

BTHS02 mono Antenna Test Report

Integrated System Solution Corp.

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1. Purpose

Measurement and match BTHS02 mono antenna.

2. Initial Condition

1.Pcb area : 14 mm*31 mm 2.GND area : 14 mm *24 mm 3.Antenna area :14 mm*7 mm

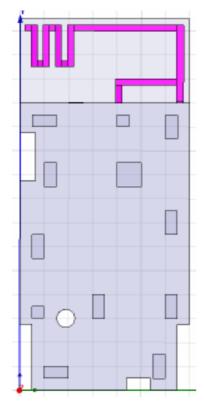
4.4 Layer

5. Antenna type: PIFA

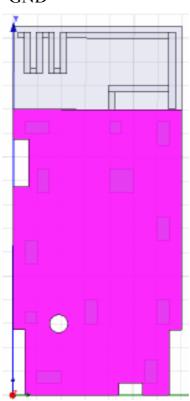
6.Simulation:

PCB

Antenna



GND



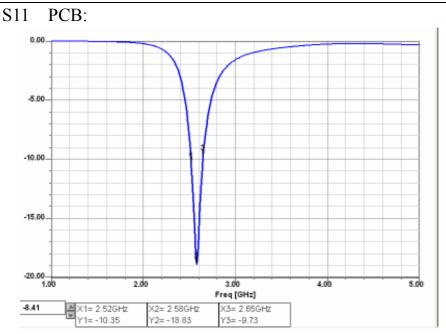
 $I \cdot S \cdot S \cdot C \cdot =$



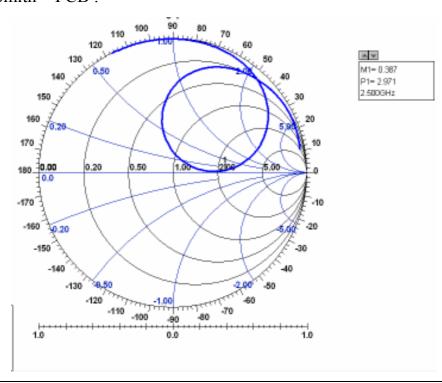
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Smith PCB:





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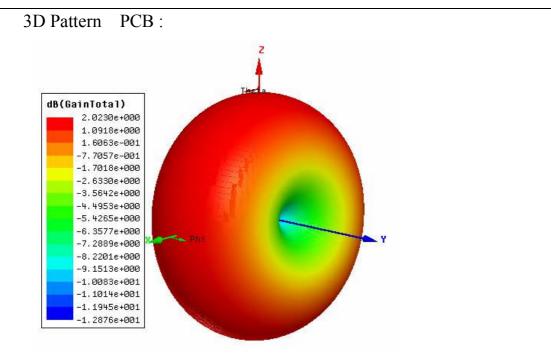
Project Code/ Page 3 of 7 Target Name/ Part Number/ PCB+battery S11 0.00 -10.00 -20.00 -30.00 -40.00 1.00 2.00 3.00 Freq [GHz] 4.00 X2= 2.51GHz Y2= -32.97 ▲ X1= 2.45GHz X3= 2.57GHz Y3= -10.32 Smith PCB+battery M1= 0.053 P1= -58.671 2.500 GHz 4.00 2.00 5.00 180_70.00 -160



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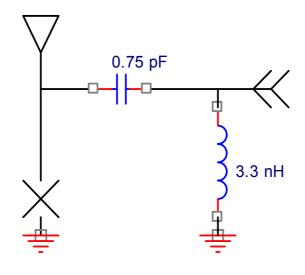
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3. Test Procedure

- 1. Match antenna to 50 Ω use L and C in T type.
- 2. Finally match vaule:



 $I \cdot S \cdot S \cdot C \cdot =$



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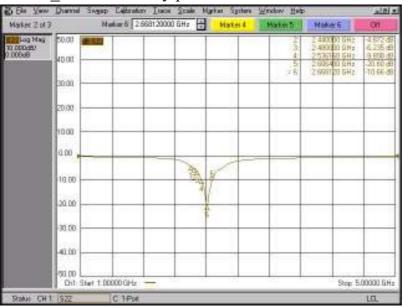
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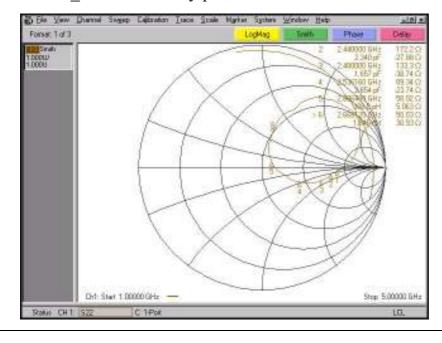
4. Test Result

Measurement:

0 ohm _s11 only pcb



0 ohm _smith only pcb

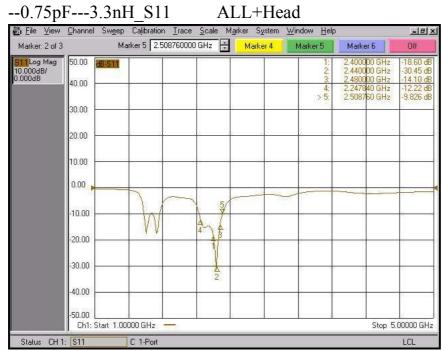




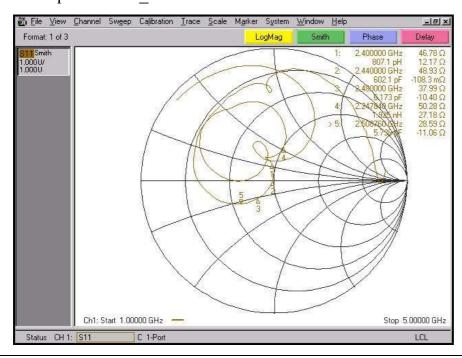
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--0.75pF---3.3nH Smith ALL+Head





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5. Conclusion

After match, measurement antenna

BW:280 MHz

Freq:2.22~2.50GHz

Antenna peak gain:2.023dB

 $I \cdot S \cdot S \cdot C \cdot =$