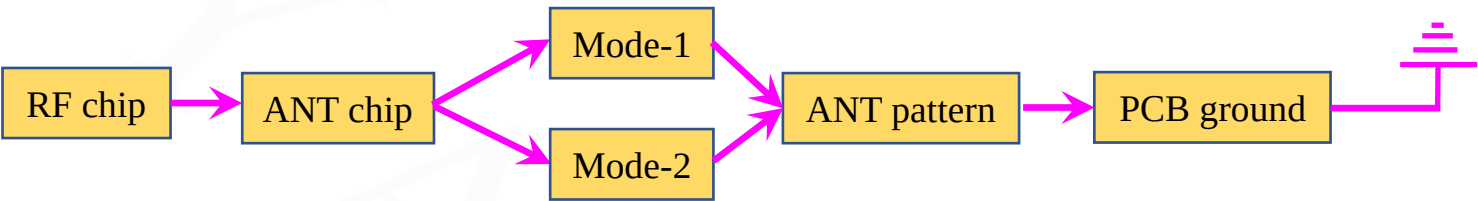




P/N: HY160808 SRF09

✓ **Features:**

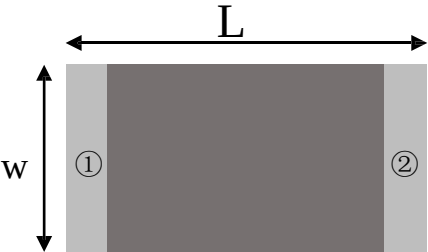
- 1. Surface mounted element with a small dimension of $1.6 \times 0.8 \times 0.8$ mm meet future miniaturization trend.
- 2. Embedded and LTCC (low temperature co-fired ceramic) technology is able to integrate with system design as well as beatifying the housing of final product.
- 3. Miniaturization, wideband, high stability, low ESR, and low tolerance.
- 4. Dual-band resonances in the dominant and harmonic modes enables multiband operations.
- 5. Novel ground-radiation technique enables radiation from both the antenna and the ground plane.



✓ **Applications:**

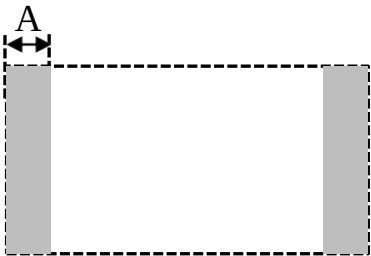
- 1. Bluetooth
- 2. Dual-band WLAN
- 3. ISM and UWB

✓ **Dimensions (Unit: mm)**

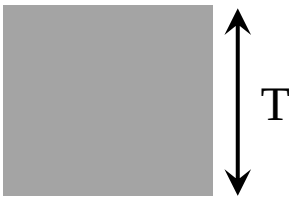


(Top View)

Number	Terminal Name
①	INPUT
②	NC



(Bottom View)



(Side View)

Symbols	L	W	T	A
Dimensions	1.60 ± 0.20	0.80 ± 0.20	0.80 ± 0.20	0.30 ± 0.10

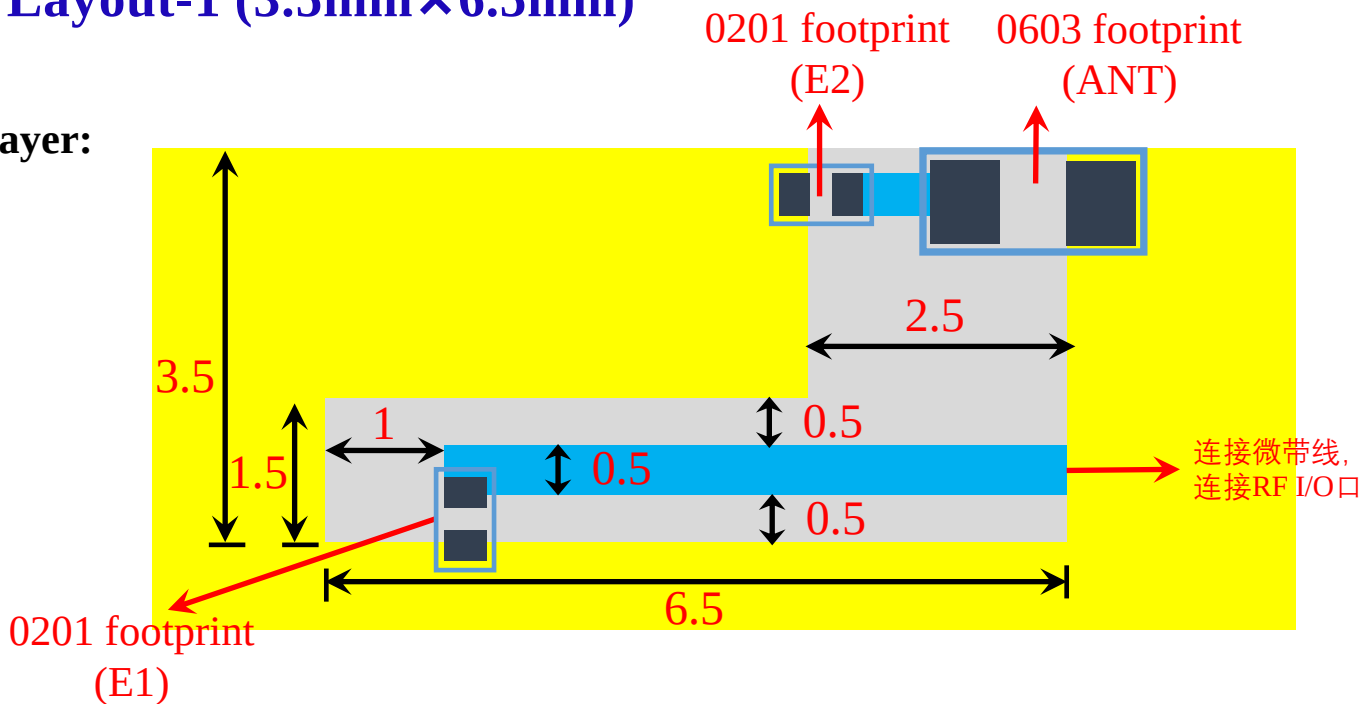
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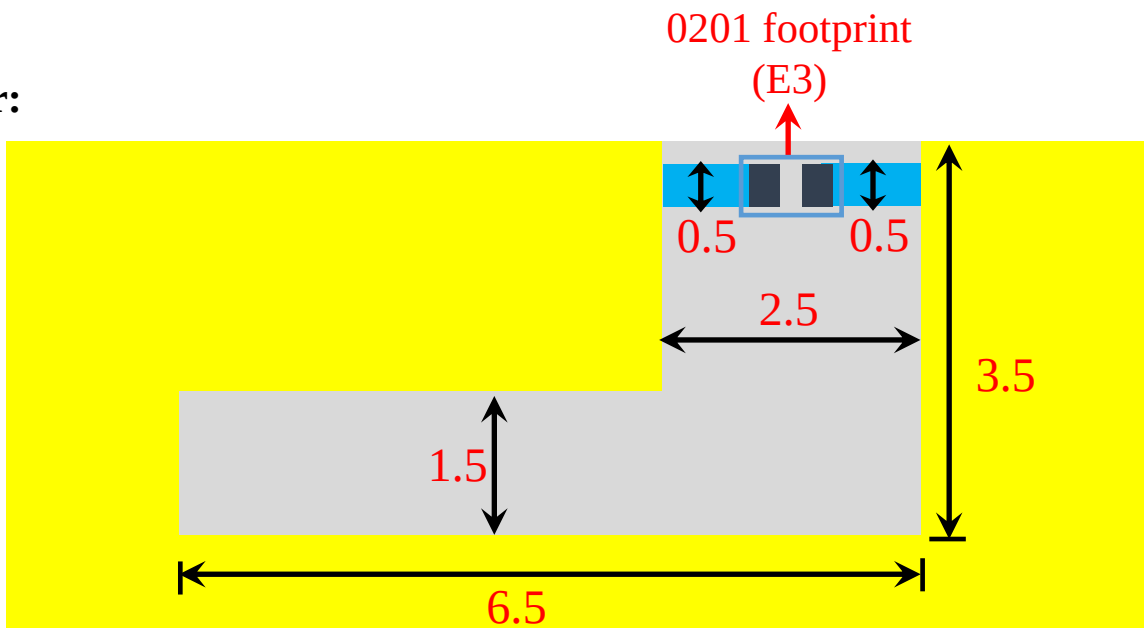
P/N: HY160808 SRF09

✓ Layout-1 (3.5mm×6.5mm)

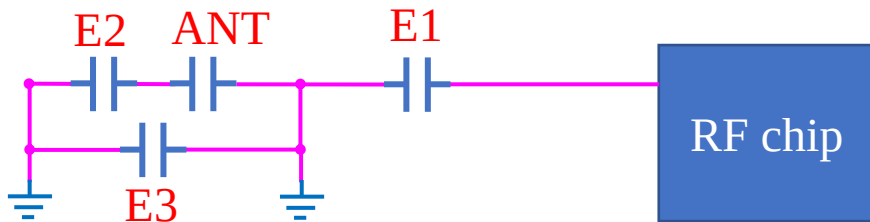
Top layer:



Bottom layer:



Equivalent circuit:

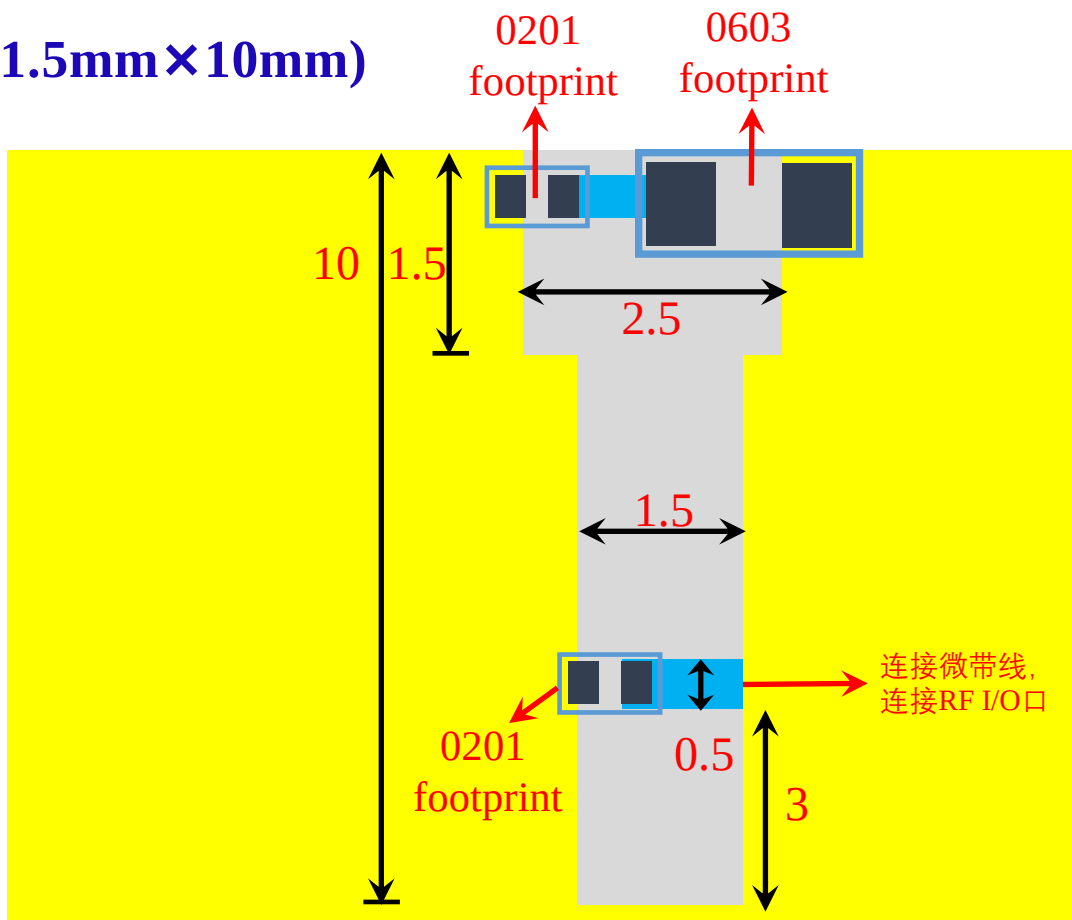




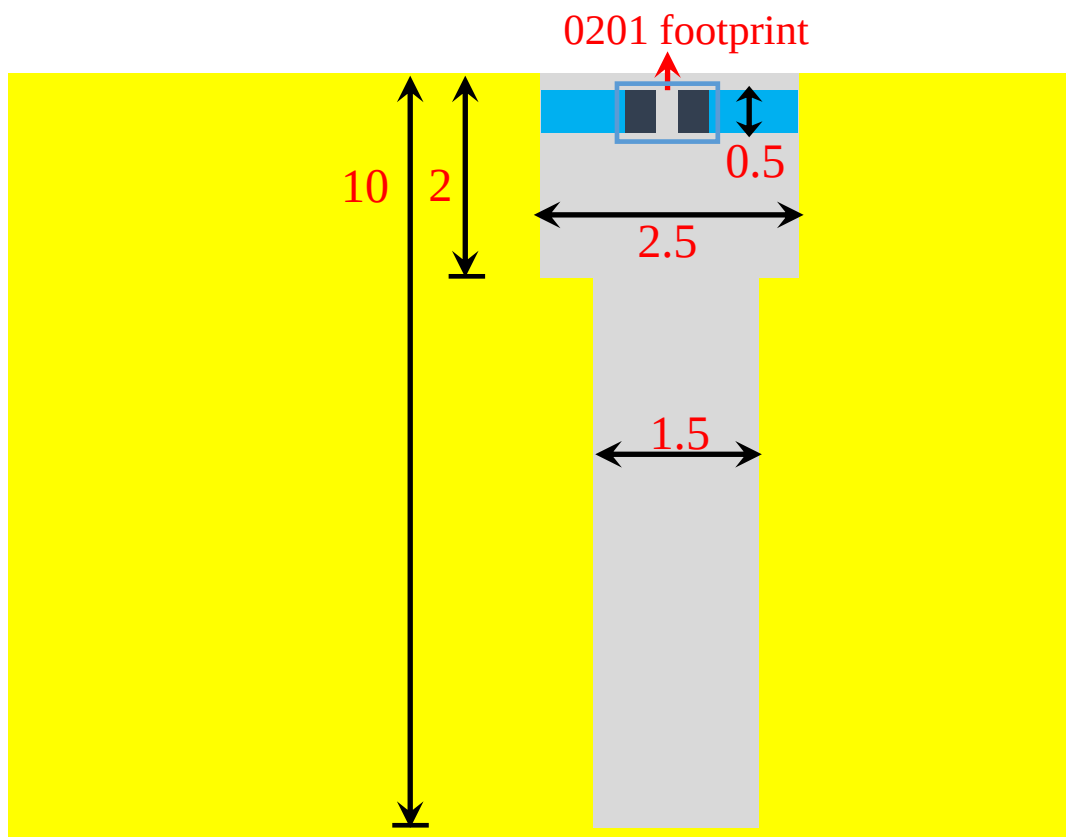
P/N: HY160808 SRF09

✓ Layout-2 (1.5mm×10mm)

Top layer:



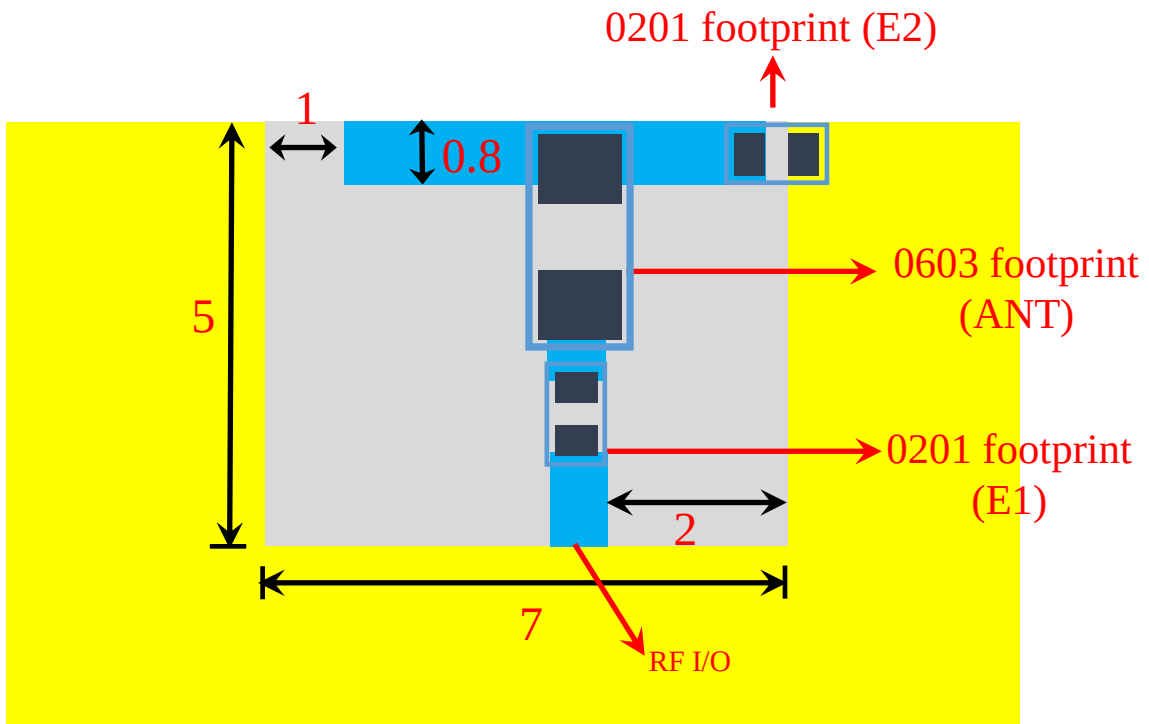
Bottom layer:



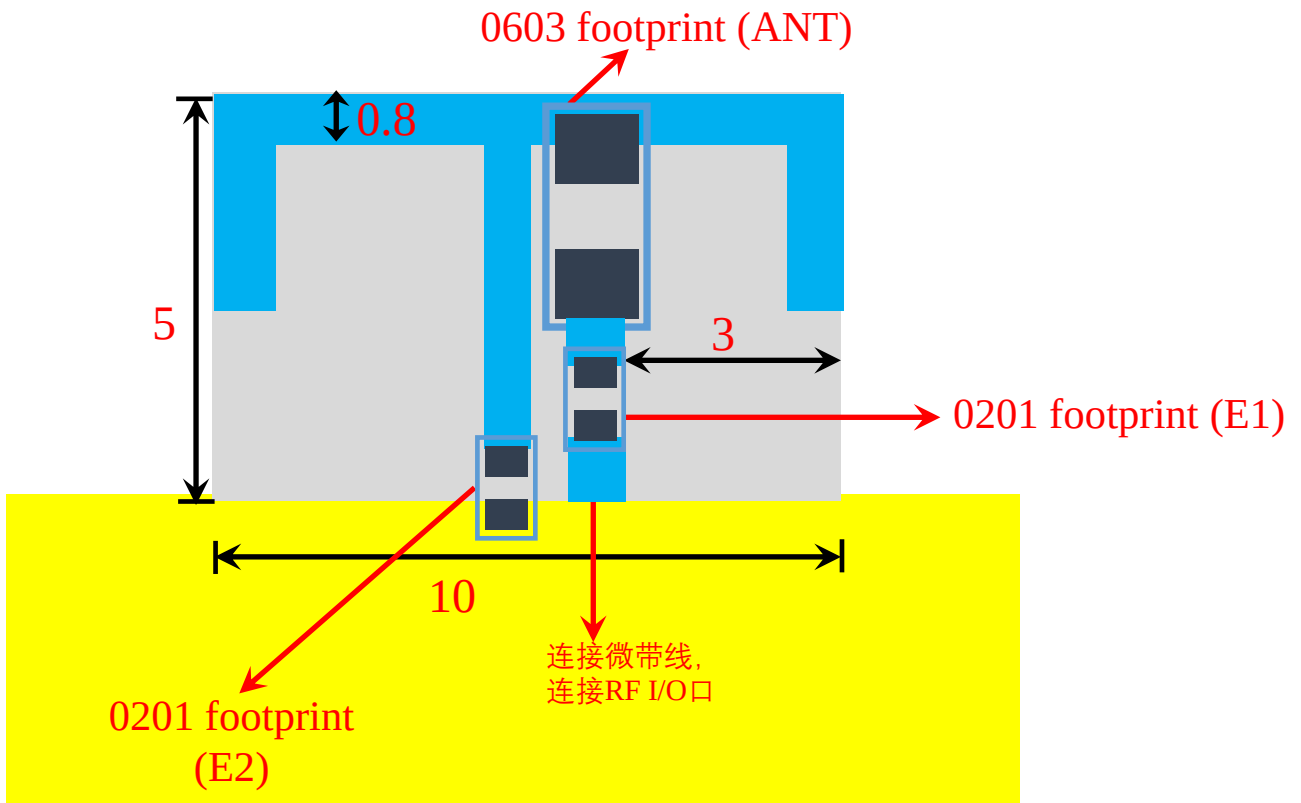


P/N: HY160808 SRF09

✓ Layout-3 (5mm×7mm)



✓ Layout-4 (5mm×10mm)



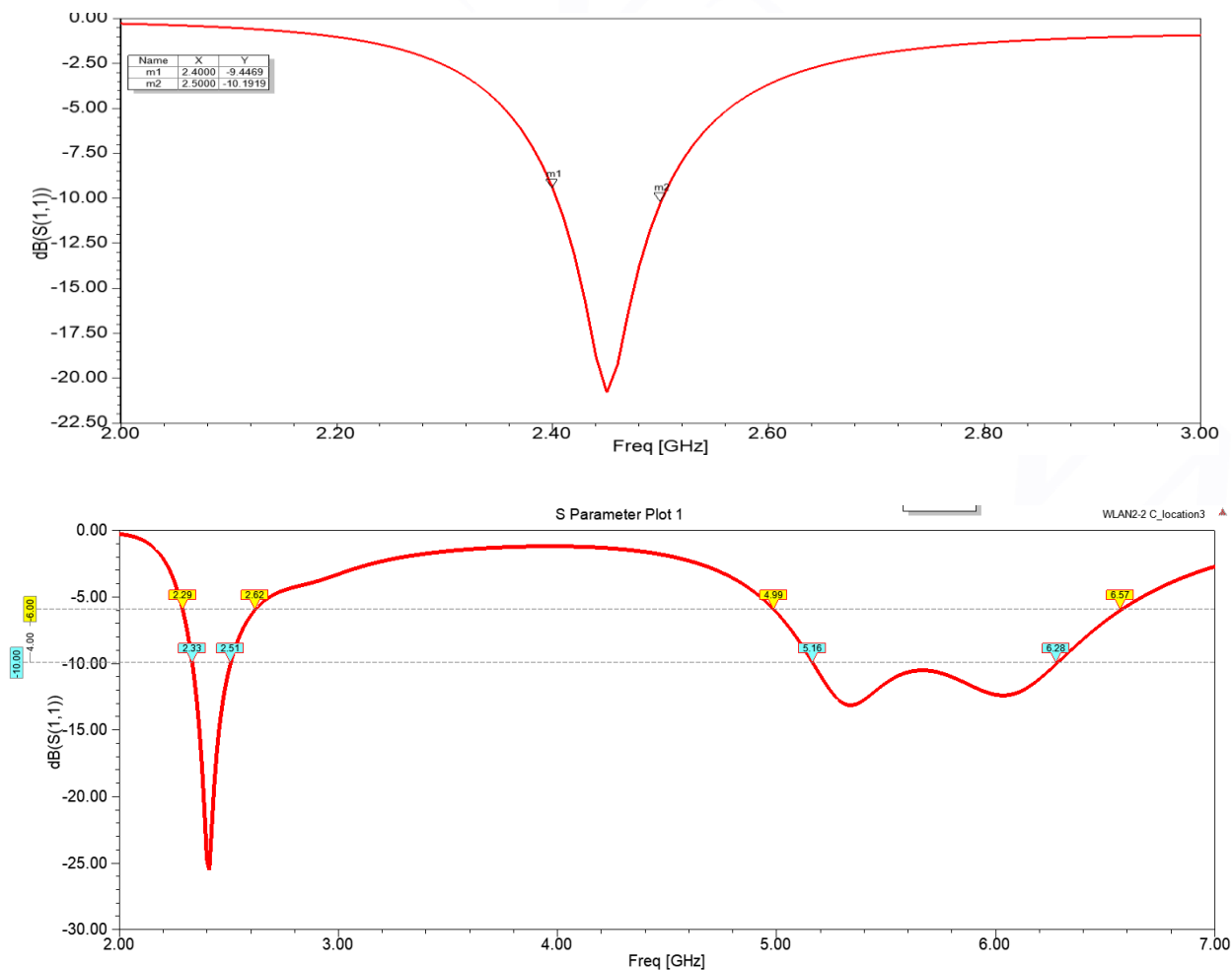


P/N: HY160808 SRF09

✓ Electrical Characteristics:

	Feature	Specification
1	Central frequency	2.45GHz
2	Bandwidth	>150MHz
3	Peak gain	3dBi
4	VSWR	<2
5	Polarization	Linear
6	Azimuth beamwidth	Omnidirectional
7	Impedance	50 Ω

✓ Characteristic Curves:

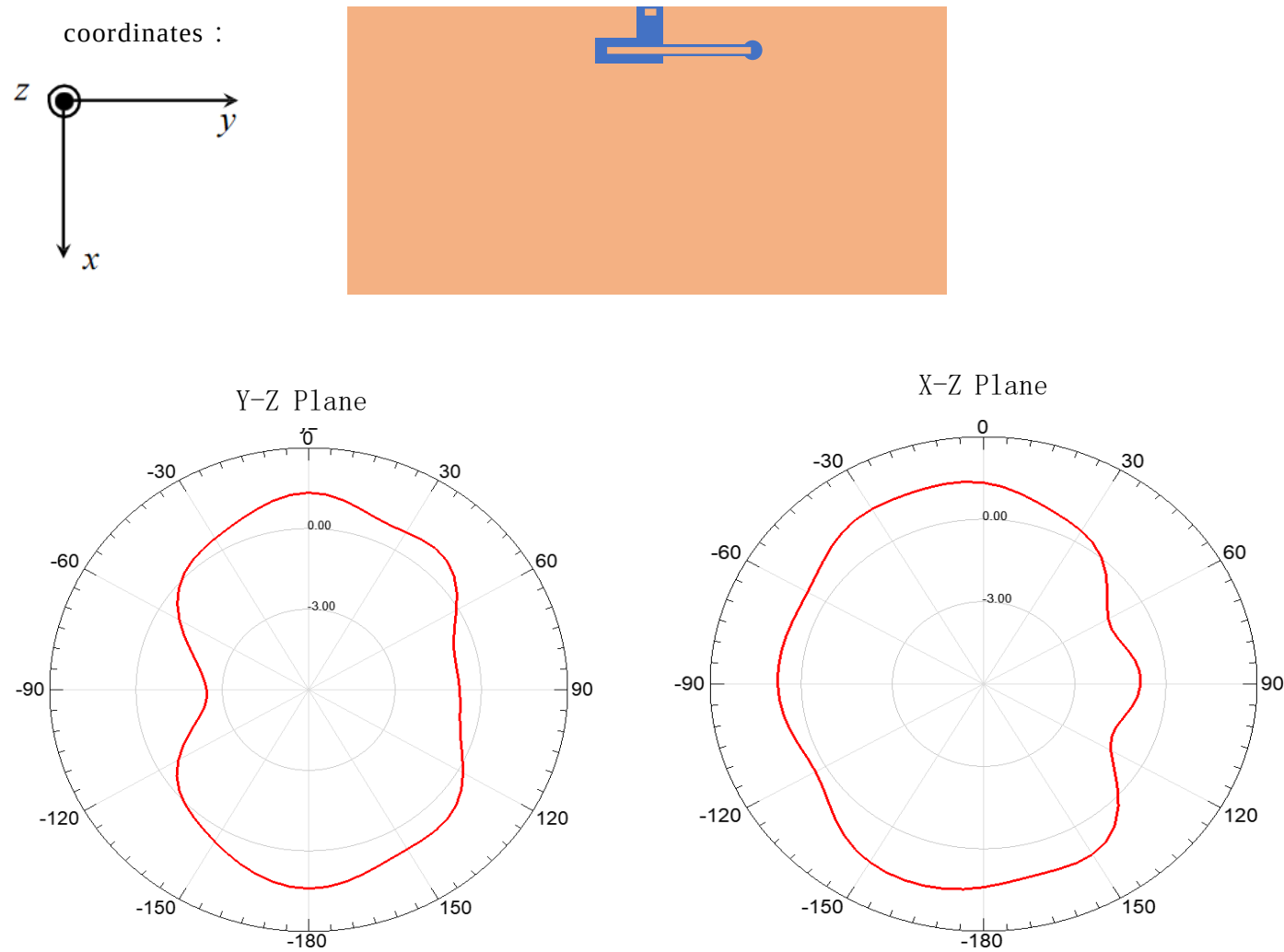


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P/N: HY160808 SRF09

✓ **Radiation Pattern:**



✓ **Radiation Performance:**

Frequency	2450MHz
Avg. gain	-0.85
Peak gain	3.0
Efficiency	82%