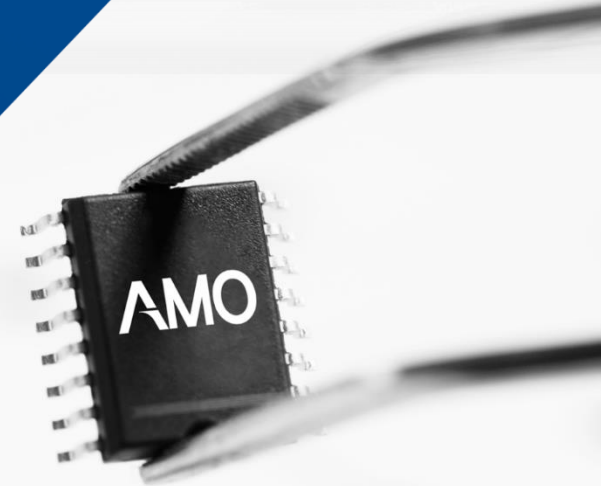


# Antenna Specification Report

- Antenna P/N : ALA321C3
- Application : 2.4GHz BT / WiFi
- Customer : Telit
- Model name : WE310F5-I

23. Oct. 2020

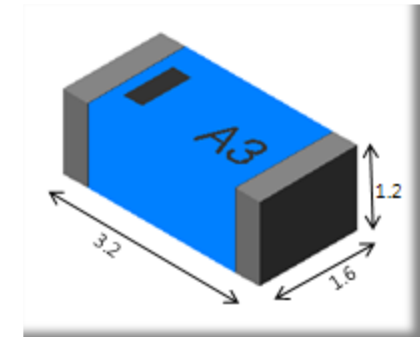


# 1. Antenna Specification

## 1-1. Electrical specification

No	Item	Spec.	Remark
1	Frequency Range [MHz]	2400 ~ 2485	
2	Peak Gain [dBi]	1.29	2442MHz
3	Total Avg. Gain [dBi]	-3.89	
4	Efficiency [%]	40.83	
5	Polarization	Linear	
6	Impedance [ $\Omega$ ]	Nominal 50	

✓ The results are measured on the Set



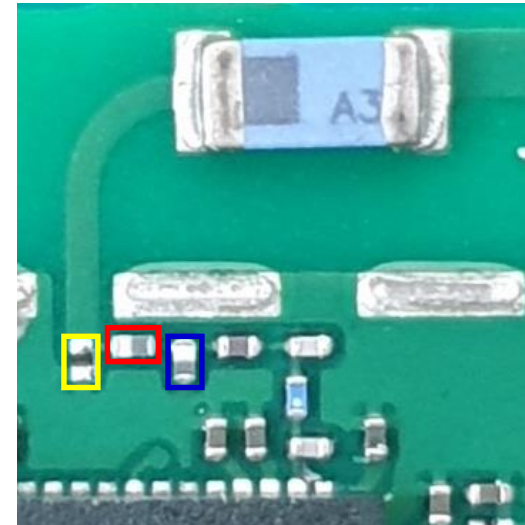
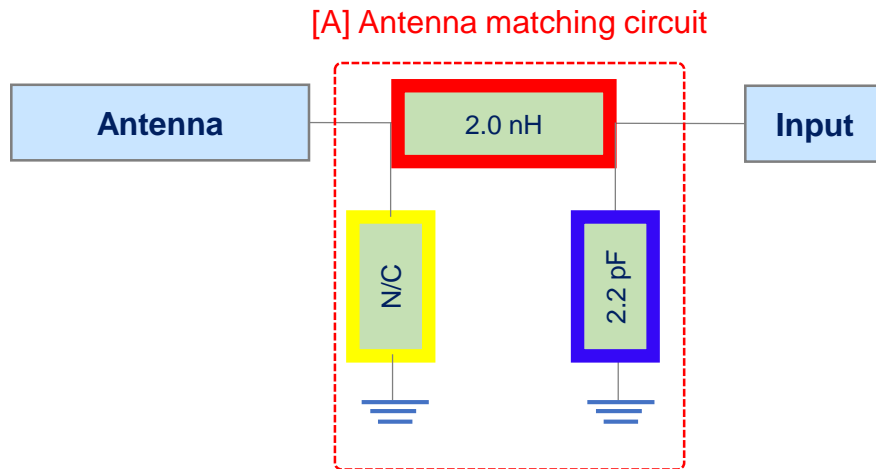
## 1-2. Mechanical specification

No	Item	Spec.	Remark
1	Dimensions (L*W*H)	9.0 x 3.0 x 1.2 mm <sup>3</sup>	
2	Unit Weight	typ. 97 mg	
3	Operating Temperature	-40 ~ +85 °C	
4	Storage Temperature	-40 ~ +85 °C	

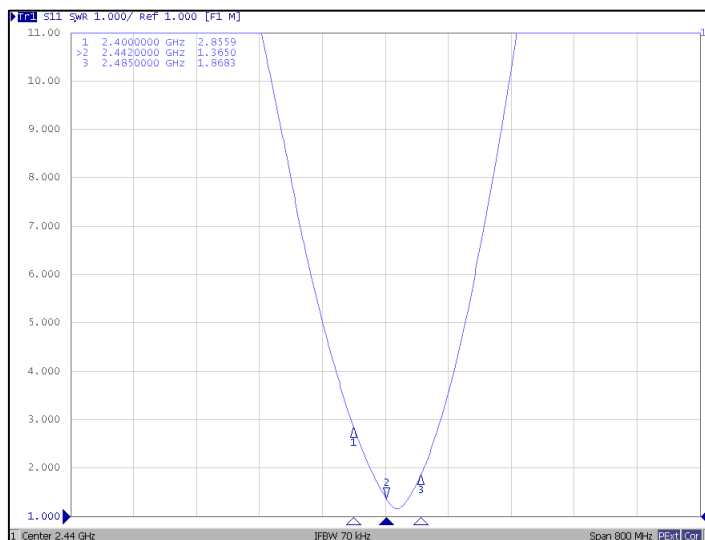
✓ In general, we recommend that the storage environment of parts should be at ambient temperatures of 5 to 40°C and maximum 60%RH humidity.

## 2. Antenna Performance in SET condition

### 2-1. Matching value information



### 2-2. Measured results



Measured VSWR

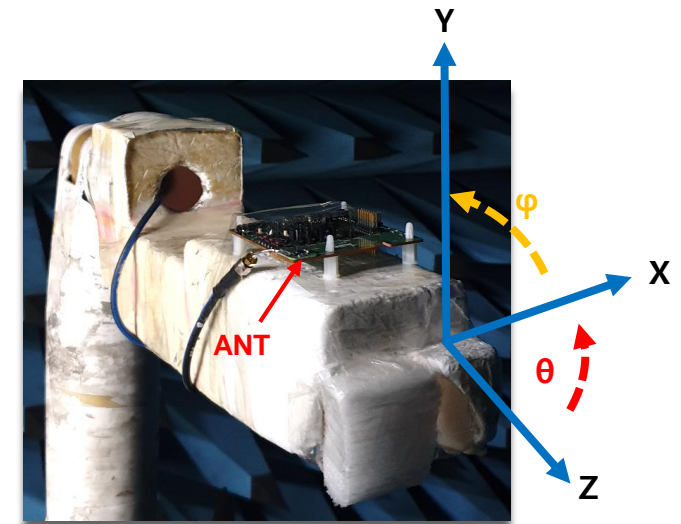
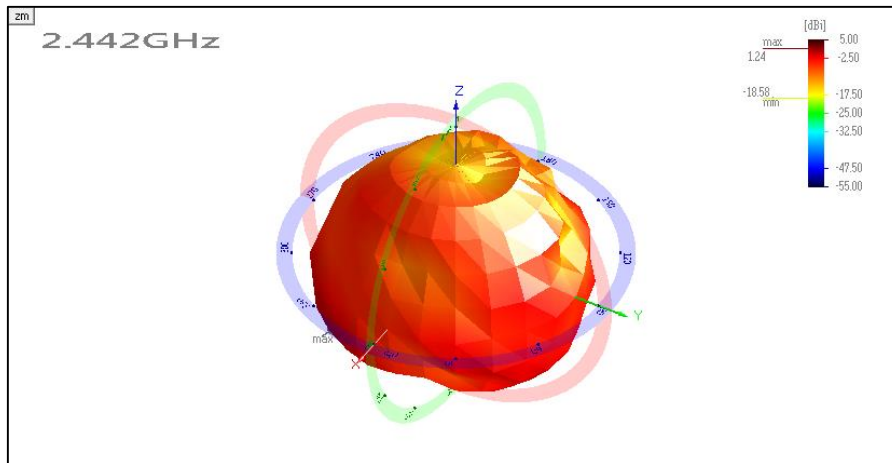
- Measured antenna gain table

Frequency [MHz]	Efficiency [%]	Average gain [dBi]	Peak gain [dBi]
2400	22.97	-6.39	-0.79
2442	40.83	-3.89	1.24
2485	32.35	-4.90	0.06

## 2. Antenna Performance in SET condition

### 2-3. Measured radiation pattern

#### - 3D radiation patterns



#### - 2D radiation patterns [2442 MHz]

