



Product Specification

Product Name: chip patch antenna

Model: BAT-ANT2-1503

Frequency: 902-928MHz

Polarization: Liner polarization

Radiation Direction: Omnidirectional

VSWR: ≤ 2.0

S11: $\leq -10\text{dB}$

Gain: 1.5dBi

Efficiency: 10-50%

Power Capacity: 4W

Operating Temperature: $-40\sim 80^{\circ}\text{C}$

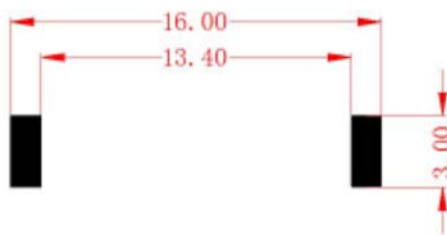
Size: 15 (L) *3 (W) *1.2 (H) mm

Manufacturer: Luoyang B&T IoT Technology Co., Limited.

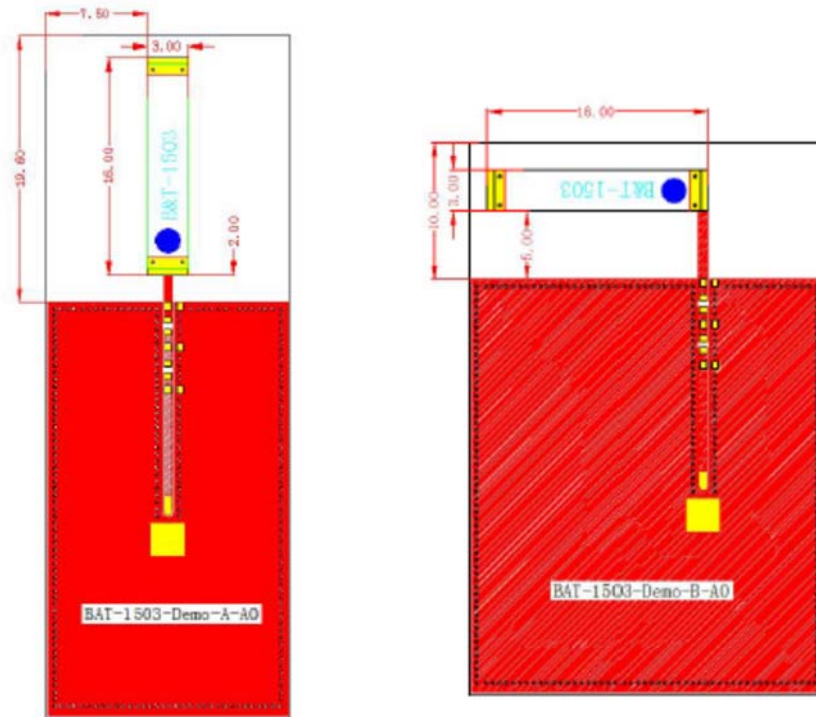
Addr: Room 101, Building B, No. 20, Liandong U Valley, No. 6 Qiming East Road, Chanhe

Hui District, Luoyang City, Henan Province

Size (mm)

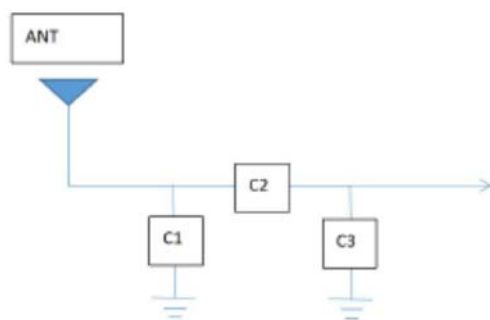


Luoyang B&T IoT Technology Co., Limited.



On the left side of the picture above is the vertical layout of the antenna, and on the right side is the horizontal layout. When space permits, the vertical layout should be prioritized.

Impedance Matching Network

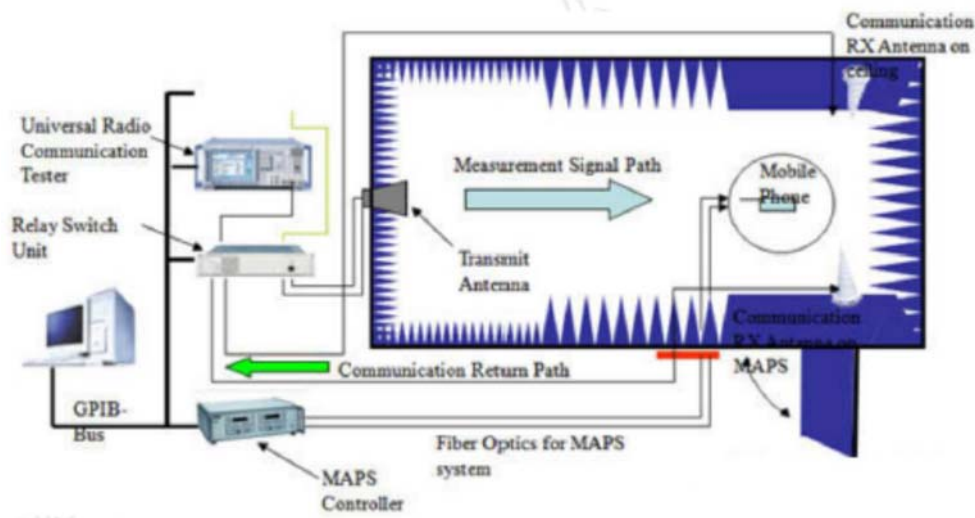


Note:

⊕ Adjust the impedance by using inductors and capacitors.

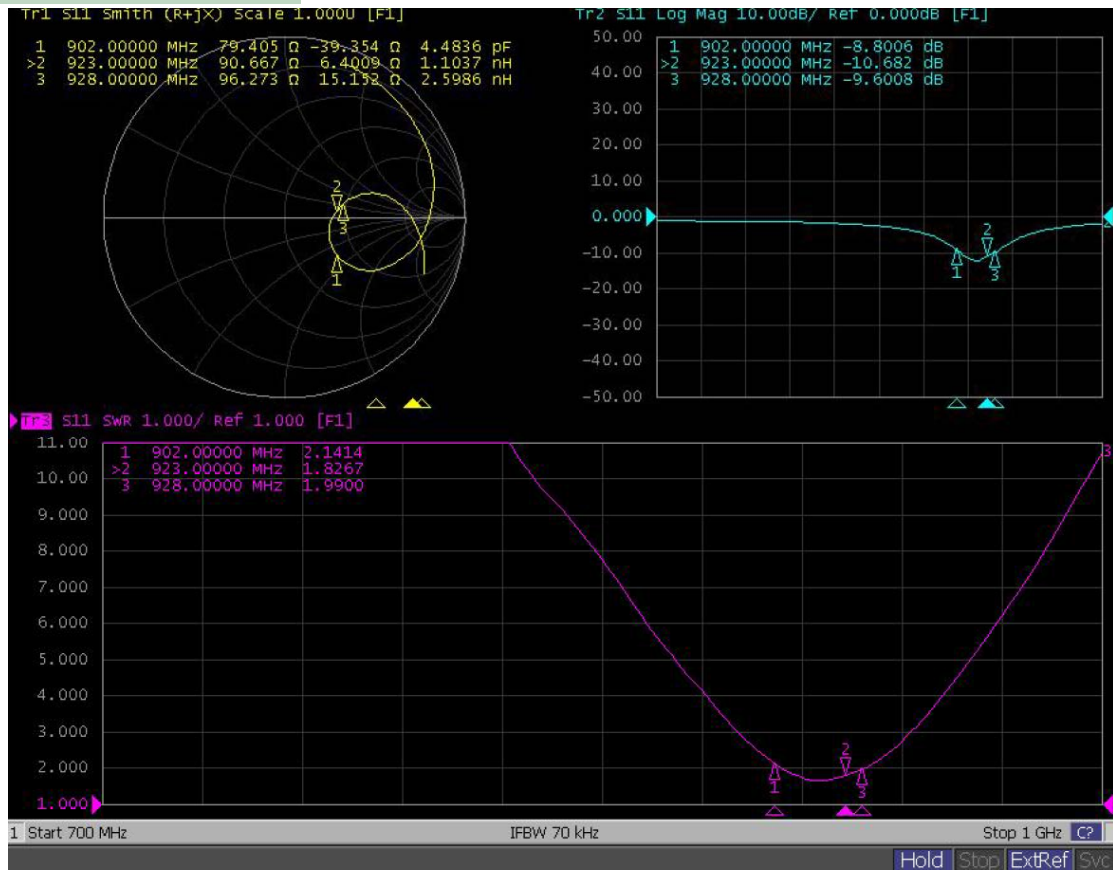
- ⊕ The range of inductor values is 1 to 110 nH, and the range of capacitor values is 0.5 to 10 pF.
- ⊕ Debug and match according to the frequency band used. Different frequency bands require different matching parameters for cooperation.

Furnace Temperature Operating Curve



Antenna Passive Test Data

- S11



➤ VSWR

Freq/MHz	902	923	928
VSWR	2.14	1.82	1.99

➤ Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (%)
902	1.5	44.82
904	1.5	41.25
906	1.5	42.53
908	1.5	43.64
910	1.5	44.45
912	1.5	45.21
914	1.5	45.35

916	1.5	44.85
918	1.5	44.24
920	1.5	43.36
922	1.5	43.95
924	1.5	42.35
926	1.5	42.24
928	1.5	41.85

➤ Pattern 923MHz

