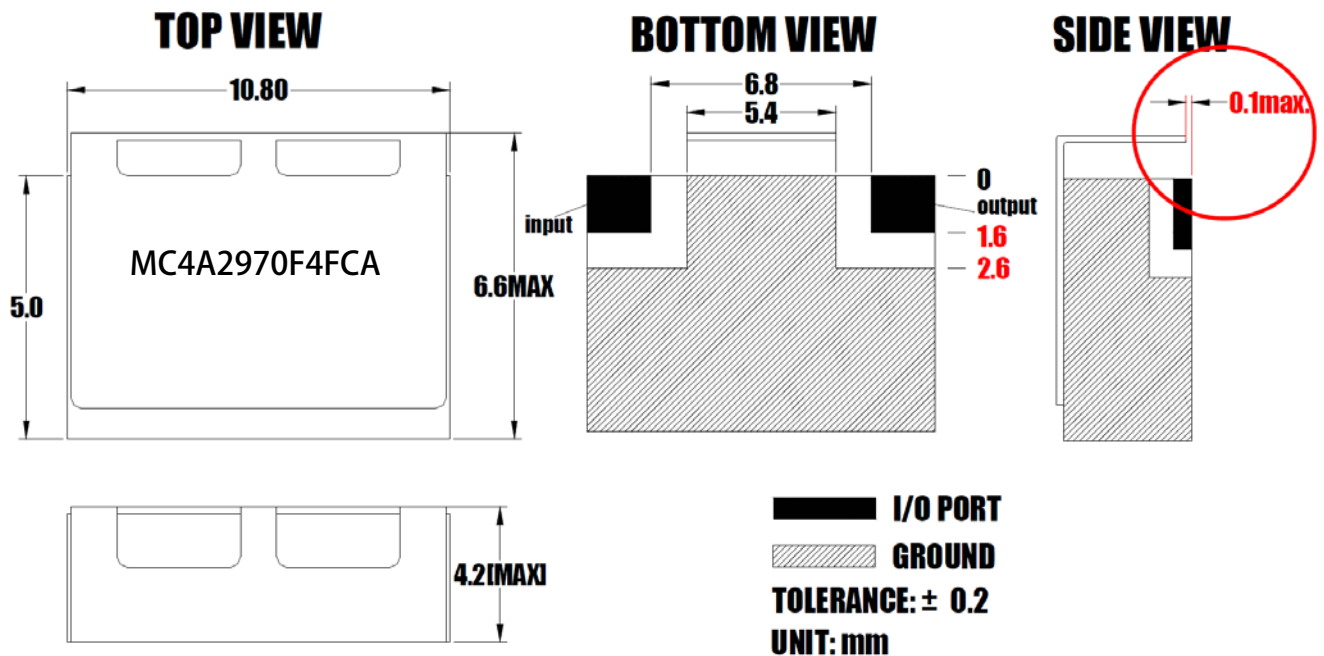


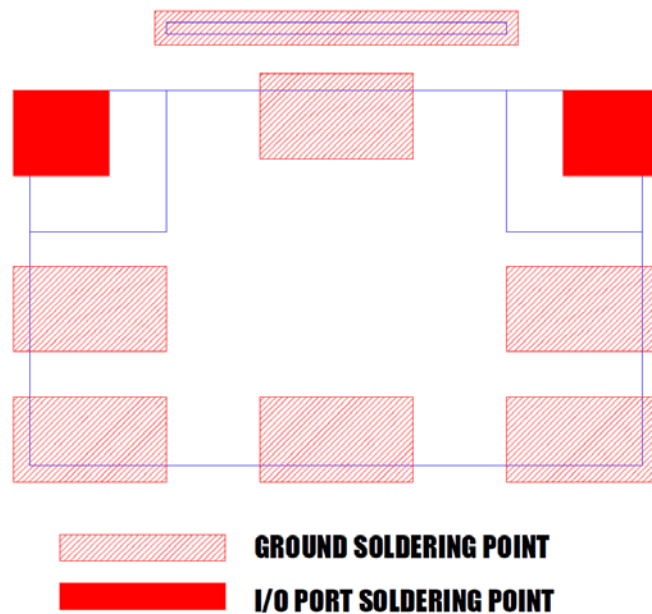
### Electrical Specification

Parameter	Specification	Unit
Center Frequency	2970	MHz
Bandwidth (BW)	$F_0 \pm 2[2968 \sim 2972]$	MHz
Insertion Loss in BW	3.0 max.	dB
Ripple in BW	1.0 max.	dB
Return Loss in BW	18 min.	dB
Attenuation (Absolute Value)	40 min.@2700~2900 MHz	dB
	50 min.@0~2700 MHz	
	40 min.@3150~5000 MHz	
Impedance	50	ohm
Input Power	10	dBm
Operating Temperature	-40 to +85	°C

### Outline Drawing



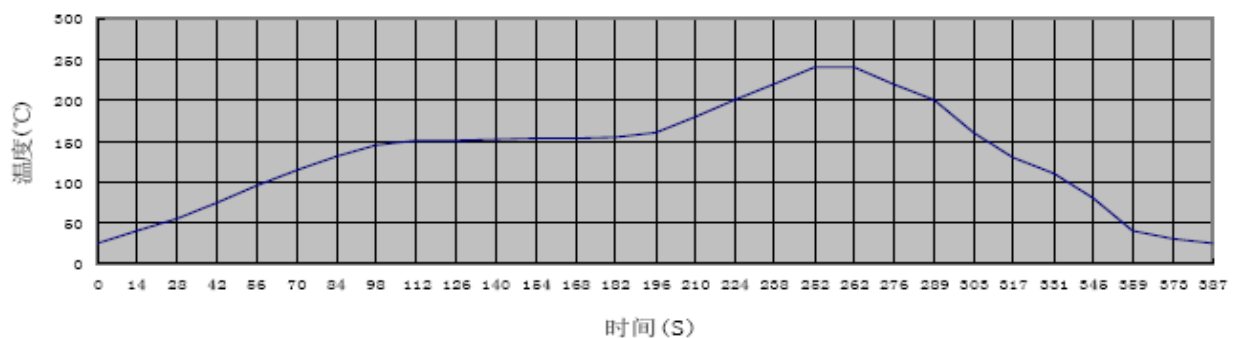
## Recommended PCB Layout



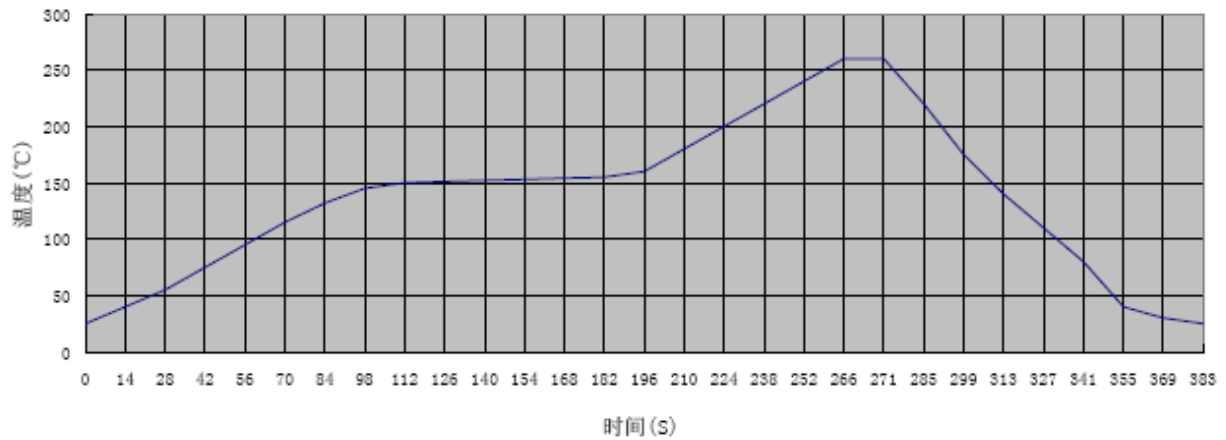
Remarks: Recommend to use silver-containing solder paste

## Application Instructions:

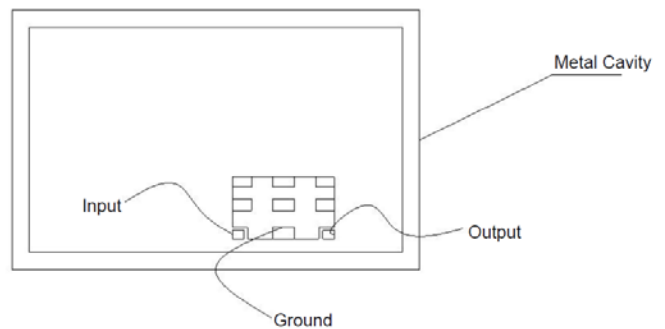
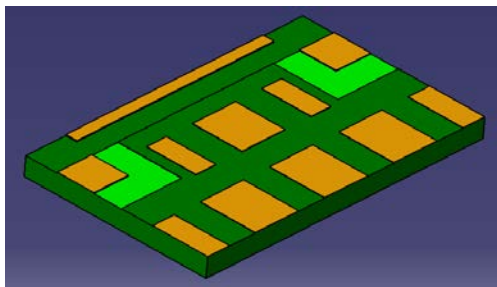
1. Recommended Soldering Temperature
  - a. Containing Pb Soldering,  
Recommend the solder paste of melting points 183°C, soldering temperature won't exceed 230°C. Refer to the below reflow soldering profile.



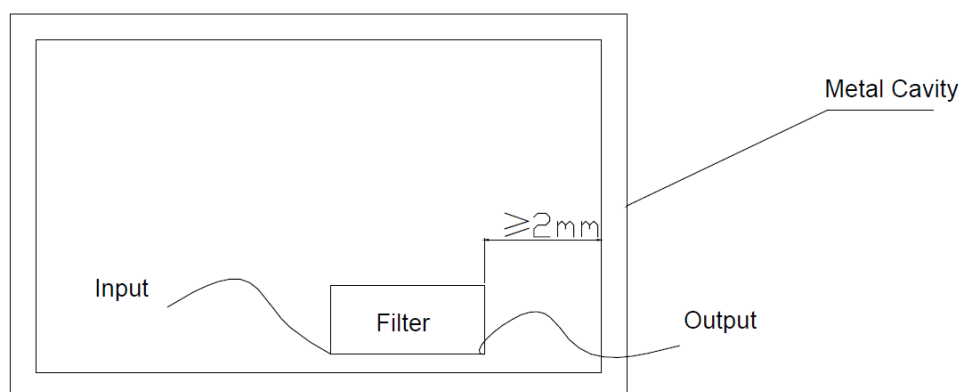
- b. Pb-free soldering  
Recommend the solder paste of melting point 217°C, soldering temperature won't exceed 260°C. Refer to the below reflow soldering profile.



- PCB layout for soldering the filter should be designed in grid pattern. Refer to recommended PCB Layout for more details. Soldering Area is 50%-70% of ground area of this filter.



- This filter should be soldered 2mm (at least) away from metal cavity, in order to avoid degrading filter's performance by metal cavity. Refer to the below figure.



- It would achieve better performance that the top of the filter is grounded too.
- Mounting screws around the filter should be 1cm away from the filter.
- To avoid PCB transformation during mounting the filter.
- If customer will solder PCB of the filter on Aluminum plate, please contact us directly.