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Presented by FangTan Jin

INPAQ Technology Co., Ltd.

2022/11/16

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Version	Date	Description	Author
V01	2022/11/09	New Release	FangTan Jin

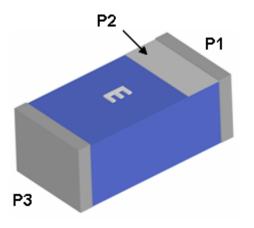
FEATURES

- 1. Surface Mounted Devices with a small dimension of 3.2 X 1.6 X1.2 mm³ meet future miniaturization trend.
- 2. LTCC process
- 3. High stability in Temperature / Humidity Change
- 4. Multilayer ceramic antenna(chip antenna)

APPLICATIONS

- 1. 2.4GHz ISM band RF applications
- 2. Bluetooth, Wireless, HomeRF

CONSTRUCTION



PIN	Connection	
1	Feeding	
2 Identification Mark		
3	Soldering terminal	





Figure	Symbol	Dimension (mm)
	L	3.20 ± 0.20
	W	1.60 ± 0.10
E	Т	1.20 ± 0.10
	A	0.25 ± 0.15

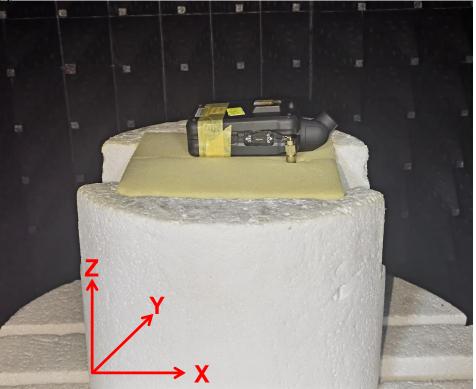


OUTLINE

- 1. Measurement Information
 - 1.1 Experimental Setup
 - 1.2 Antenna Solution Detail
- 2. Antenna Characteristics
 - 2.1 S-Parameter
 - 2.2 Antenna Efficiency and Peak Gain
 - 2.3 3D Pattern & 2D Radiation Patterns
 - 2.4 Summary Table

1. Measurement Information

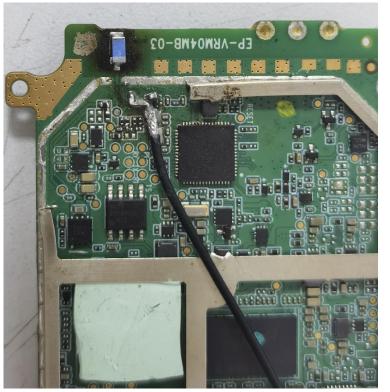
1.1 Experimental Setup



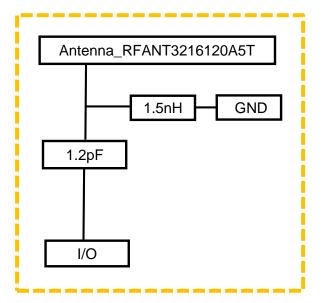


1. Measurement Information

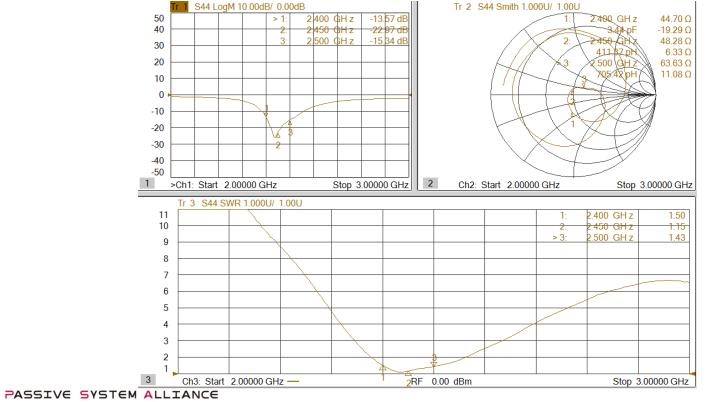
1.2 Antenna Solution Detail



Matching values

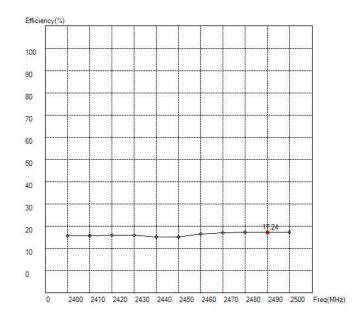


2.1 S-Parameter



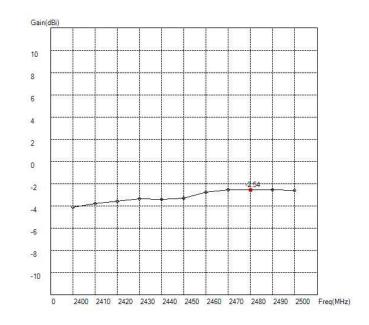
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2.2 Antenna Efficiency and Peak Gain



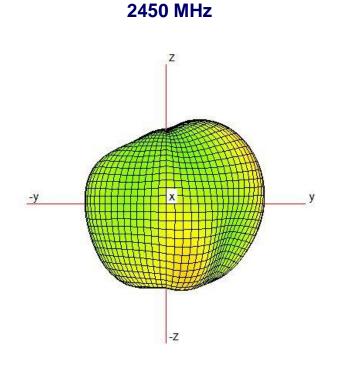
Maximum Efficiency at 2490MHz : 17.24 %

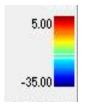
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Maximum Peak Gain at 2480 MHz : -2.54 dBi

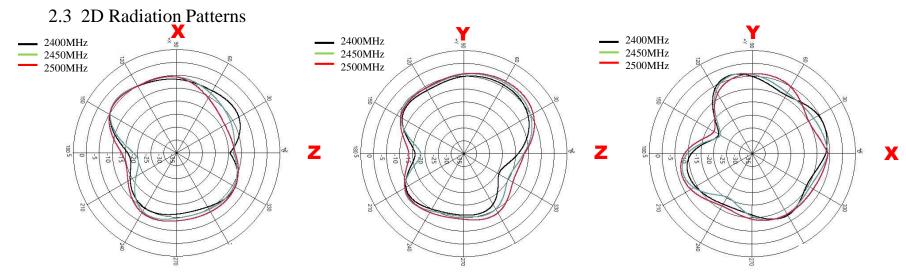
2.3 3D Pattern





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WE CONNECT WE PROTECT **PSA**



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-5.11	-8.48	-4.18	-8.27	-5.03	-8.21
2450	-4.96	-8.49	-3.27	-7.29	-4.25	-8.13
2500	-5.04	-8.37	-2.60	-6.71	-3.98	-7.59

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2.4 Summary Table

ANT					
Frequency (MHz)	2400	2450	2500		
Efficiency (%)	15.55	15.21	17.19		
Peak gain (dBi)	-4.12	-3.27	-2.60		

Thank you

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