





# 1. General Description

## **1.1 Electrical Properties**

Parameter	Description						
Frequency Band	750~960 MHz						
Nominal Impedance	50 Ω						
Polarization	Linear						
V.S.W.R	<3:1						
	791 MHz	824 MHz	862 MHz	880 MHz	894 MHz	960 MHz	
Efficiency	40.7 %	54.5 %	62.4 %	62.2 %	61.3 %	53.9 %	
Average Gain	-3.9 dBi	-2.6 dBi	-2.1 dBi	-2.1 dBi	-2.1 dBi	-2.7 dBi	
Peak Gain	-1.2 dBi	0.1 dBi	1.2 dBi	1.4 dBi	1.4 dBi	0.7 dBi	
With 35 x 115 mm Evaluation Board & 35 x 12.5 mm Clearance Area							

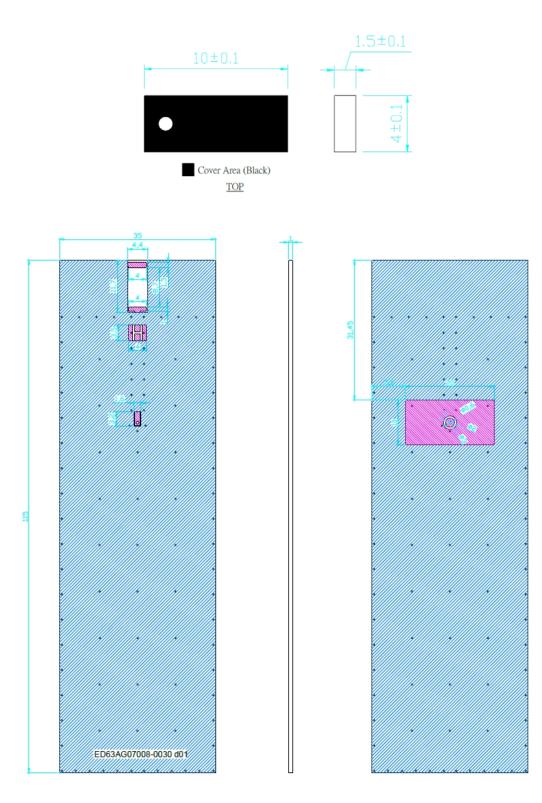
## **1.2 Mechanical Properties**

Parameter	Description
Dimension	10×4×1.5 mm
Operating Temperature	-30°C~85°C
Storage Temperature (With Packing Sealed)	-30°C~85°C



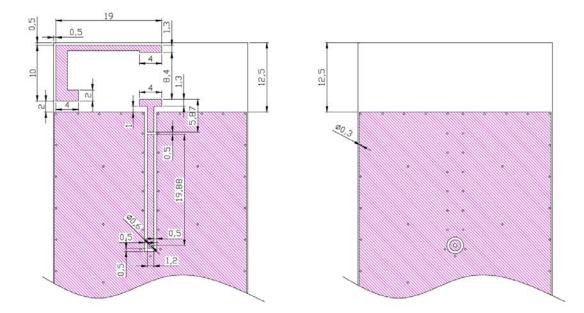
## 2. Appearance

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

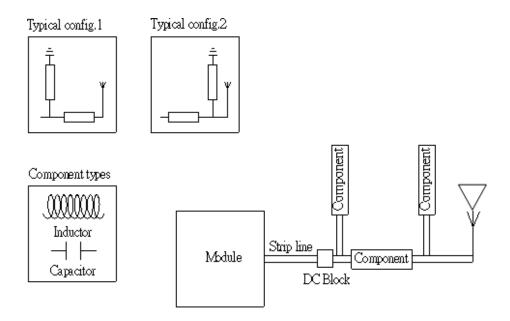




# 3. Layout Guide (Unit : mm)



## 4. Transmission And Matching Circuit



The matching network has to be individually designed using one, two or three components.

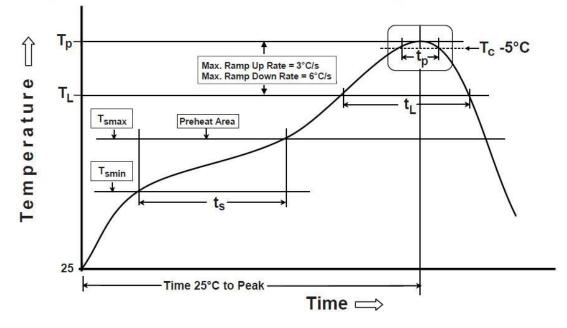
## 5. Soldering Conditions

The product can be assembled following Pb-free assembly. According to the Standard **IPC/JEDEC J-STD-020C**, the temperature profile suggested is as follow :

Phase	Profile features	Pb-Free Assembly (SnAgCu)		
PREHEAT	-Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(ts) form (Tsmin to Tsmax)	150°C 200°C 60~120 seconds		
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second max.		
REFLOW	-Temperature(TL) -Total Time above TL (t L)	217°C 30~100 seconds		
PEAK	-Temperature(TP) -Time(tp)	260°C 10 seconds		
RAMP-DOWN	Rate	6°C/second max.		
Time from 25°C to Peak Temperature		8 minutes max.		
Composition of solder paste		Sn 96.5/ Ag 3/Cu 0.5		
Solder Paste Model		SHENMAO PF606-P26		

Note : All the temperature measure point is on top surface of the component, if temperature over recommend, it will make component surface peeling or damage.

The graphic shows temperature profile for component assembly process in reflow ovens





#### Soldering With Iron:

Temperature 270±10 °C.

Apply preheating at 120°C for 2-3 minutes.

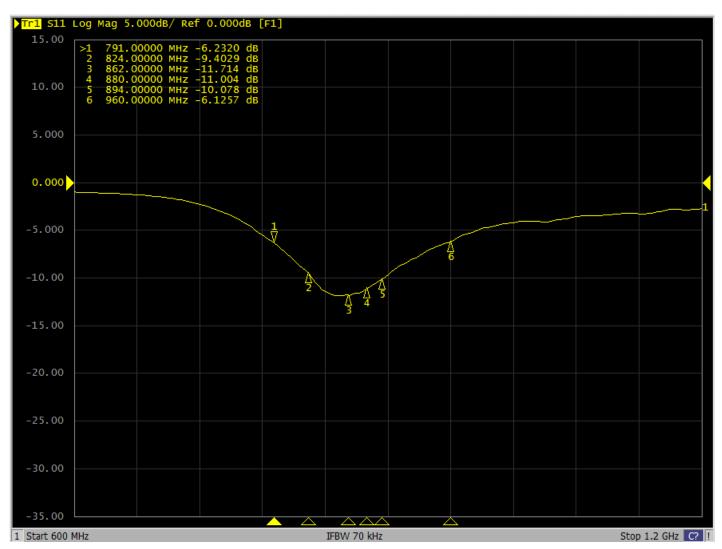
Finish soldering for each terminal within 3 seconds, if soldering iron over temperature 270±10 °C or

3 seconds, it will make component surface peeling or damage.

Soldering iron can not leakage of electricity.

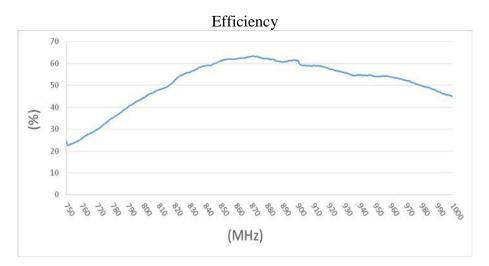
#### 6. Performance

#### 6.1 Return Loss

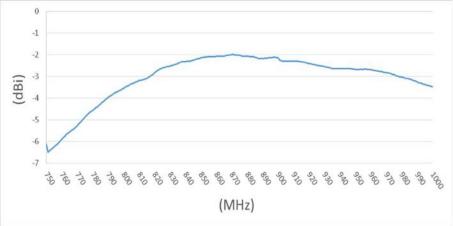


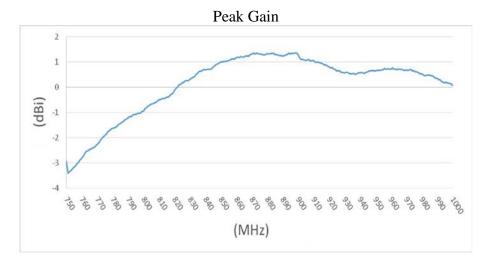


6.2 Efficiency , Average Gain , Peak Gain



Average Gain

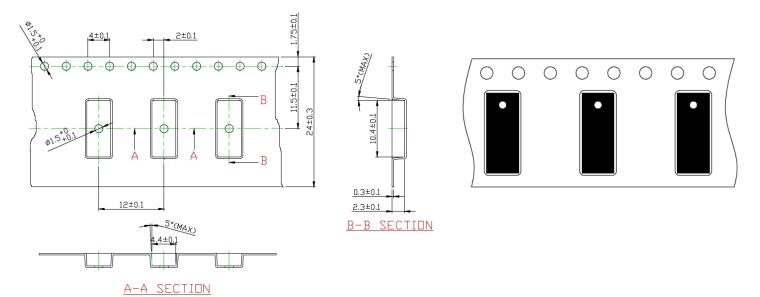






## 7. Packing

• Tape :



• Reel : 2,000 pcs

