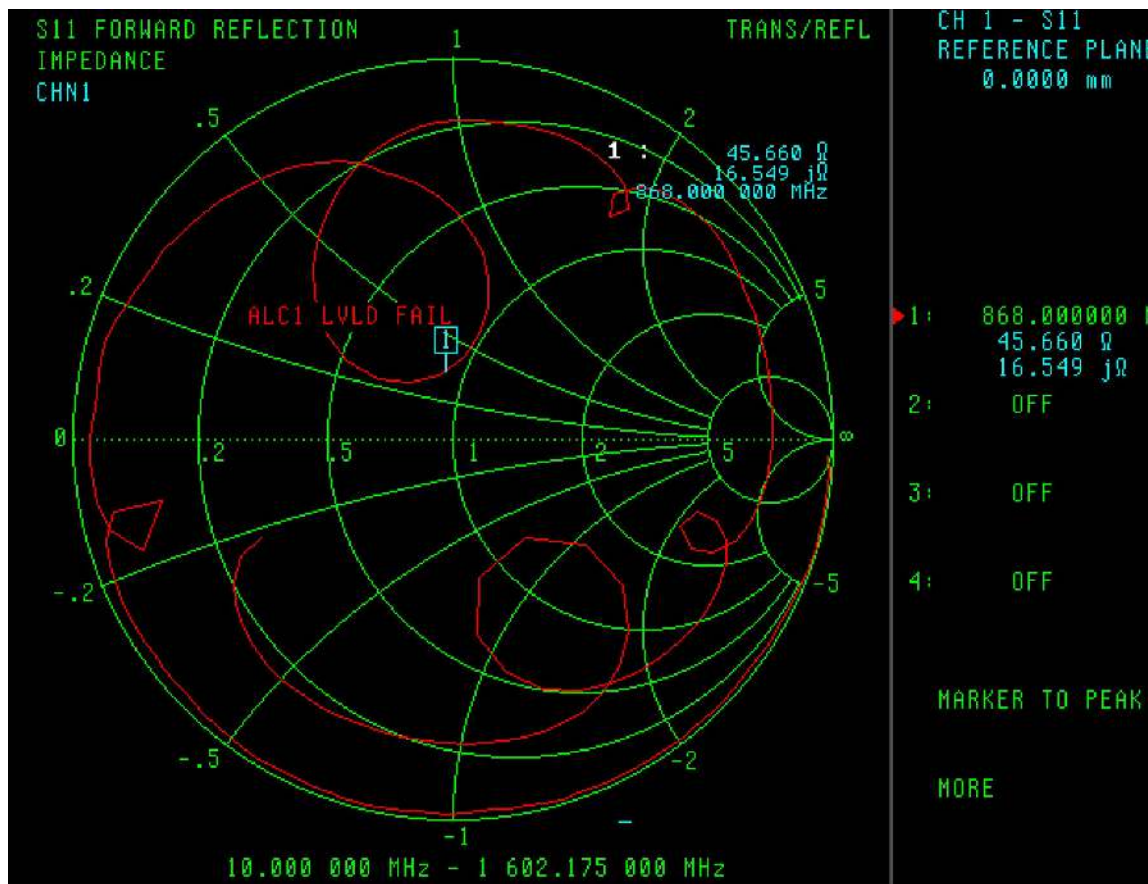


## Bent Leg Version

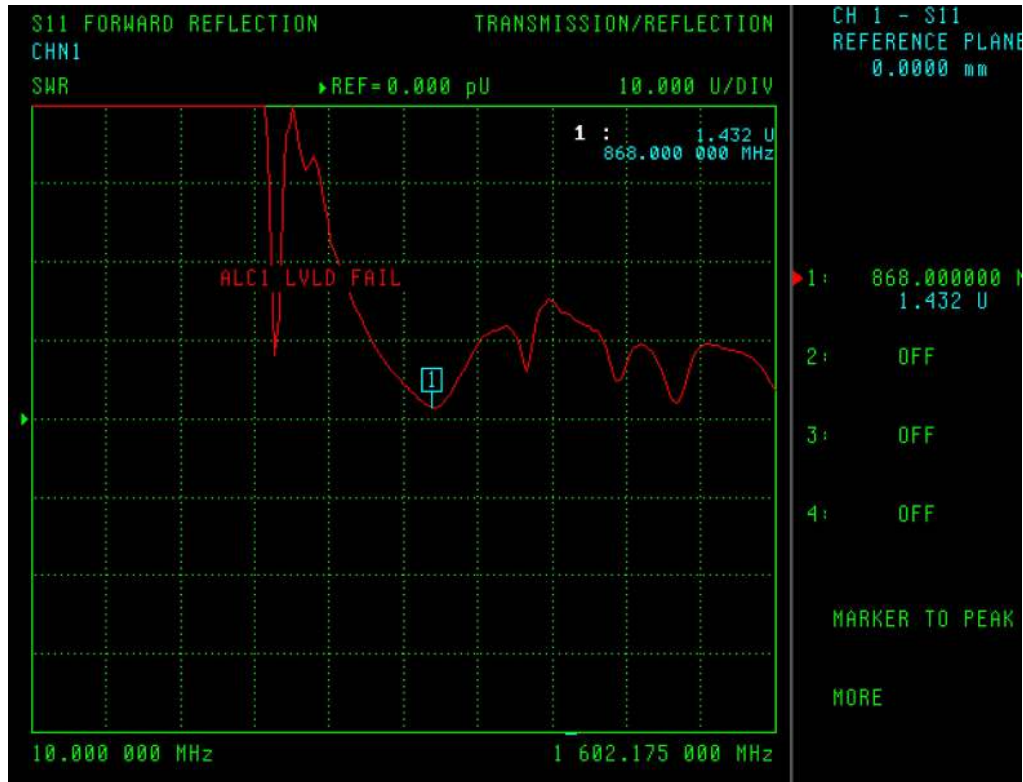
### Mechanical Detail



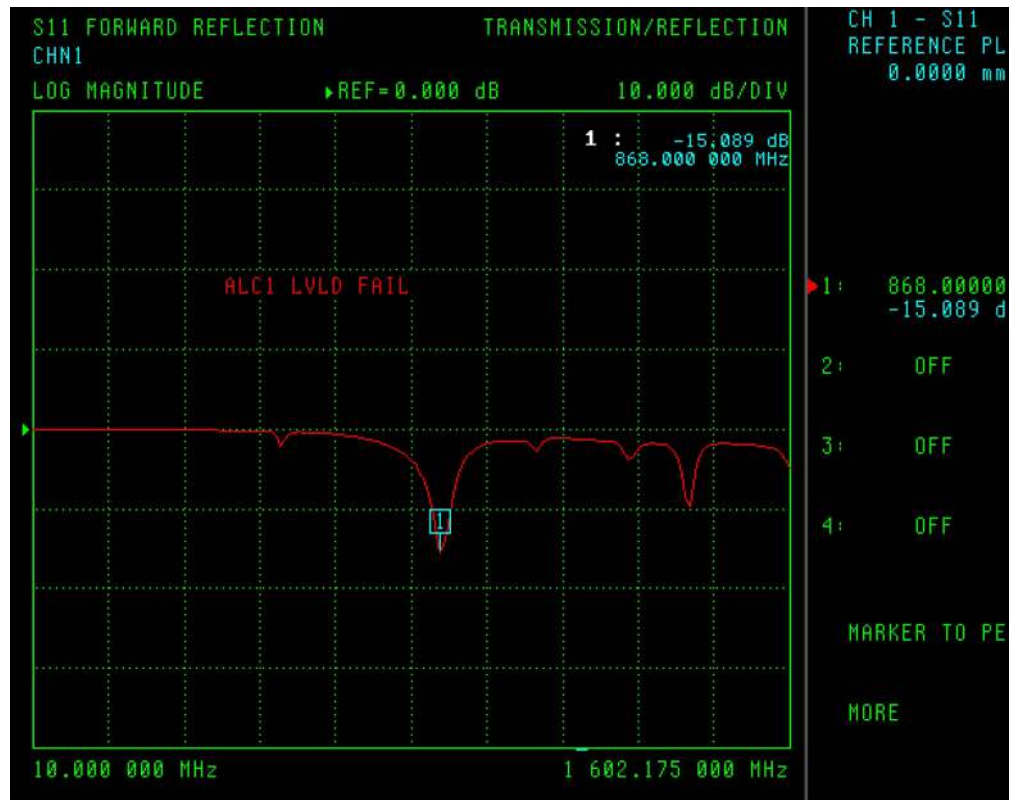
### Performance Data — SMITH CHART



## Performance Data — VSWR



## Performance Data — RETURN LOSS



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Meets the following EC Directives:

### **DO NOT**

Discard with normal waste, please recycle.

### **ROHS Directive 2011/65/EU and amendment 2015/863/EU**

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.

Environment Agency producer registration number: **WEE/JB0104WV**.

## **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.

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