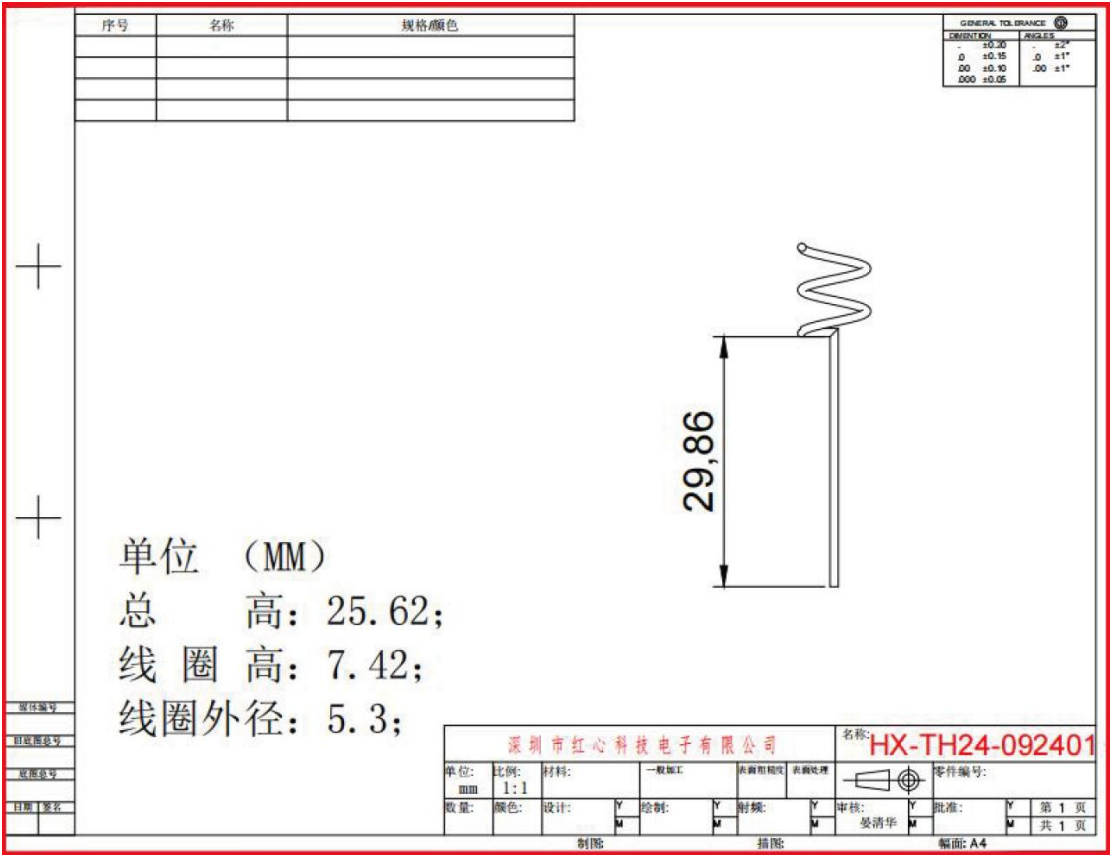


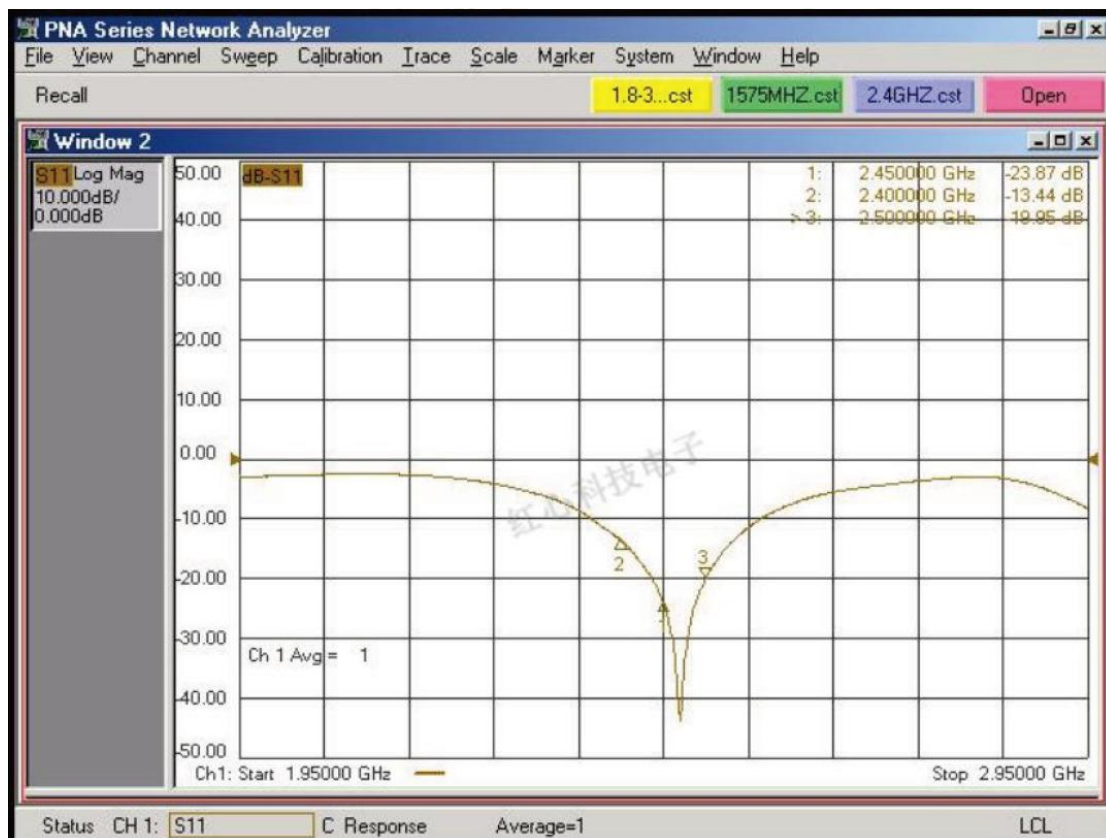
Antenna Specification

ITEM	SPEC.
Model Name	HX-AP24
Frequency Range	2400MHz-2500MHz
Antenna type	Spring antenna
MAX GAIN	2.52dBi



GENERAL TOLERANCE	
DEVIATION	SIZES
±0.20	25"
0 ±0.15	0 ±1"
00 ±0.10	.00 ±1"
000 ±0.05	

1. Return Loss and VSWR



2. Efficiency and Gain

Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0
Efficiency (dBi)	-2.47	-2.41	-2.13	-2.01	-1.86	-1.70	-1.63	-1.50	-1.44
Gain (dBi)	1.59	1.43	1.64	1.63	1.64	1.91	1.99	2.33	2.52
Efficiency (%)	56.58	57.43	61.30	62.99	65.13	67.58	68.63	70.76	71.73
Directivity (dB)	4.06	3.84	3.77	3.63	3.50	3.61	3.62	3.83	3.96
Peak Gain Position (Theta)	90.00	75.00	75.00	75.00	75.00	90.00	90.00	75.00	75.00
Peak Gain Position (Phi)	195.00	345.00	345.00	345.00	345.00	210.00	195.00	0.00	0.00
Efficiency ThetaPol (%)	52.43	53.38	57.07	58.76	60.85	63.28	64.44	66.62	67.73
Efficiency PhiPol (%)	4.15	4.05	4.22	4.23	4.28	4.30	4.19	4.14	4.00
Upper Hem. Efficiency (%)	34.64	35.21	37.53	38.51	39.72	41.13	41.70	43.00	43.63
Lower Hem. Efficiency (%)	21.94	22.23	23.77	24.47	25.41	26.45	26.93	27.76	28.10

3. Radiation Characteristic

