# 868MHz Antenna

# 868MHz PCB Mounting

#### Features

- Omni directional Antenna
- Miniature Size:
- Length = 8.5mm
- 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-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 ±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:  $137(L) \times 57(W) \times 1(H) \text{ mm}$  (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.



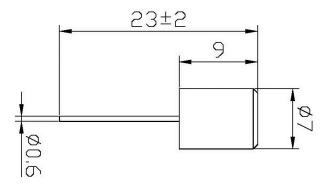




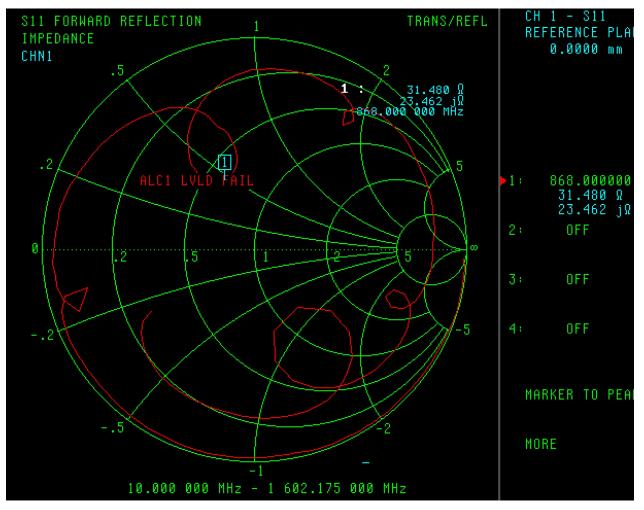


# **Straight Leg Version**

**Mechanical Detail** 

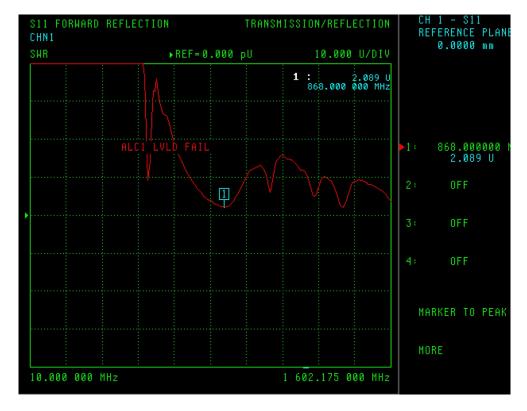


### Performance Data — SMITH CHART

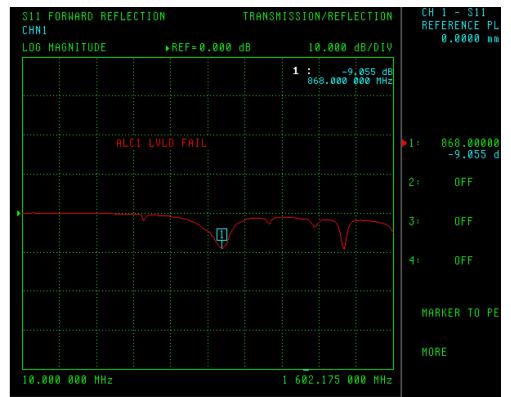




Performance Data – VSWR



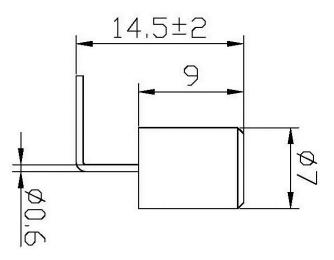
## Performance Data — RETURN LOSS



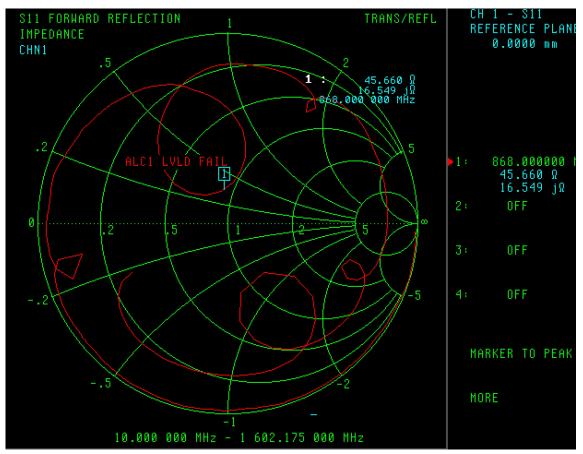


# **Bent Leg Version**

**Mechanical Detail** 

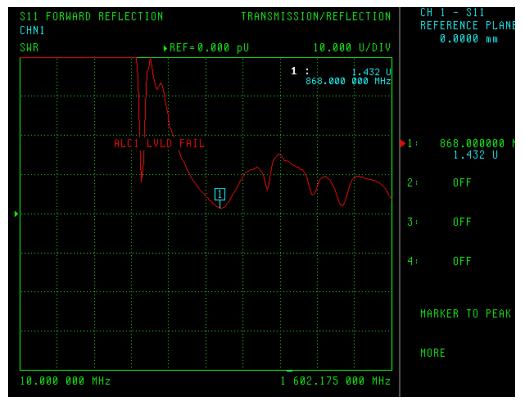


## Performance Data — SMITH CHART





## Performance Data – VSWR



## Performance Data — RETURN LOSS





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