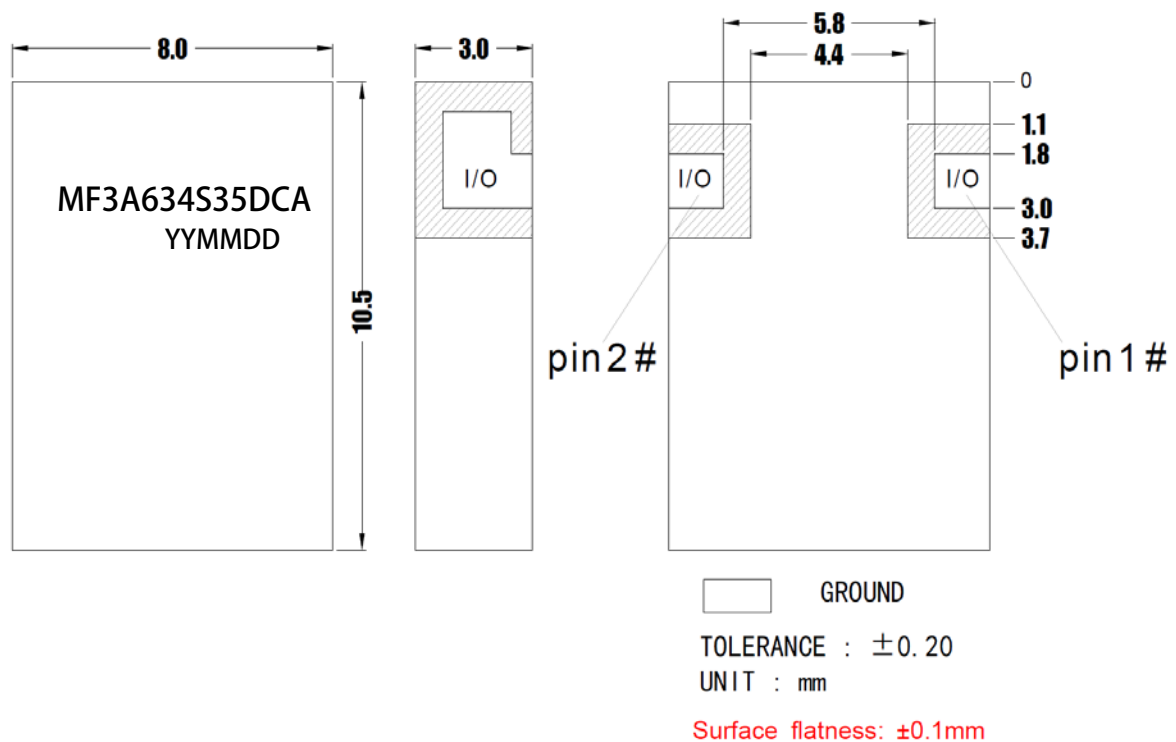


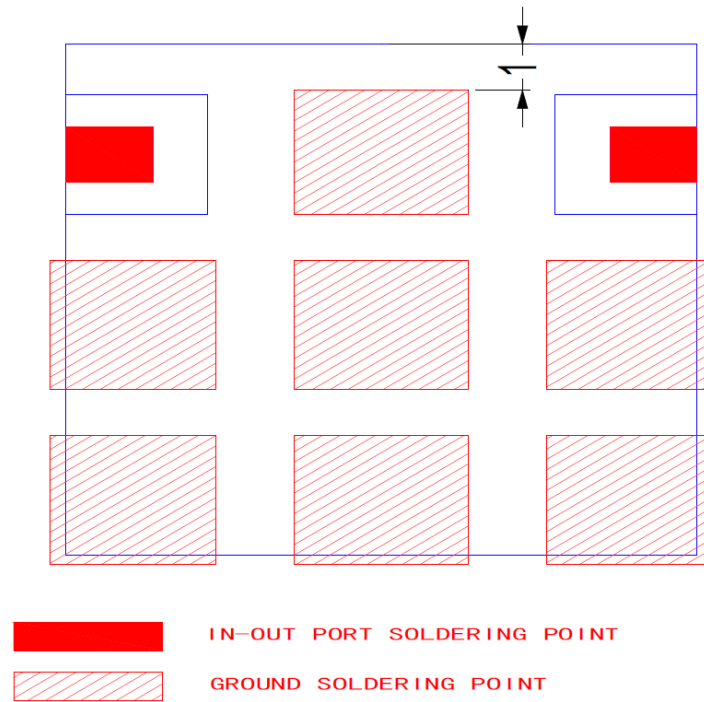
### Electrical Specification

Parameter	Specification	Unit
Center Frequency	634.5	MHz
Bandwidth (BW)	$F_0 \pm 17.5 [617 \sim 652]$	MHz
Insertion Loss in BW	2.5 max.	dB
Ripple in BW	0.3 max.	dB
Return Loss in BW	16 min.	dB
Attenuation (Absolute Value)	30 min.@DC~350 MHz	dB
	25 min.@728~768 MHz	
	30 min.@862~894 MHz	
Impedance	50	ohm
Group Delay	15.5 max	ns
Group Delay Variation	10 max.	ns
Power	0.5 max.	W
Operating Temperature	-40 to +85	°C

### Outline Drawing



## Recommended PCB Layout



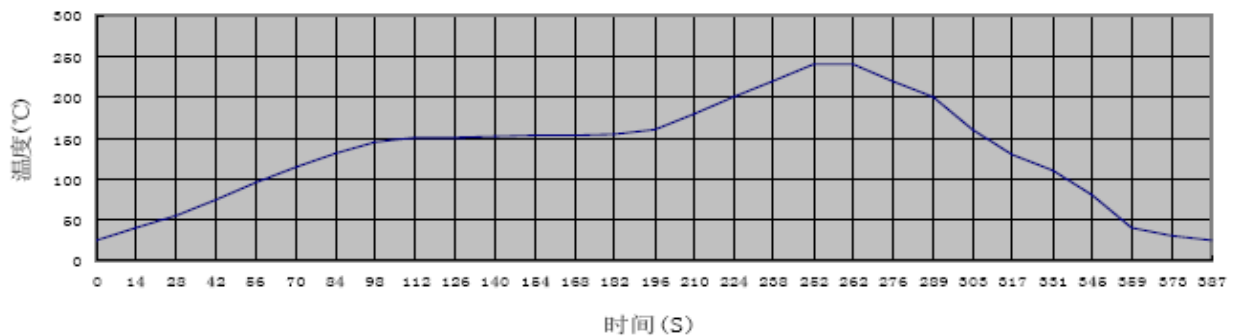
Remarks: Recommend to use silver-containing solder paste

## Application Instructions:

### 1. Recommended Soldering Temperature

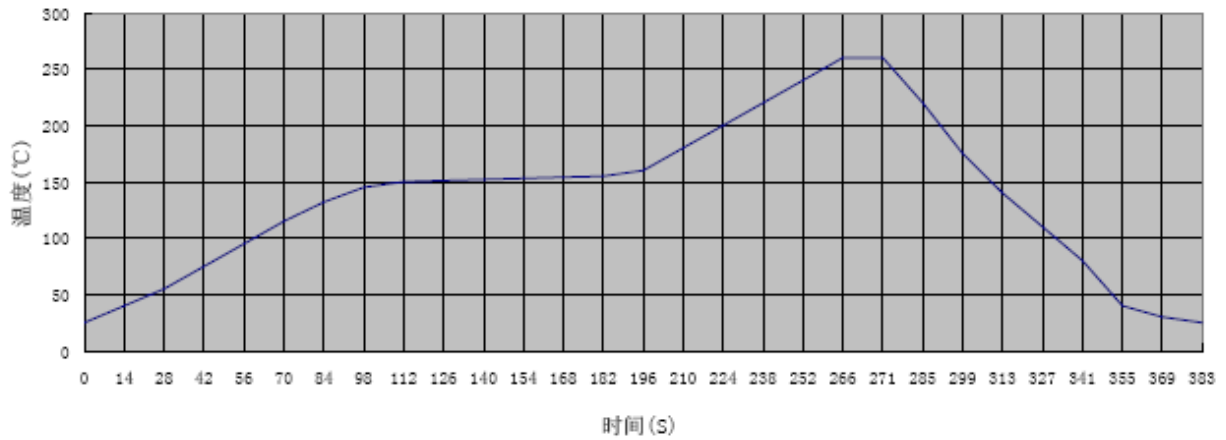
#### a. Containing Pb Soldering,

Recommend the solder paste of melting points 183°C, soldering temperature won't exceed 230°C. Refer to the below reflow soldering profile.

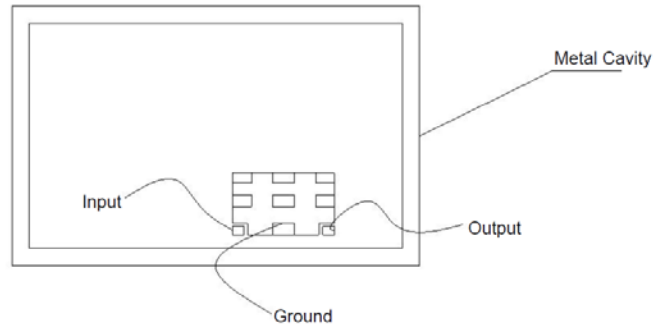
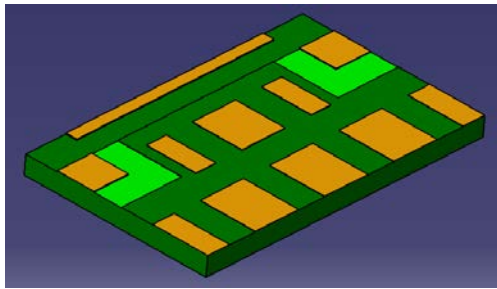


#### b. Pb-free soldering

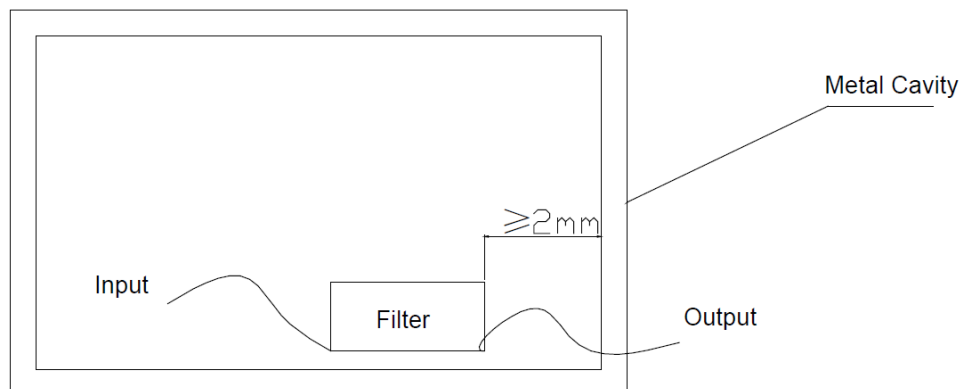
Recommend the solder paste of melting point 217°C, soldering temperature won't exceed 260°C. Refer to the below reflow soldering profile.



- 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.