



SMD CERAMIC ANTENNA

Data Sheet

TS1608E245K02

For 2400-2500MHz

1.6x0.8x0.4mmmm [EIA1608]

Manufacturer : SUN TECHNOLOGY CO., LTD .

Address : 3F, NO.389, SECTION 2,DIDING AVENUE,NEIHU DISTRICT,TAIPEI CITY,TAIWAN, CHINA

Feature

- Light weight, compact
- Wide bandwidth, low cost
- Built-in antenna with high gain
- Operating Temp. : -40°C~+85°C

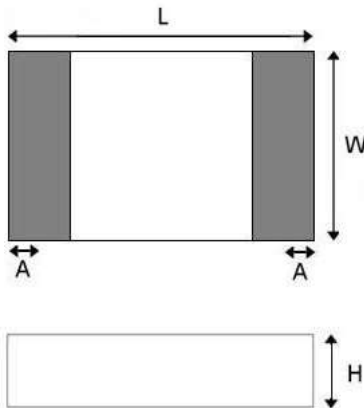
Application

- Bluetooth
- WLAN 2.4
- WiFi 5/6/6E
- UWB



TS1608E245K02

Product Dimension



Units:mm

L	W	H	A
1.60±0.20	0.80±0.20	0.40±0.10	0.2±0.07

Electrical Characteristics per line(TA=25°C)

Parameter	Specification	Units
Frequency Band	2400~2500	MHz
Polarization	Linear	
* Peak Gain	2.78	dBi
* Peak Efficiency	80.25	%
Impedance	50	Ω

Test condition: Test board size 70*60 mm;
Matching circuit: Pi matching circuit will be required.

PART NUMBERING SYSTEM

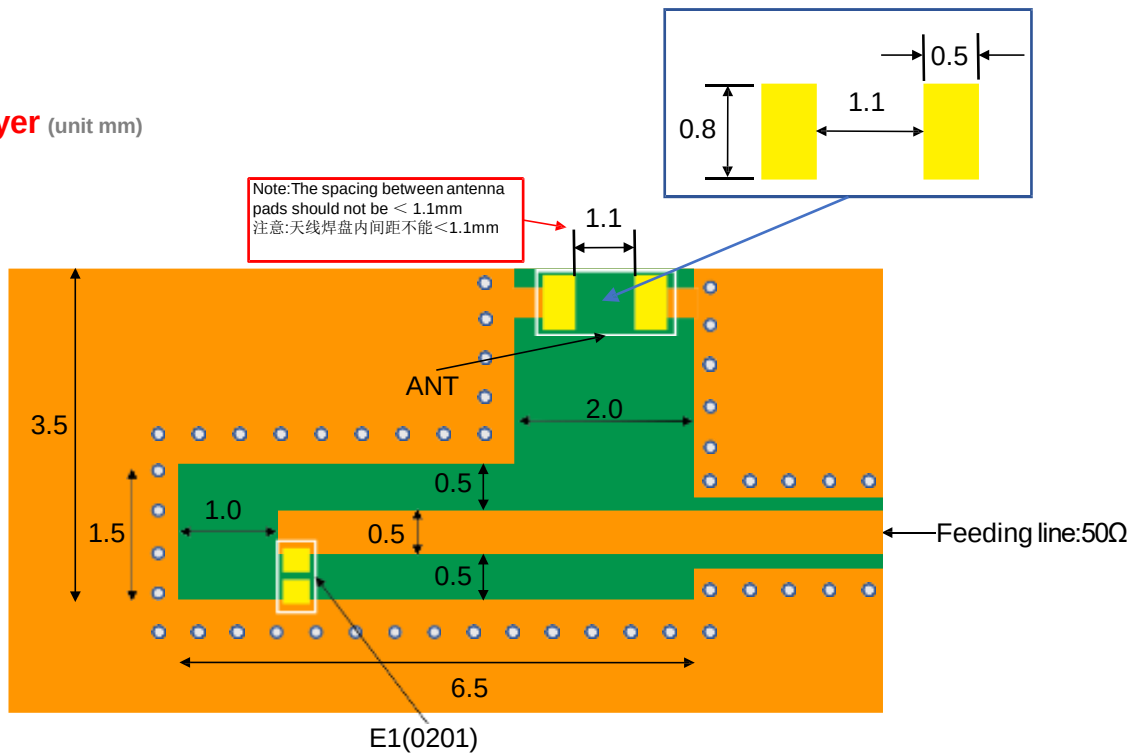
TS - 1608 - E - 2450 - K - 02

Brand	Dimension	Material	Frequency	Feeding mode	Type
TS	1608	E	2450	K	02

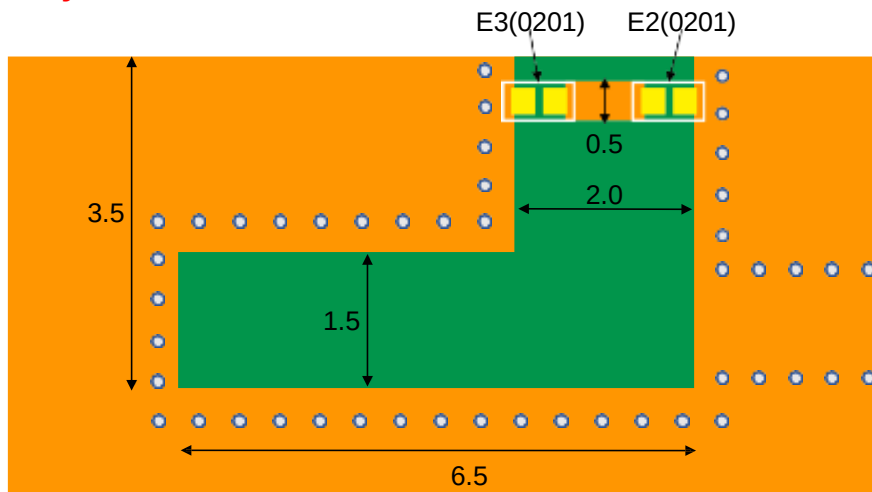
Recommend PCB Layout1

Test condition: Test board size 70*60 mm;

Top Layer (unit mm)



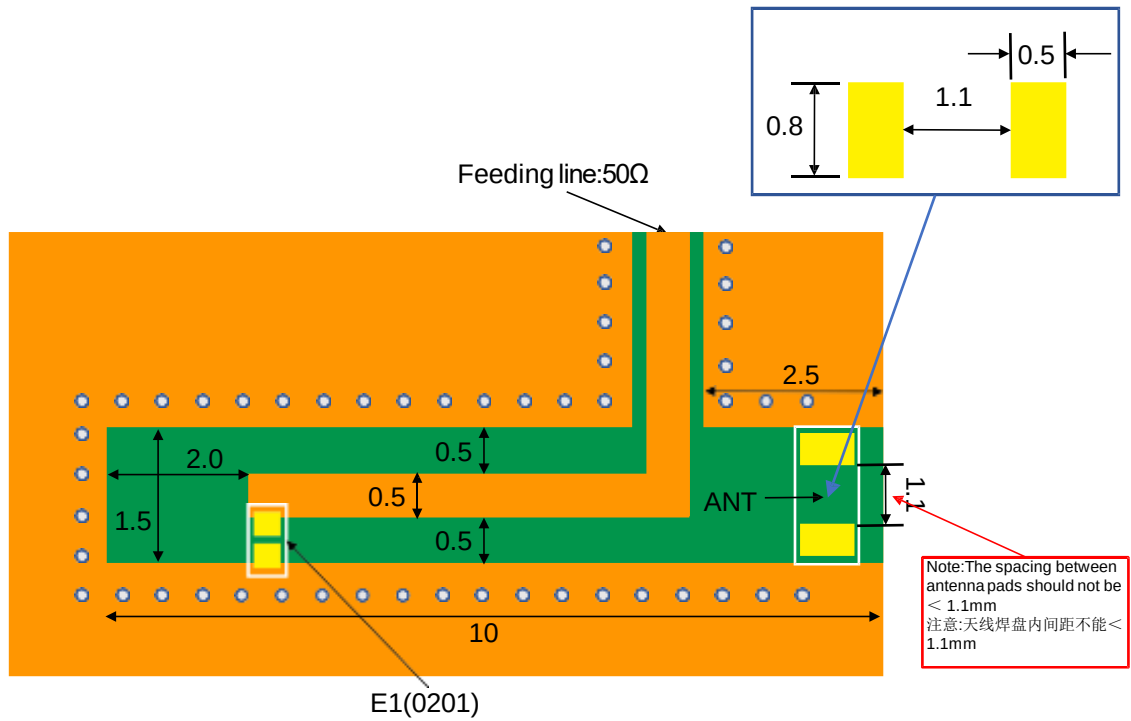
Bottom Layer (unit mm)



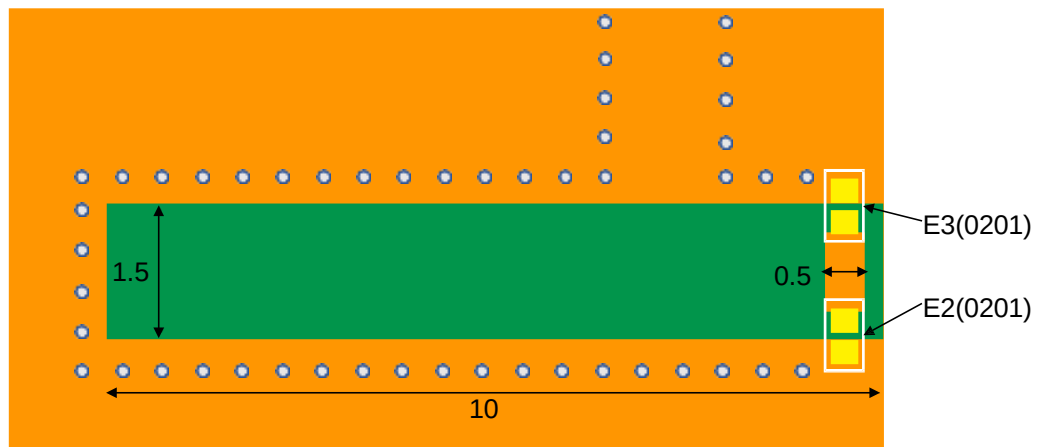
Recommend PCB Layout2

Test condition: Test board size 70*60 mm;

Top Layer (unit mm)

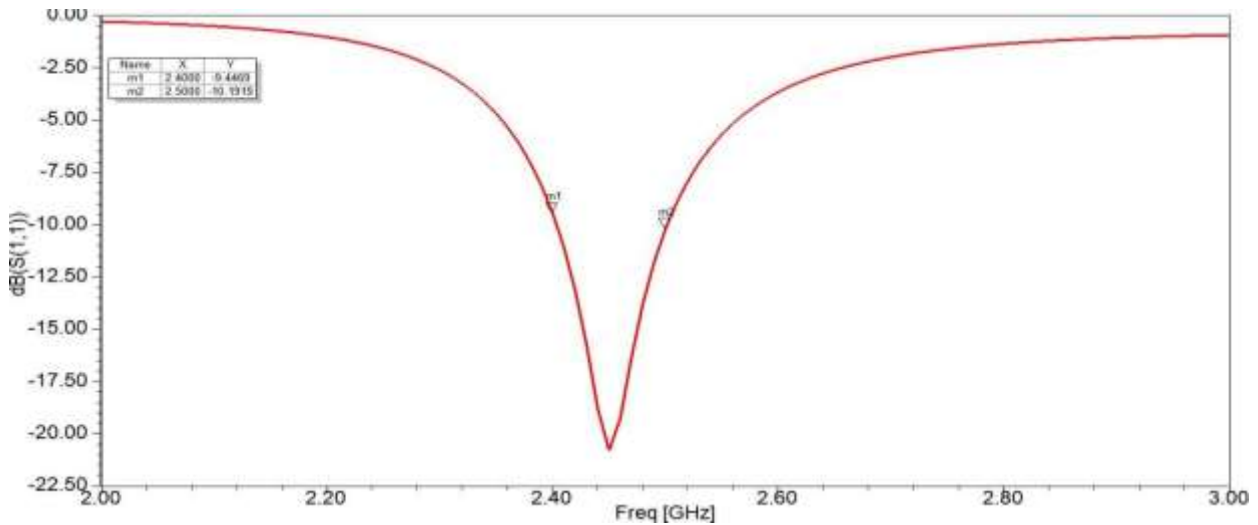


Bottom Layer (unit mm)



Typical Characteristics

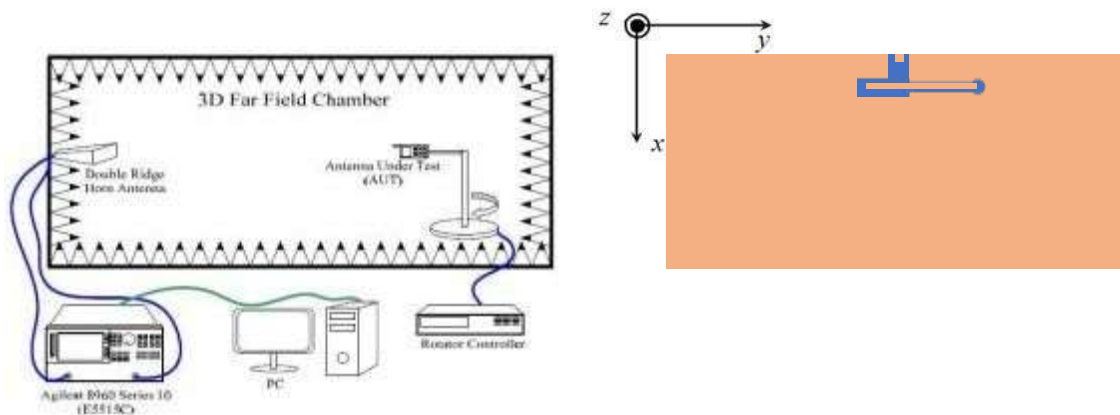
Fig. 1 Return Loss



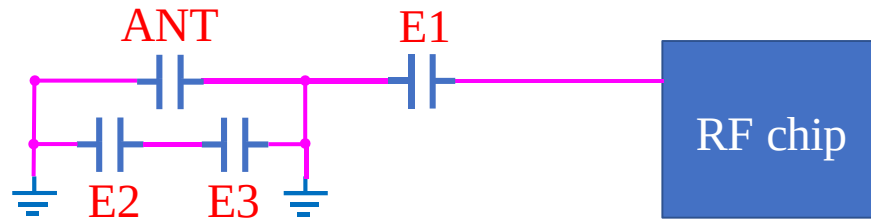
Radiation Pattern

The Gain pattern is measured in FAR -field chamber. DUT is placed on the table of rotator , a standard horn antenna and Vector Network Analyzer is used to collect data.

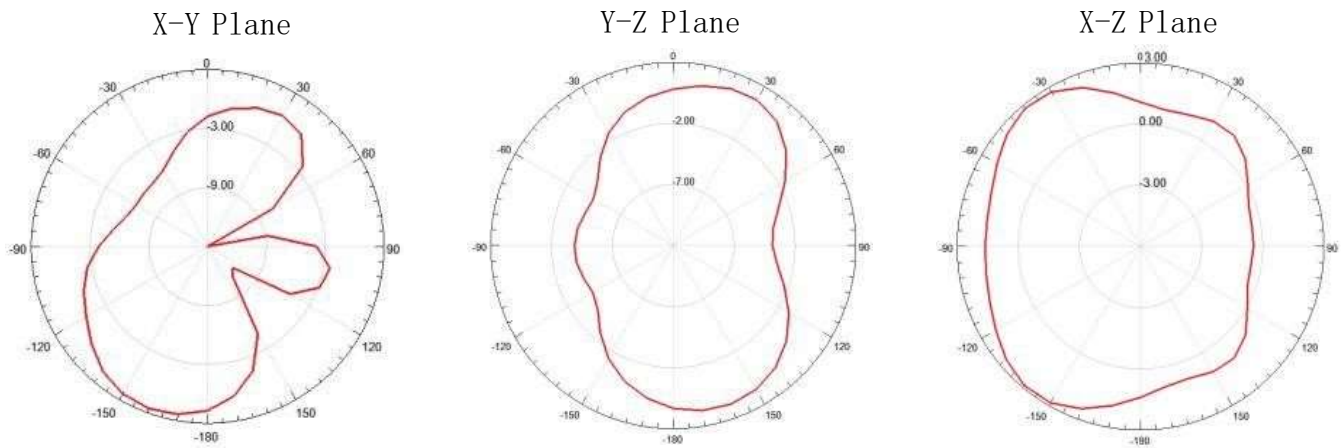
Fig.2 FAR-field Chamber



Equivalent circuit:



2D Gain Pattern



Radiation Performance:

Frequency	2400MHz	2450MHz	2500MHz
Avg. gain	-1.92	-1.35	-1.56
Peak gain	1.79	2.78	2.66
Efficiency	74.55	80.25	76.98