



1. General Description

1.1 Electrical Properties

Parameter	Description					
Frequency Band	698~960/1710~2690 MHz					
Nominal Impedance	50 Ω					
Polarization	Linear					
V.S.W.R.	<3.5:1					
(MHz)	698~798	824~960	1710~2170	2300~2400	2490~2690	
Efficiency (%)	65	57	69	67	62	
Peak Gain (dBi)	1.4	0.7	3.2	3.8	4.2	
With 45 x 120 mm Evaluation Board & 45 x 13 mm Clearance Area						

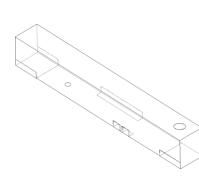
1.2 Mechanical Properties

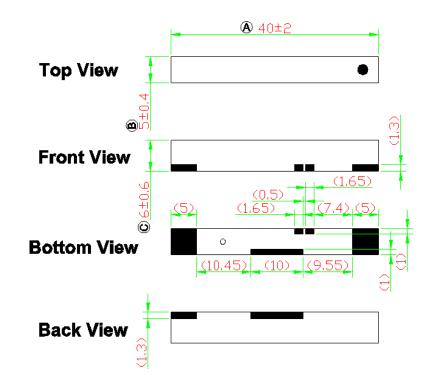
Parameter	Description		
Dimensions	40*5*6 mm		
Operating Temperature	-40°C~85°C		
Storage Temperature (With Packing Sealed)	-5°C~40°C		

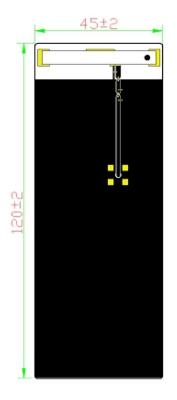


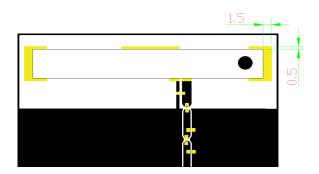
2. Appearance

2.1 Dimensions Of Antenna And Evaluation Board (Unit : mm)











2.2 PIN Definitions

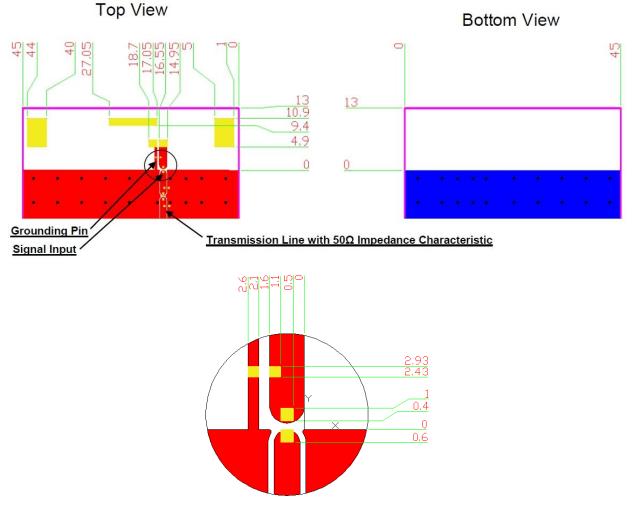
PIN1 PIN2								
	PIN3 ·	PIN5						
PIN4								
Bottom View								
Item	PIN 1	PIN 2	PIN 3~5					
Soldering Pad	Tuning / Ground	Signal	N/C					

3. Layout Guide (Unit : mm)

The solder land pattern (yellow marking areas) is shown as below.

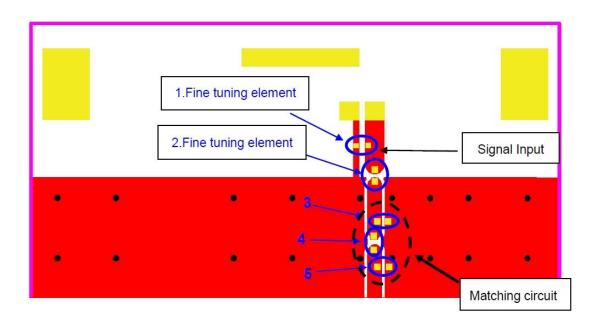
Recommendation on matching circuit will be provided according to customer's installation conditions.



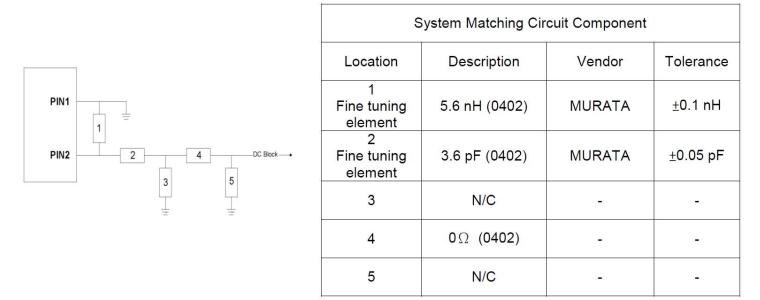




4. Frequency Tuning And Matching Circuit



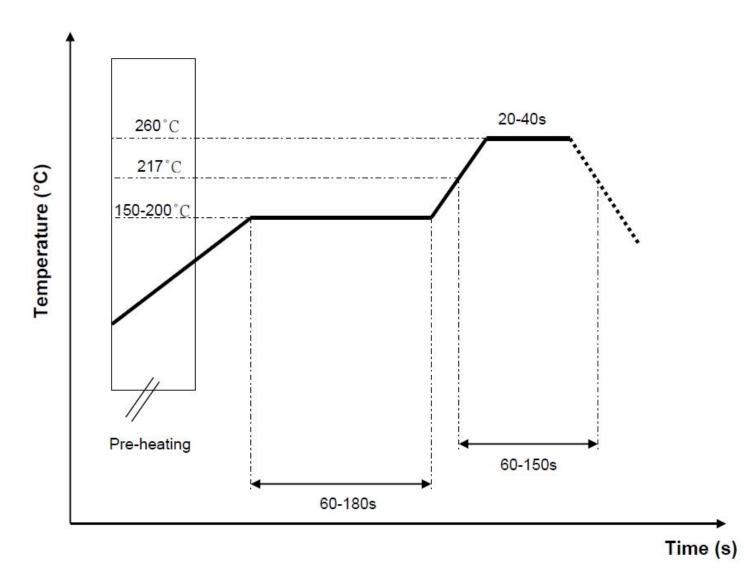
With the following recommended values of matching and tuning components, the covering frequency bands will be about $698\sim960 \& 1710\sim2690$ MHz at our standard 45x120 mm evaluation board.



*These are typical reference values which may need to be changed when circuit boards or part vendors are different.



5. Soldering Conditions

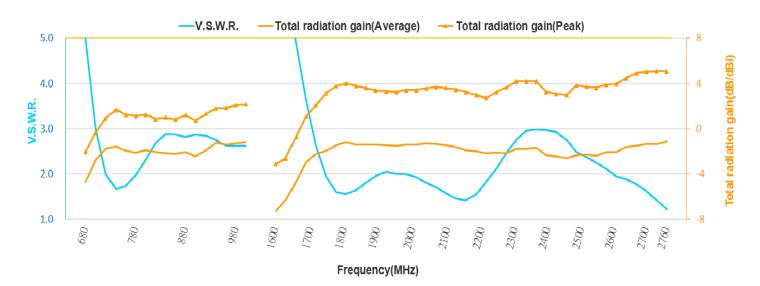


* Recommended solder paste alloy : SAC305(Sn96.5/Ag3/Cu0.5) Lead free solder paste.



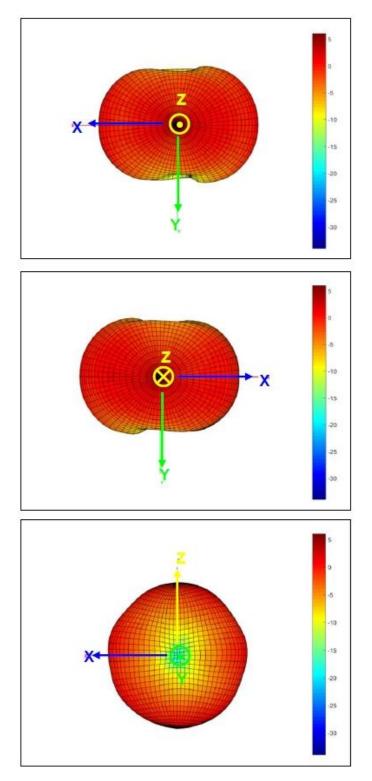
6. Performance

6.1 V.S.W.R. , Average Gain , Peak Gain

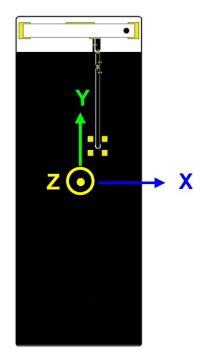




6.23D Radiation Pattern

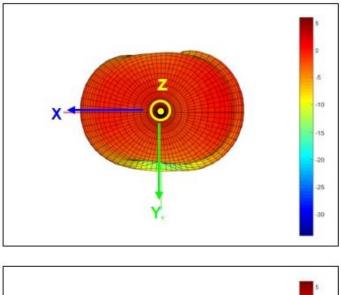


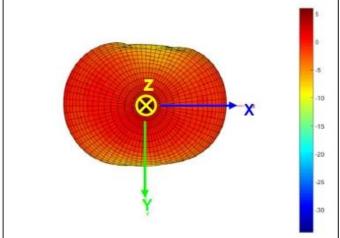
698~798 MHz 3D Gain Pattern @ 748 MHz (Unit : dBi)

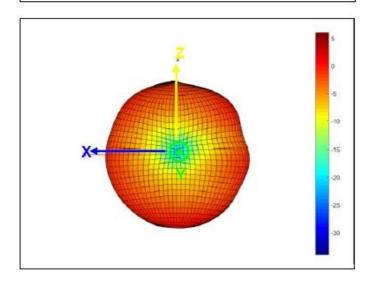


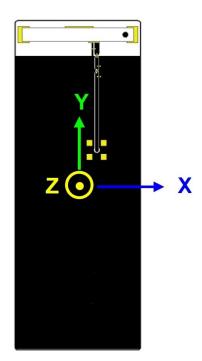


824~960 MHz 3D Gain Pattern @ 900 MHz (Unit : dBi)



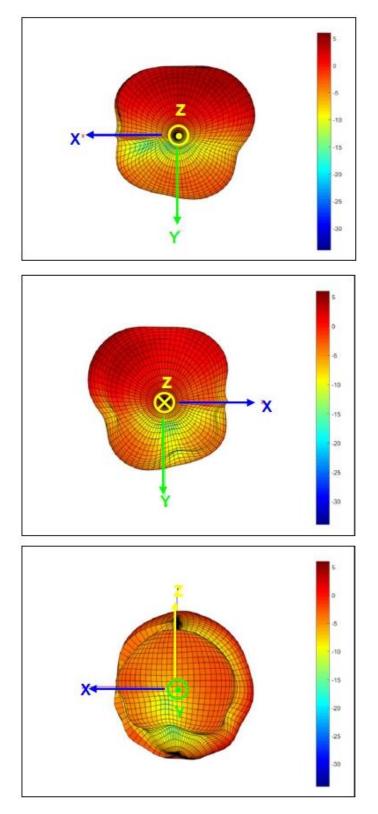


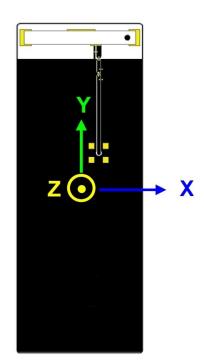






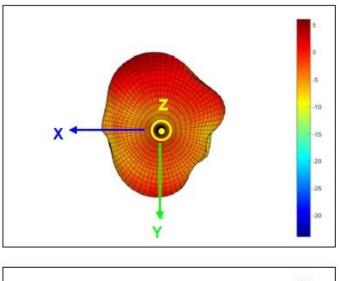
1710~2170 MHz 3D Gain Pattern @ 1950 MHz (Unit : dBi)

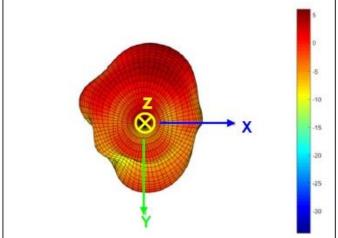


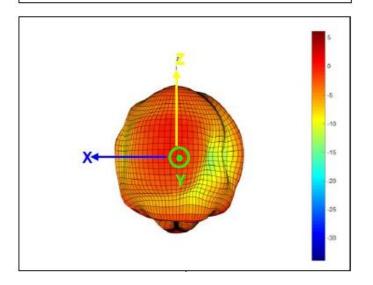


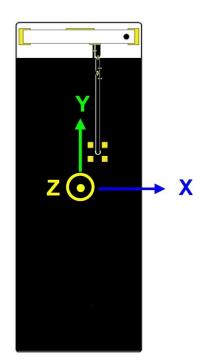


2300~2400 MHz 3D Gain Pattern @ 2350 MHz (Unit : dBi)





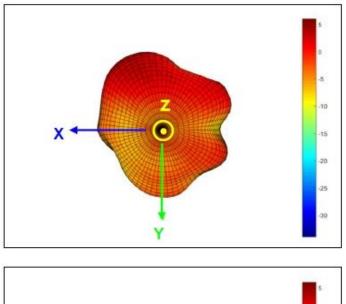


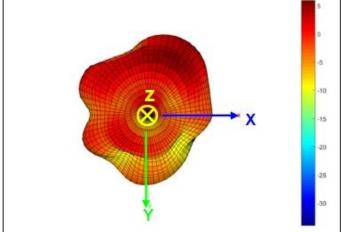


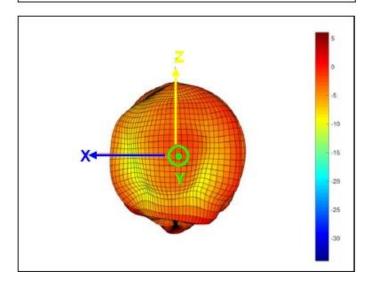
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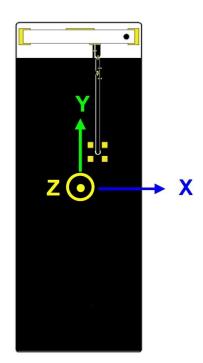


2490~2690 MHz 3D Gain Pattern @ 2590 MHz (Unit : dBi)





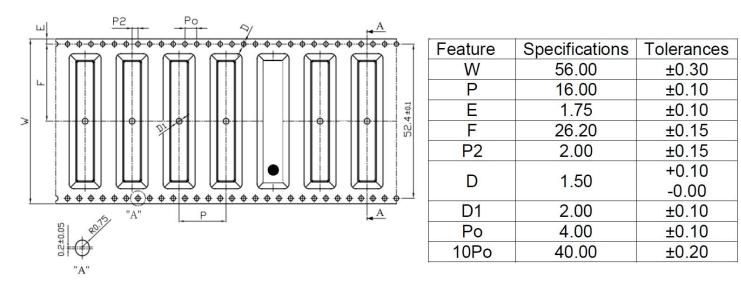






7. Packing

• Tape :



• Reel : 600 pcs

