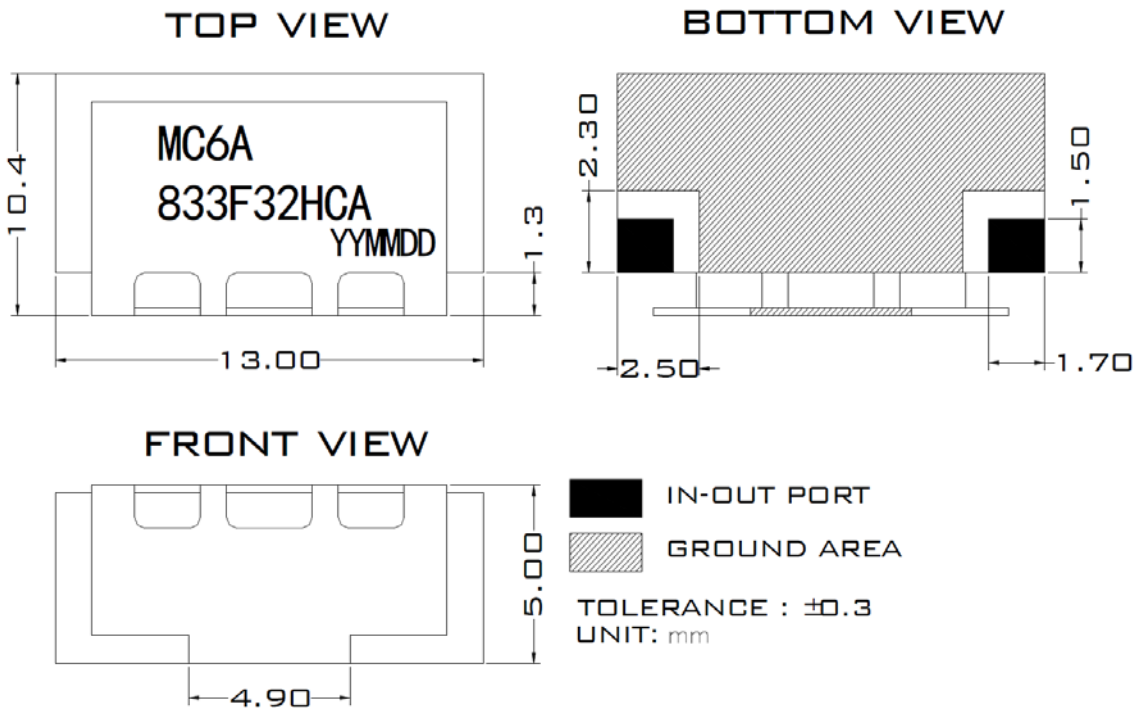
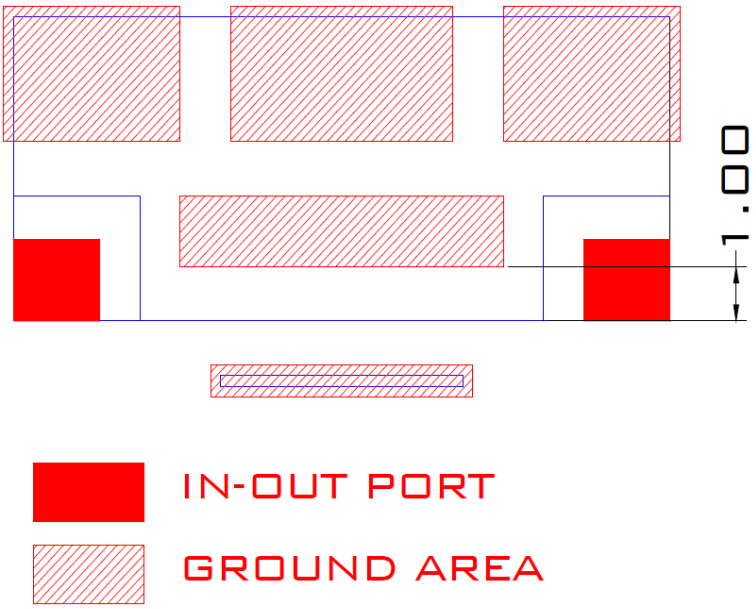
Electrical Specification

Parameter	Specification	Unit
Center Frequency	833	MHz
Bandwidth (BW)	F0±16[817~849]	MHz
Insertion Loss in BW	2.2 max.	dB
Ripple in BW	0.5 max.(p-p)	dB
VSWR in BW	16 min.	dB
Attenuation（Relative Value）	30 min.@DC~600 MHz	dBc
	25 min.@617~768 MHz	
	30 min.@979~1100 MHz	
	7 min.@862~894 MHz	
	min.@1805~2000 MHz (No attenuation value)	
	min.@2100~3800 MHz (No attenuation value)	
Impedance	50	ohm
Input Power	0.5 max.	W
Operating Temperature	-40 to +85	℃

Outline Drawing



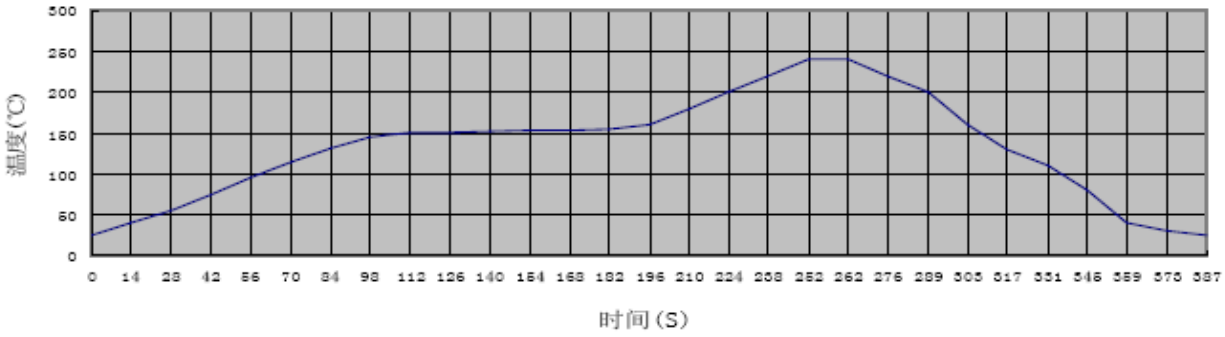
Recommended PCB Layout



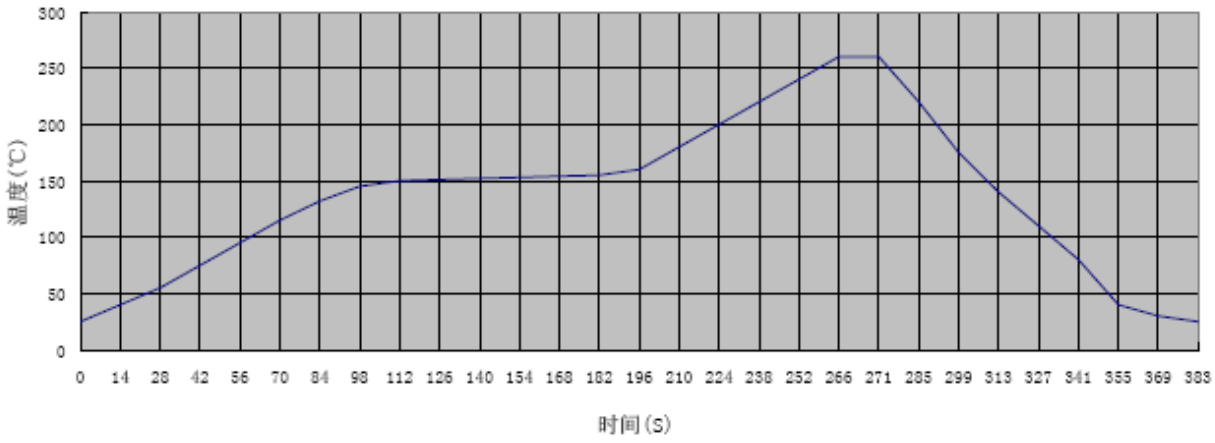
Remarks: Recommend to use silver-containing solder paste

Application Instructions:

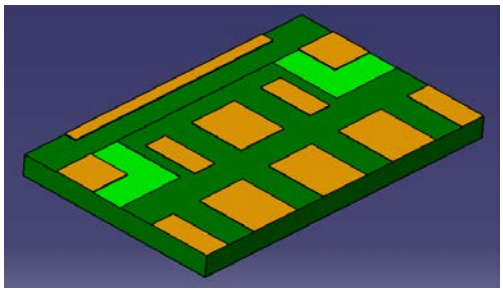
1. Recommended Soldering Temperature
   a. Containing Pb Soldering,
      Recommend the solder paste of melting points 183℃, soldering temperature won't exceed 230℃. Refer to the below reflow soldering profile.

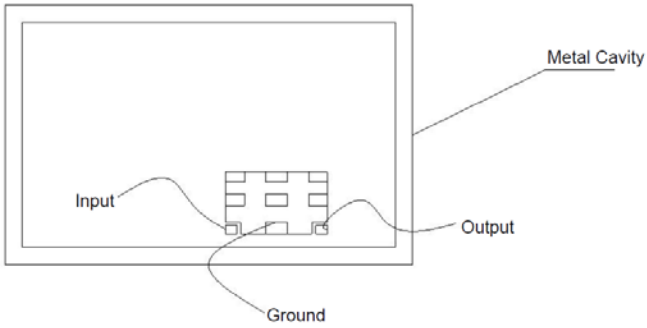


   b. Pb-free soldering
      Recommend the solder paste of melting point 217℃, soldering temperature won't exceed 260℃. Refer to the below reflow soldering profile.

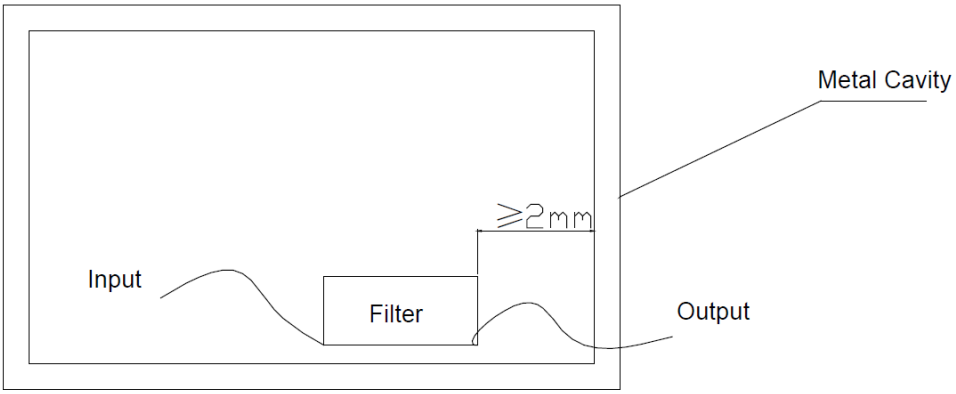


2. PCB layout for soldering the filter should be designed in grid pattern. Refer to recommended PCB Layout for more details. Soldering Area is 50%-70% of ground area of this filter.





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



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