

PULSE 3216 Chip Antenna Measurement For Siemens Temperature Controller Project

Wireless Components
LTCC R&D

September 21, 2022

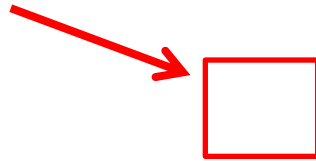


- **Customer : Siemens**
- **Project Name : N/A**
- **Application :Temperature Controller**
- **Antenna size :**
5.3x2.0x1.3 (mm) 2.4GHz chip antenna ([ANT5320LL45R2400A](#))
- **PCB size : 76*68.5 mm**
- **Report date : 2022/09/21**
- **Version : 1**

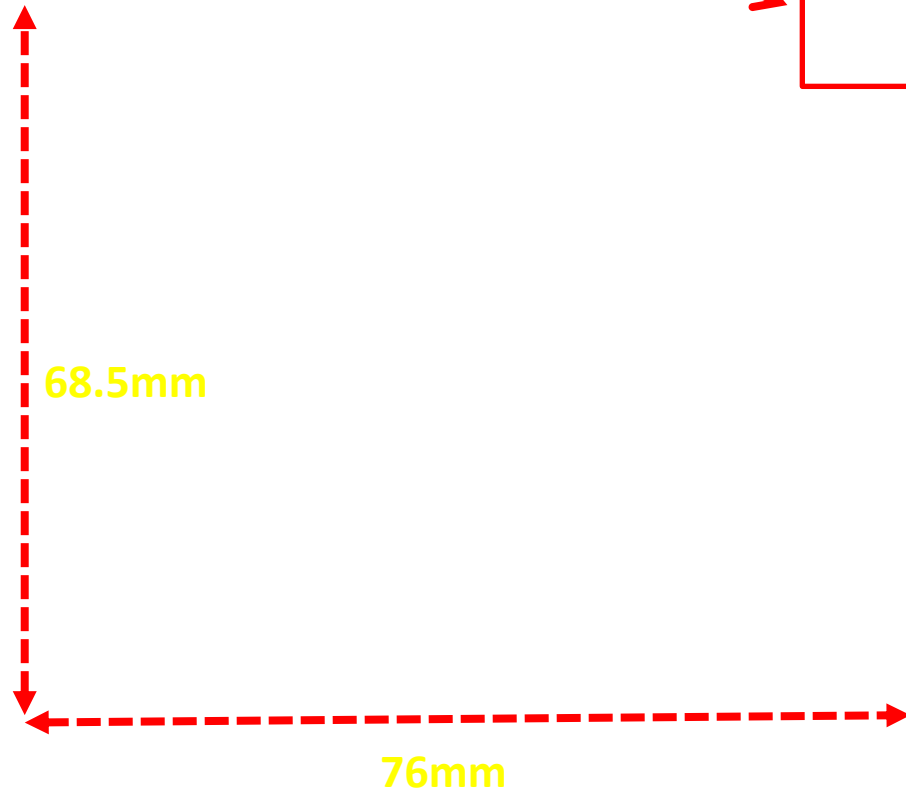
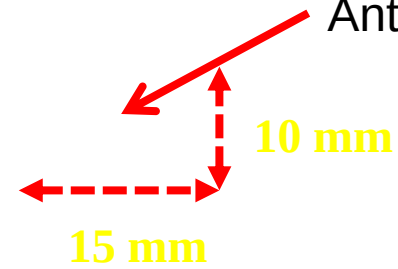
Pulse Chip Antenna_5320 2.4 GHz Chip Antenna

Customer PCB

Pulse ANT5320LL45R2400A

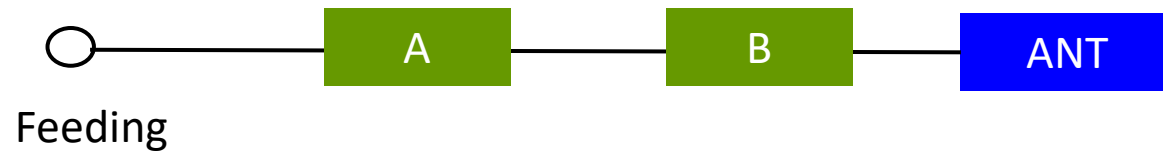
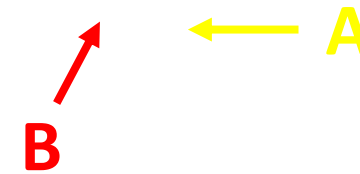


Antenna 净空區

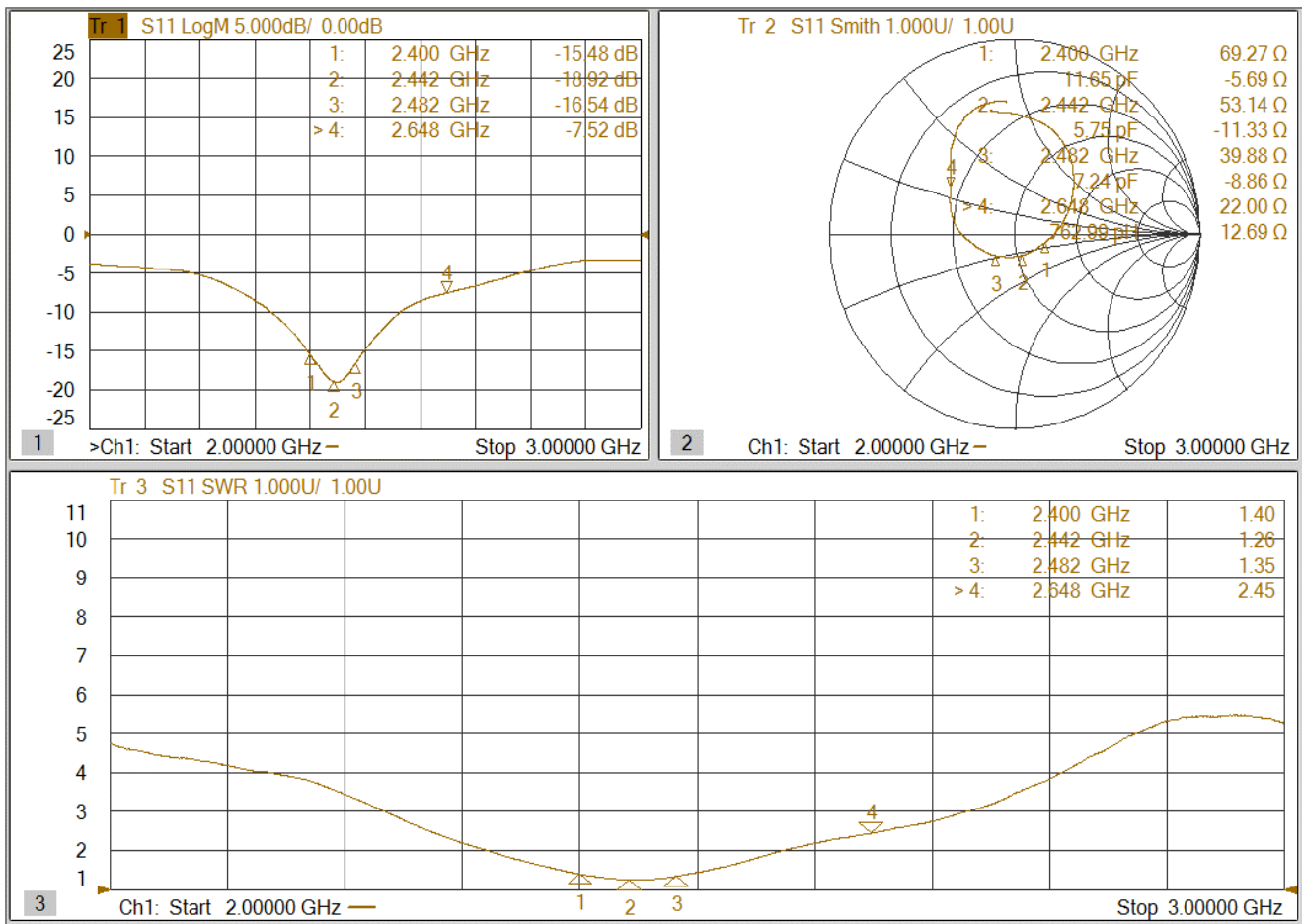


Matching Circuit

Component		Supplier	Value	PN
A	Ind._0402	Chilisin	1.5nH	CLH1005T1N5S
B	Res._0402	Chilisin	0ohm	



Measurement Data



天线样③ 数据

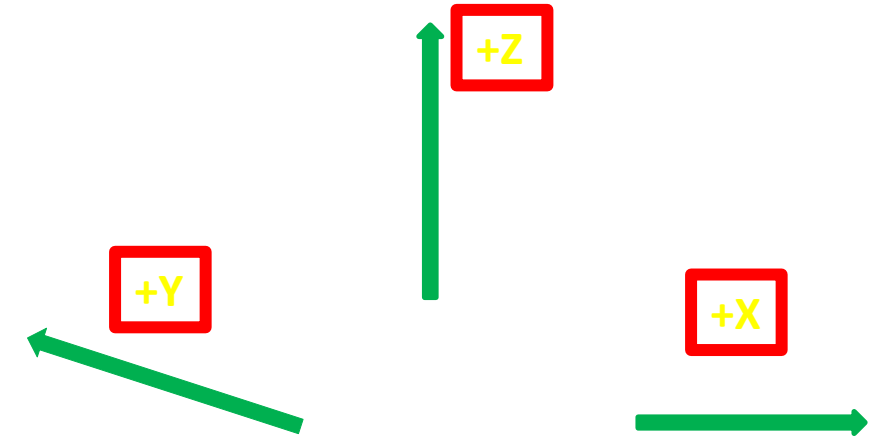
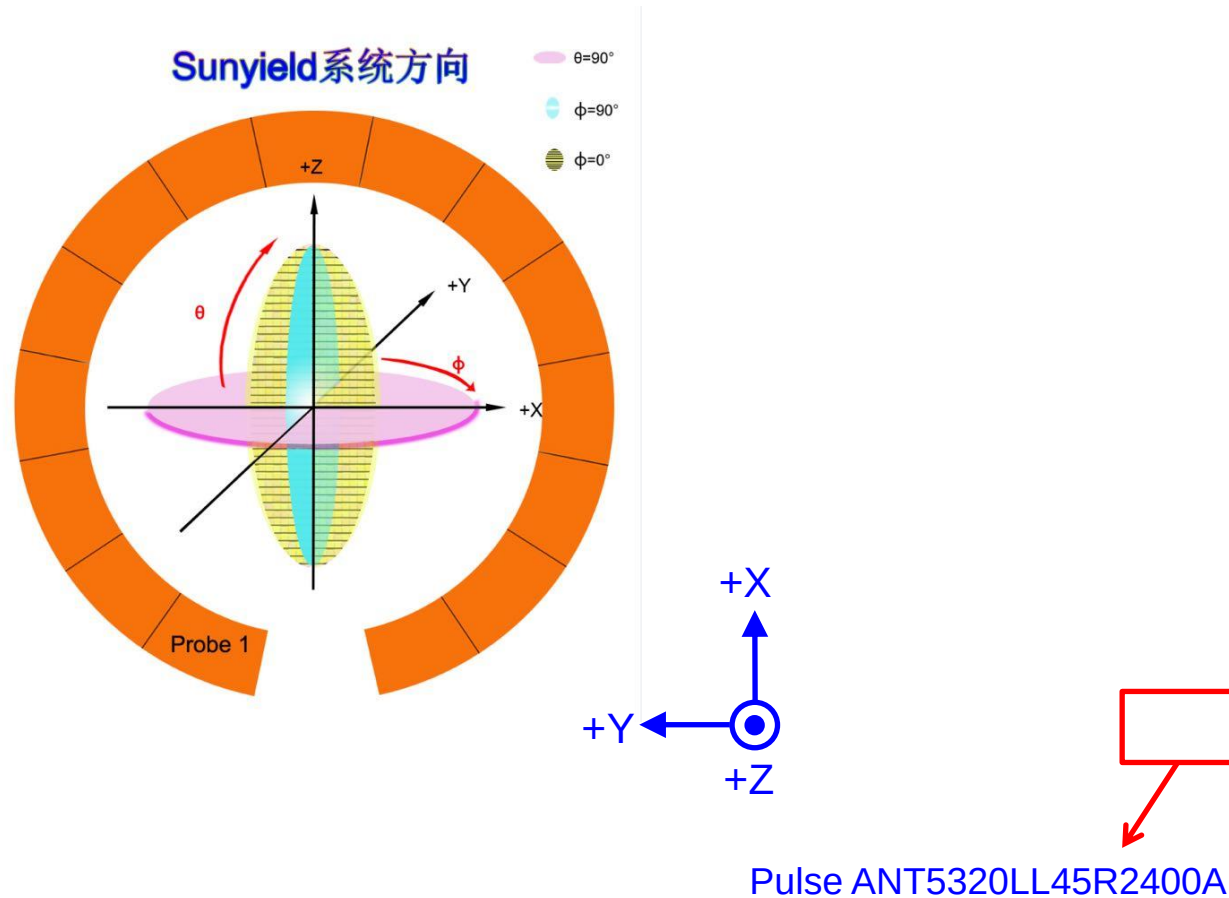
Antenna	ANT5320LL45R2400A		
Frequency (MHz)	2400	2442	2484
R.L. (dB)	-15.48	-18.82	-16.54
Avg. Gain (dB)	-2.52	-2.67	-2.56
Max. Gain (dBi)	3.59	3.42	3.50
Efficiency (%)	55.96	53.99	55.44

Return Loss Test Environment

Measurement Configuration

[Direction Definition]

[Testing Environment]

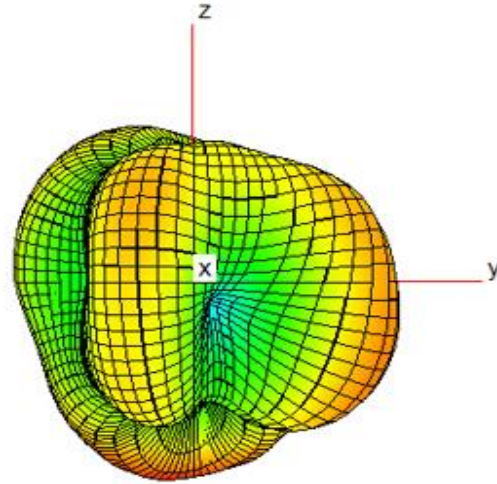


Radiation Pattern (3D)

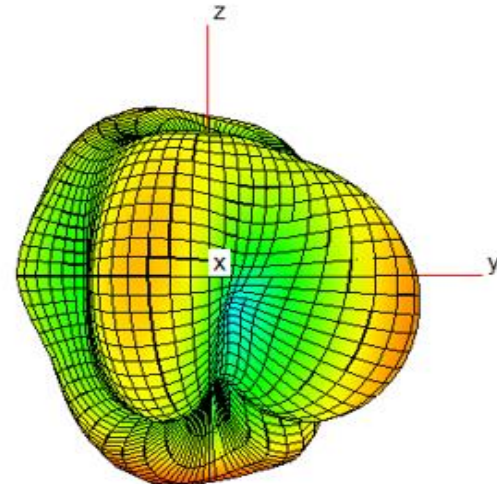
天线样③



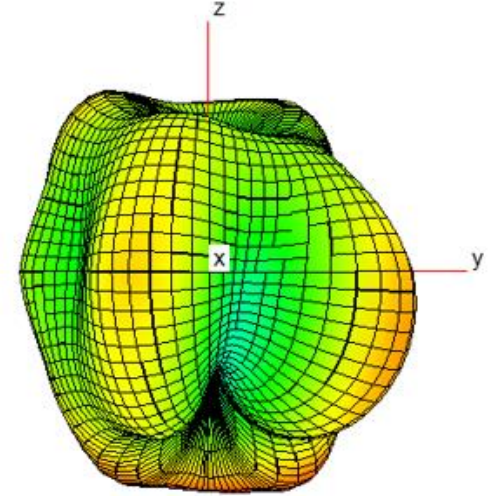
2400 MHz



2442 MHz



2484MHz



本产品的实测效率范围53.99-55.96%

Thank You

