

Antenna Specification

Antenna Model: BM13

Version: V2.2

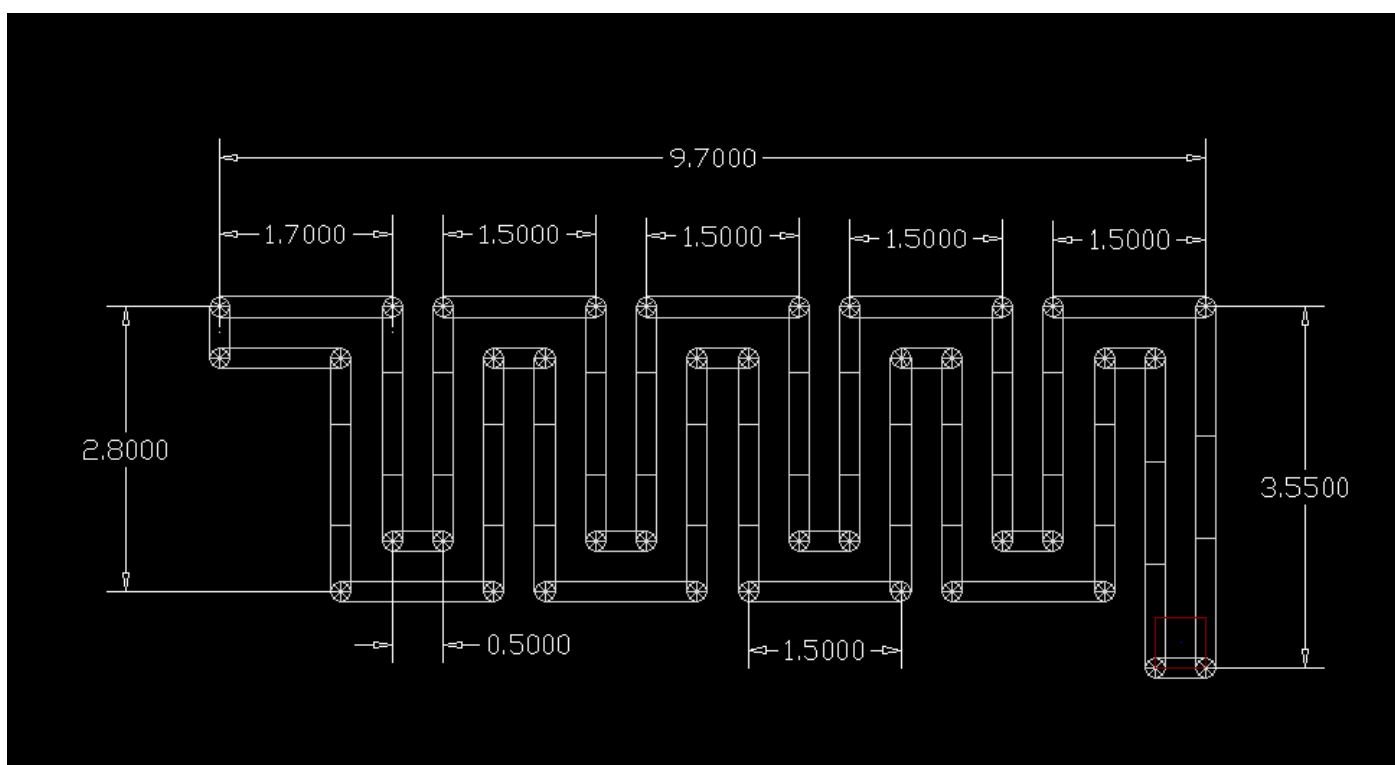
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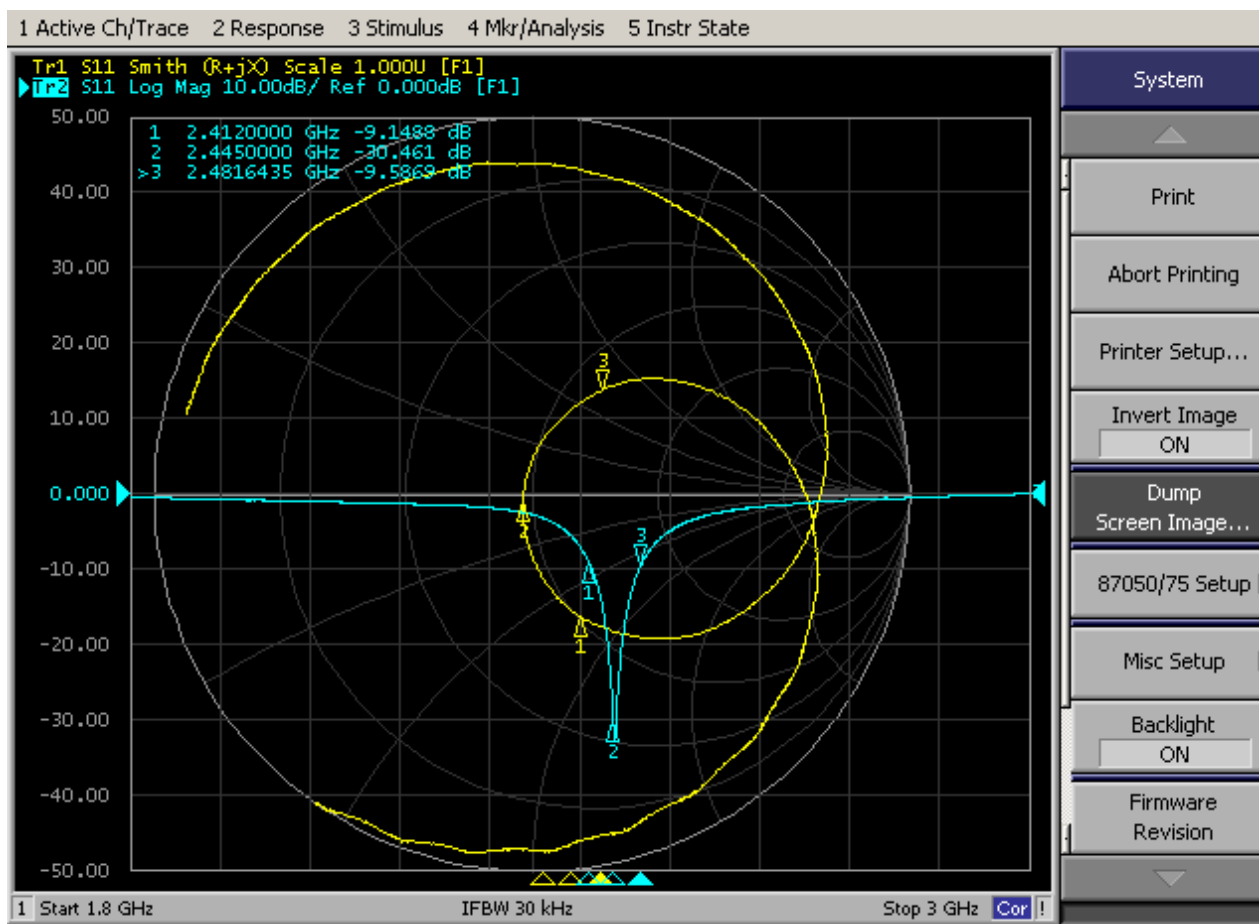
1 Antenna size (Unit: mm)



2 Antenna specification parameters

number	Parameter item	Description
1	Center operating frequency	2441MHz
2	Work bandwidth	2400---2480Mhz
3	Rate of data signalling	1Mbps
4	Antenna type	On-board PCB antenna (default)
5	Antenna gain	-1.08dBi
6	Impedance	50ohm
7	Modem type	GFSK

3 Deoning frequency of antenna network



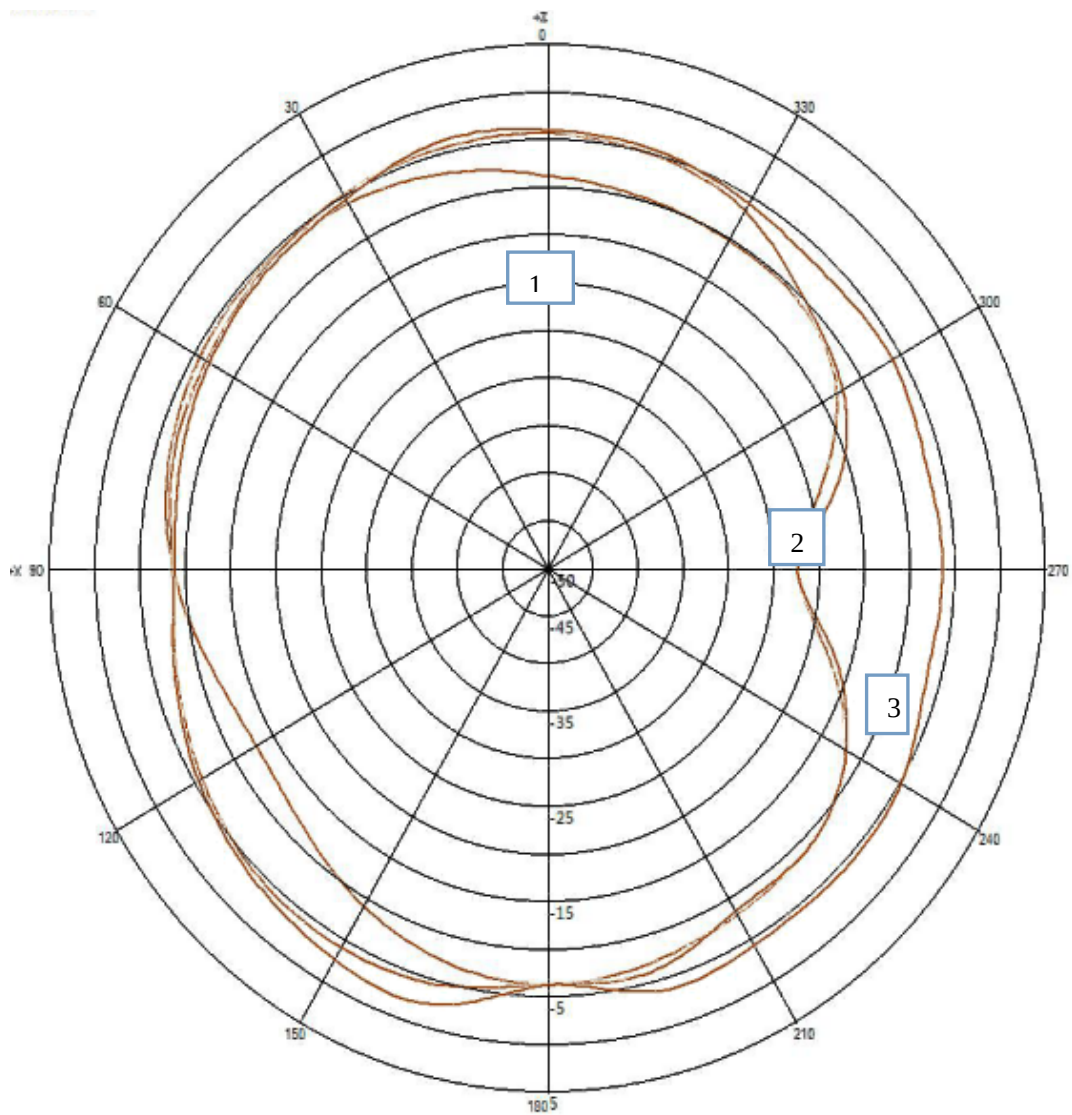
The return loss of the antenna at 2.445ghz is - 30dB and the impedance is about 50. Bandwidth 80m
Experimental environment: Elink laboratory

4 Antenna test efficiency

The return loss of the antenna at 2.445ghz is - 30dB and the impedance is about 50. Bandwidth 80mpassive test for 2.4g			
Freq (MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	-2.125670268	-6.512982178	22.32039018
2410	-1.839793728	-6.350555158	23.17098436
2420	-1.64029678	-6.246810655	23.7311582
2430	-1.328848956	-5.925152964	25.5555189
2440	-1.132319256	-5.799553085	26.30538676
2450	-1.087960046	-5.849299265	26.00579133
2460	-1.316358881	-6.006721723	25.08001707
2470	-1.579335991	-6.245067499	23.74068524
2480	-1.962892418	-6.454212193	22.62448909
2490	-2.50538583	-6.753449407	21.11811056
2500	-3.031894388	-7.252236224	18.8267943

5 2D fig

- (1) XY-Plane
- (2) ZY-Plane
- (3) ZX-Plane



6 3D fig

