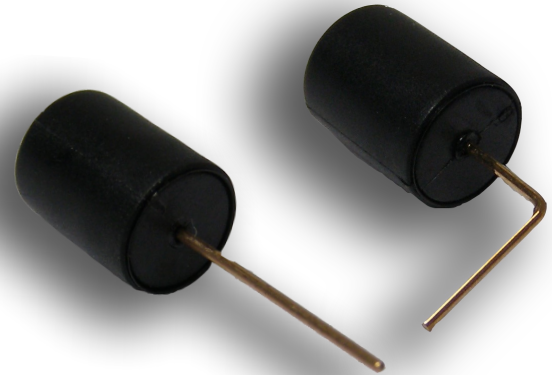




868MHz PCB Mounting

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

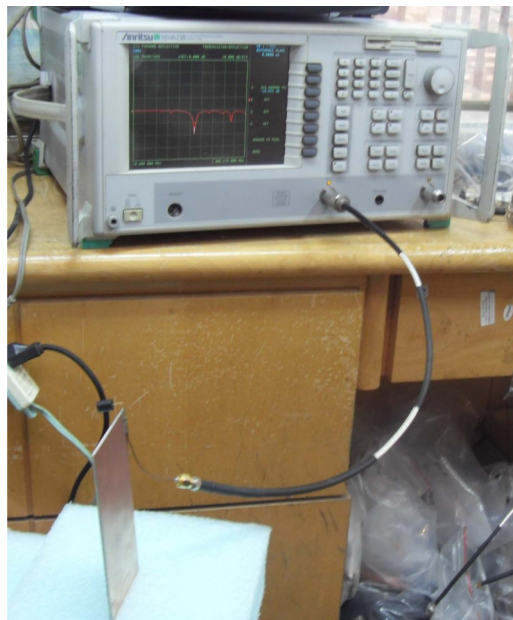
Notes

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.)

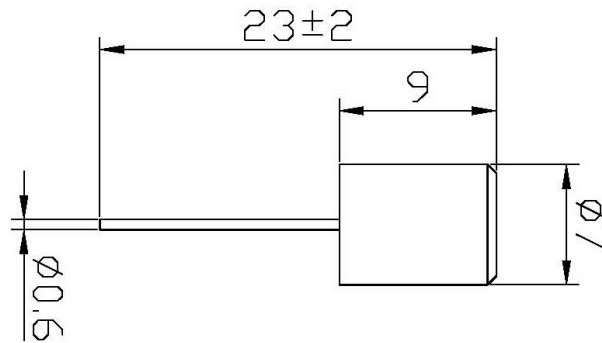
Customisation

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

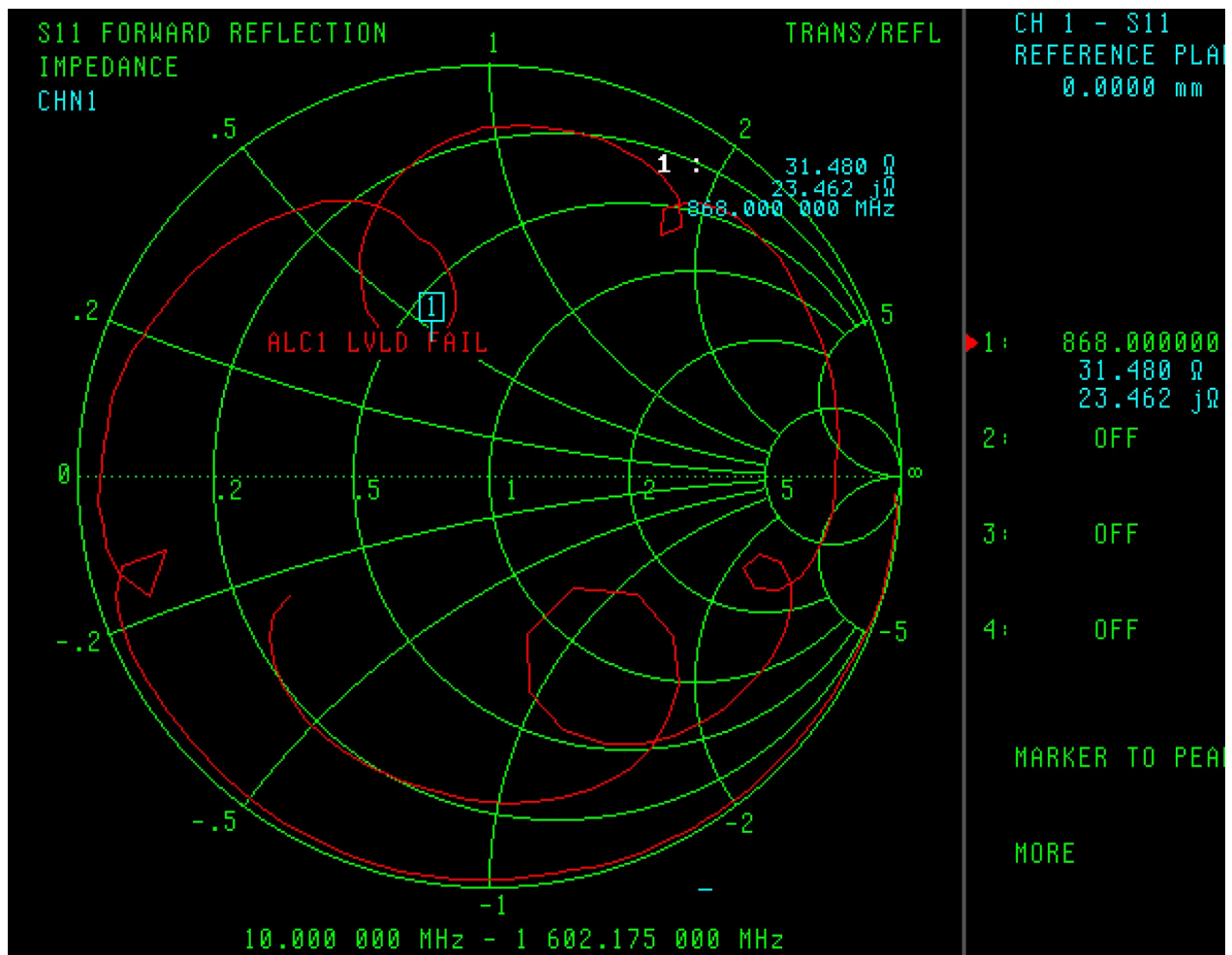


Straight Leg Version

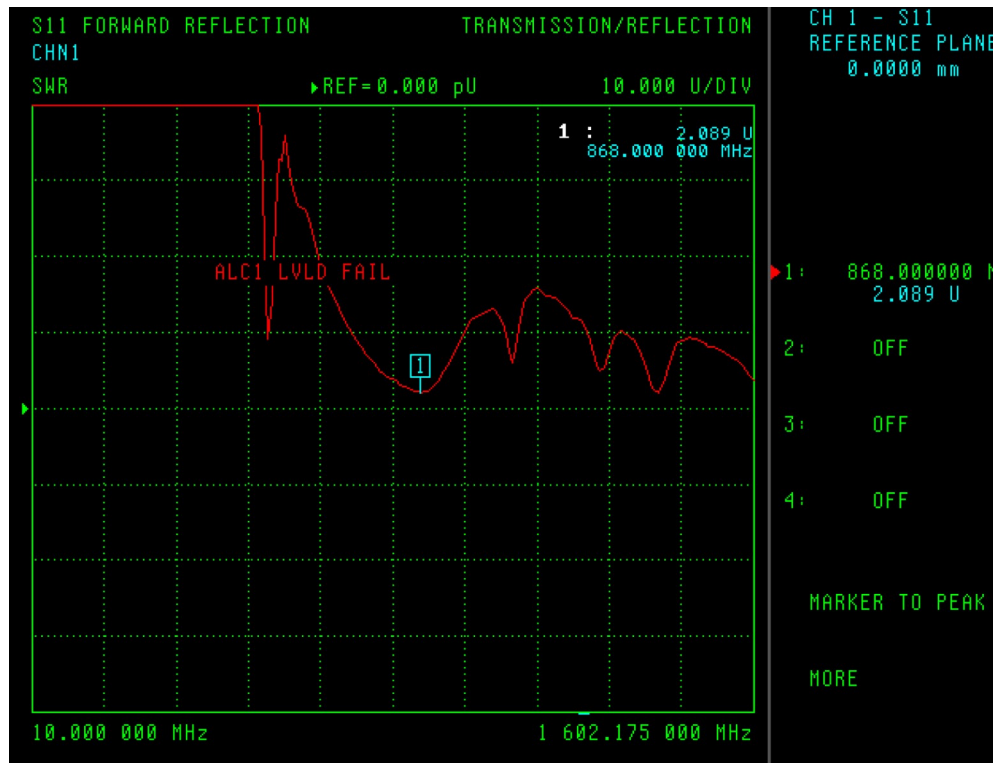
Mechanical Detail



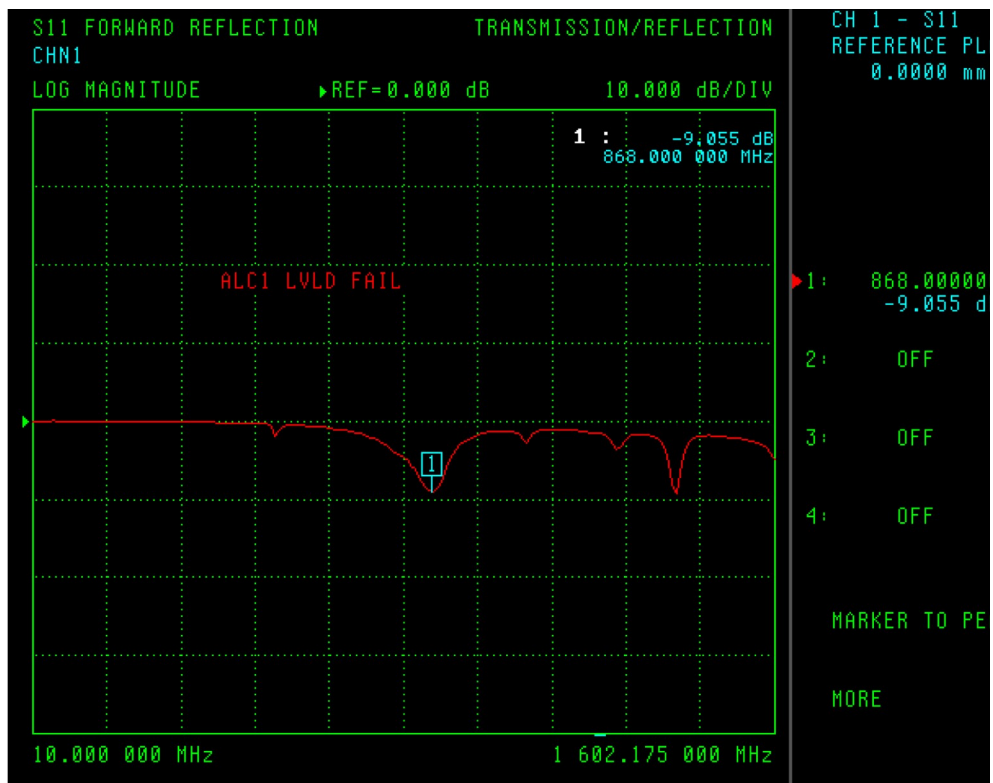
Performance Data — SMITH CHART



Performance Data — VSWR

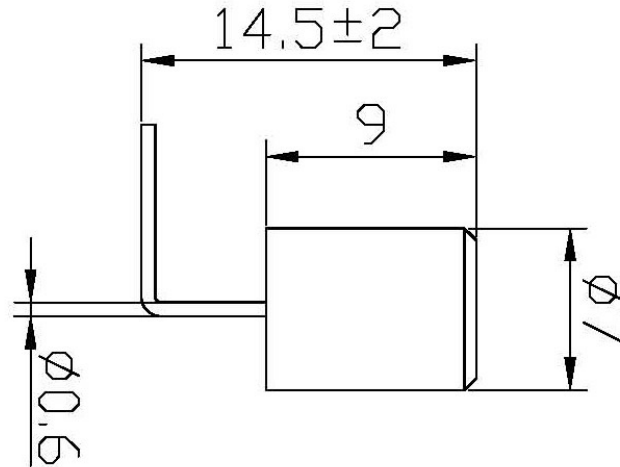


Performance Data — RETURN LOSS

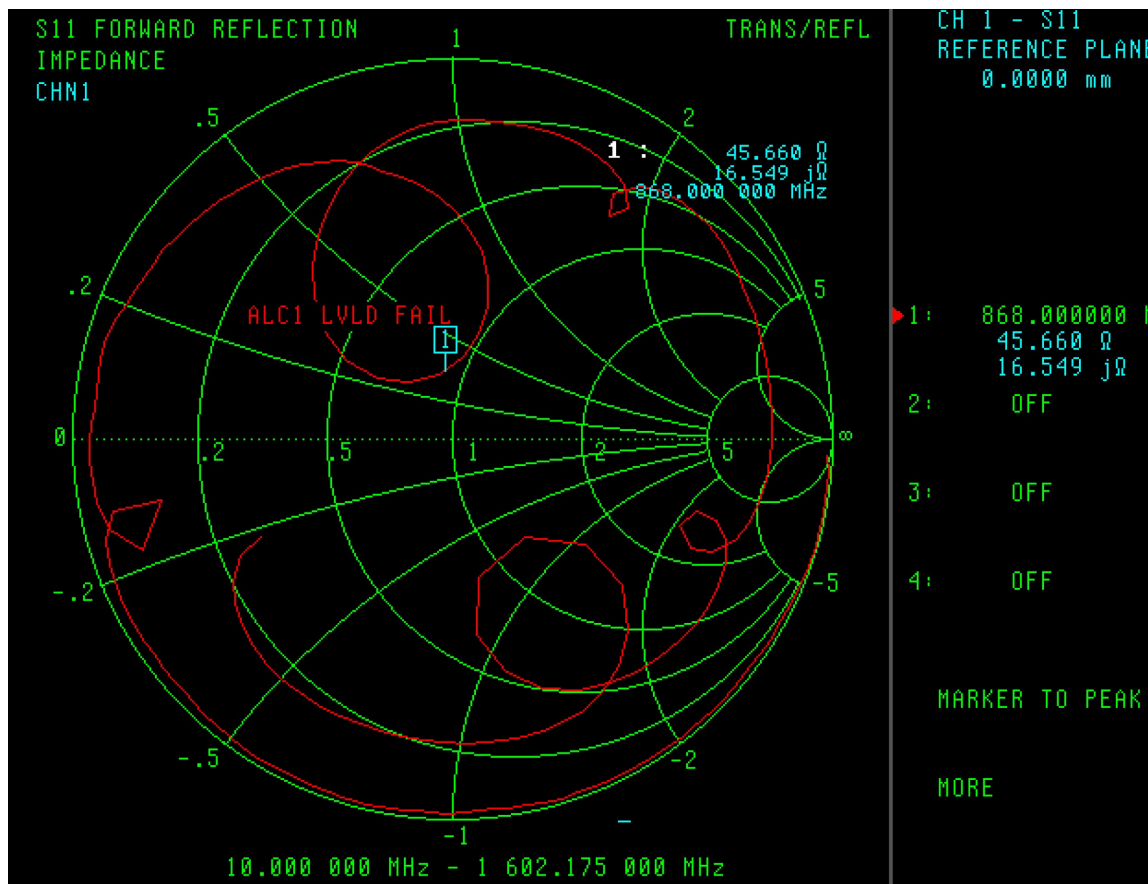


Bent Leg Version

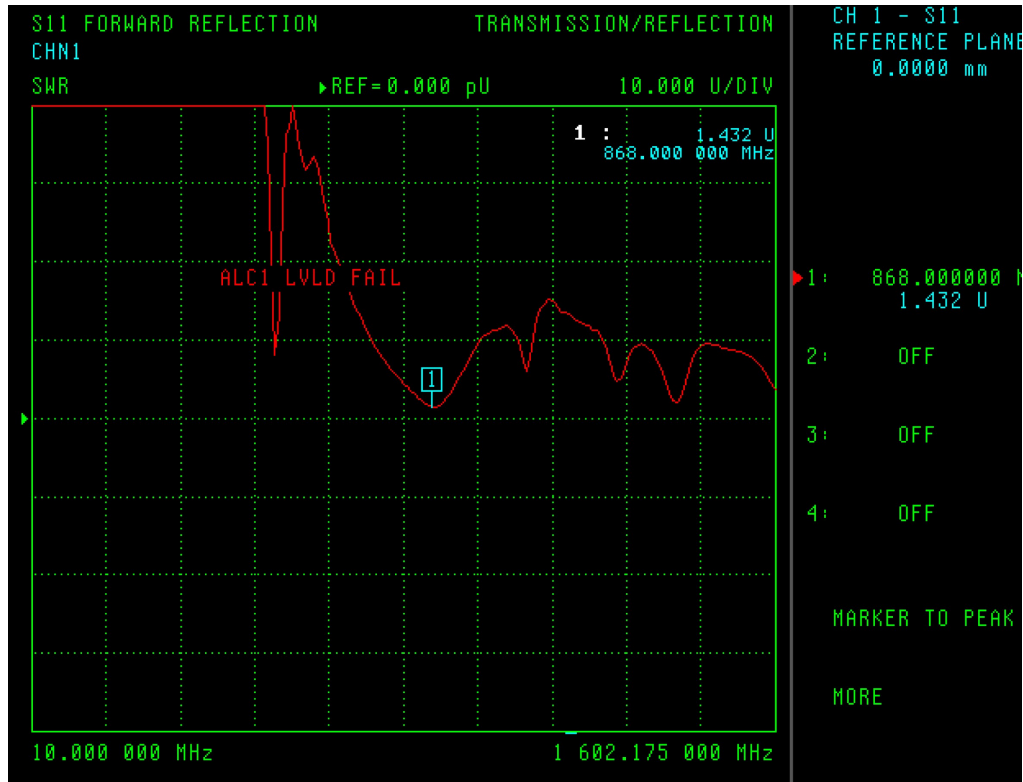
Mechanical Detail



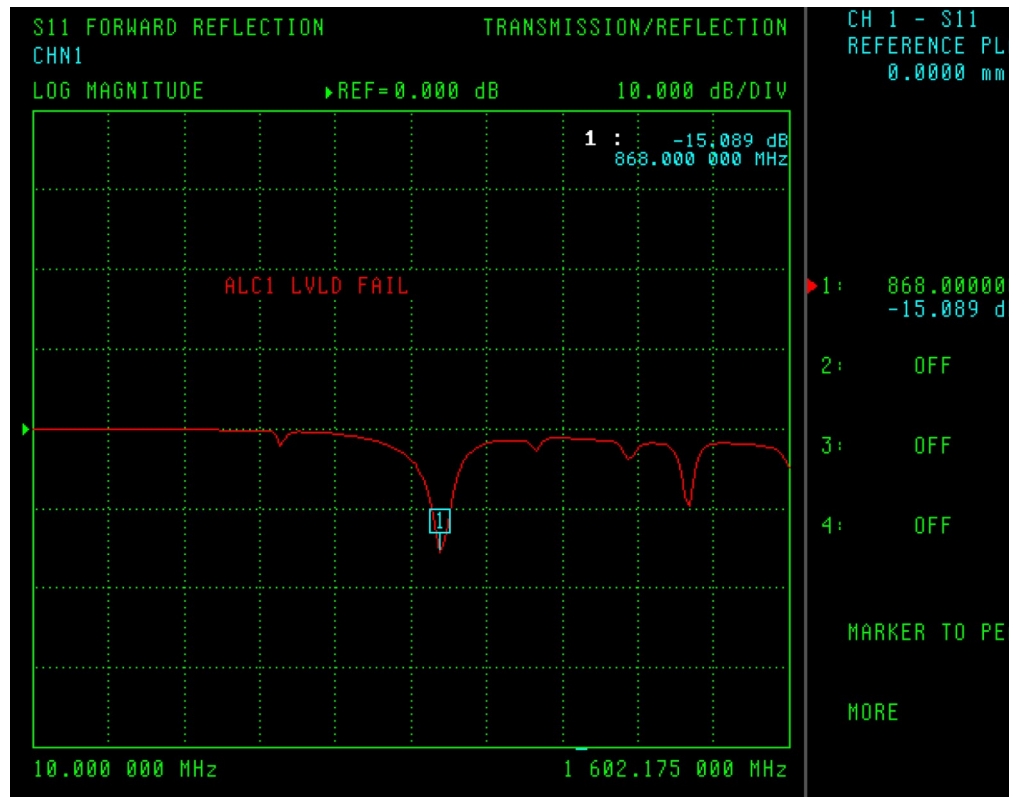
Performance Data — SMITH CHART



Performance Data — VSWR



Performance Data — RETURN LOSS



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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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