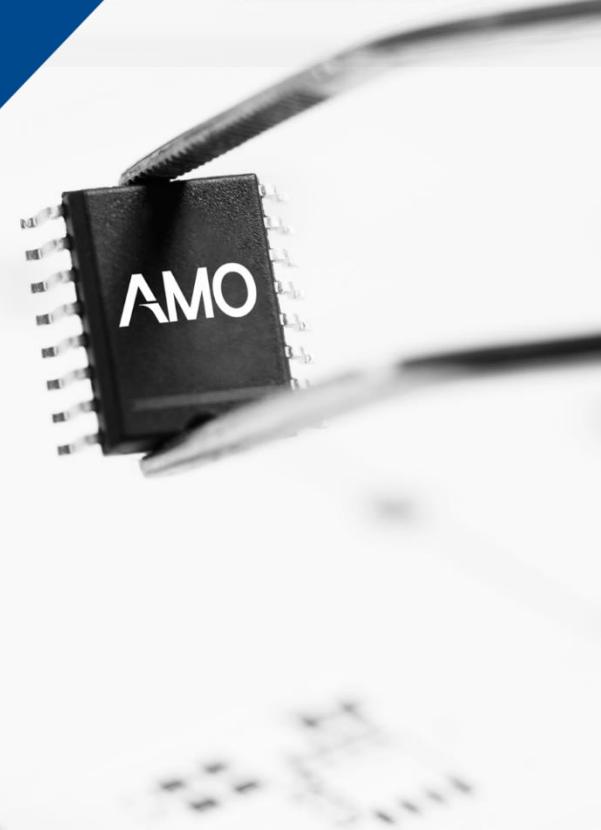


Antenna Specification Report

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

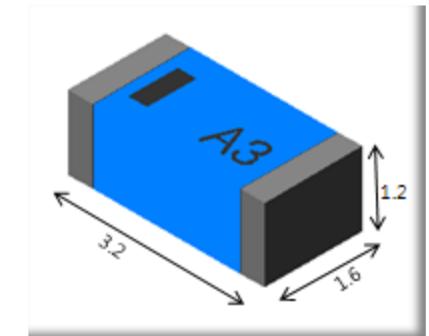
23. Oct. 2020



1. Antenna Specification

1-1. Electrical specification

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



- ✓ The results are measured on the Set

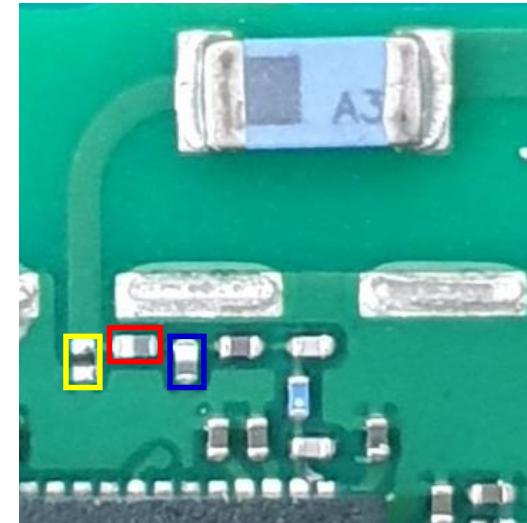
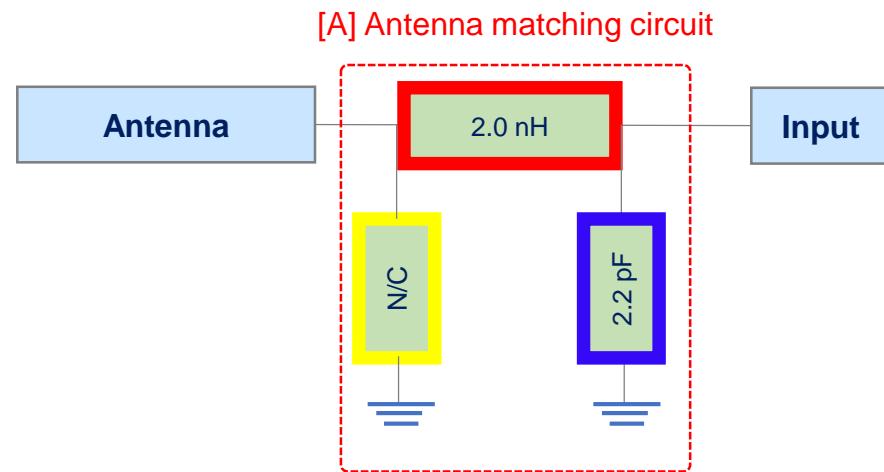
1-2. Mechanical specification

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

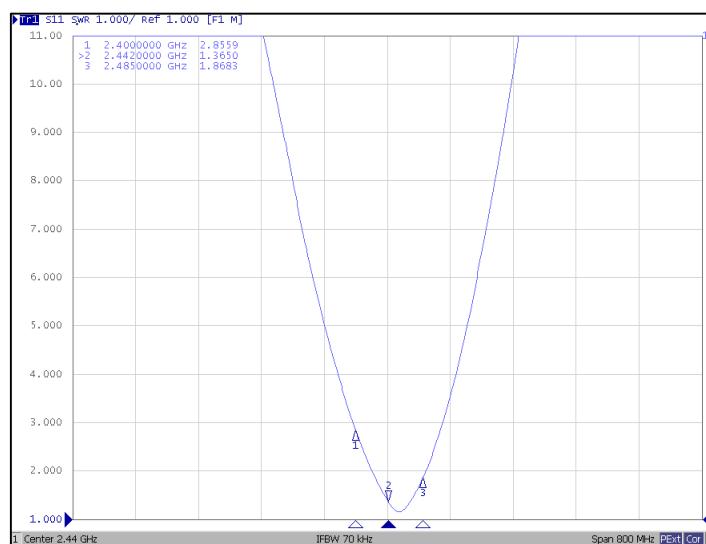
- ✓ In general, we recommend that the storage environment of parts should be at ambient temperatures of 5 to 40°C and maximum 60%RH humidity.

2. Antenna Performance in SET condition

2-1. Matching value information



2-2. Measured results



Measured VSWR

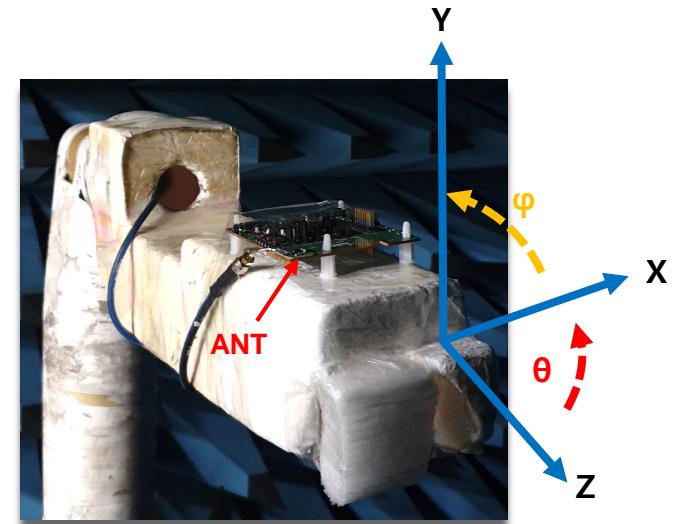
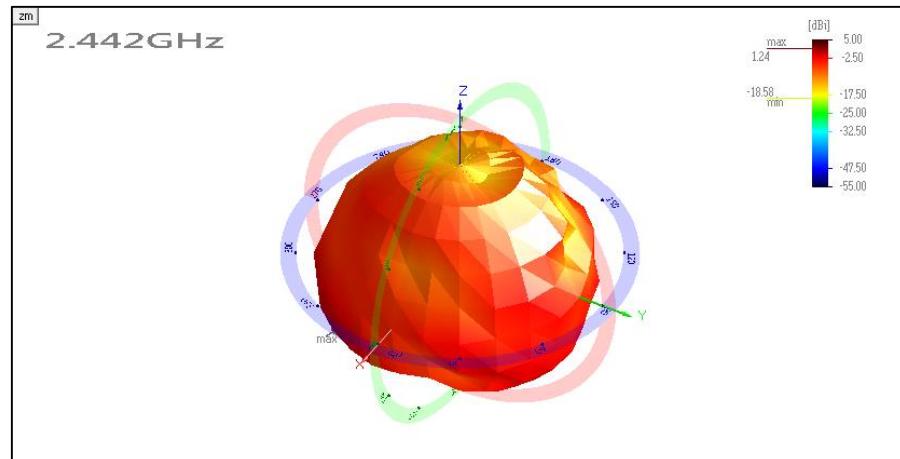
- Measured antenna gain table

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]

