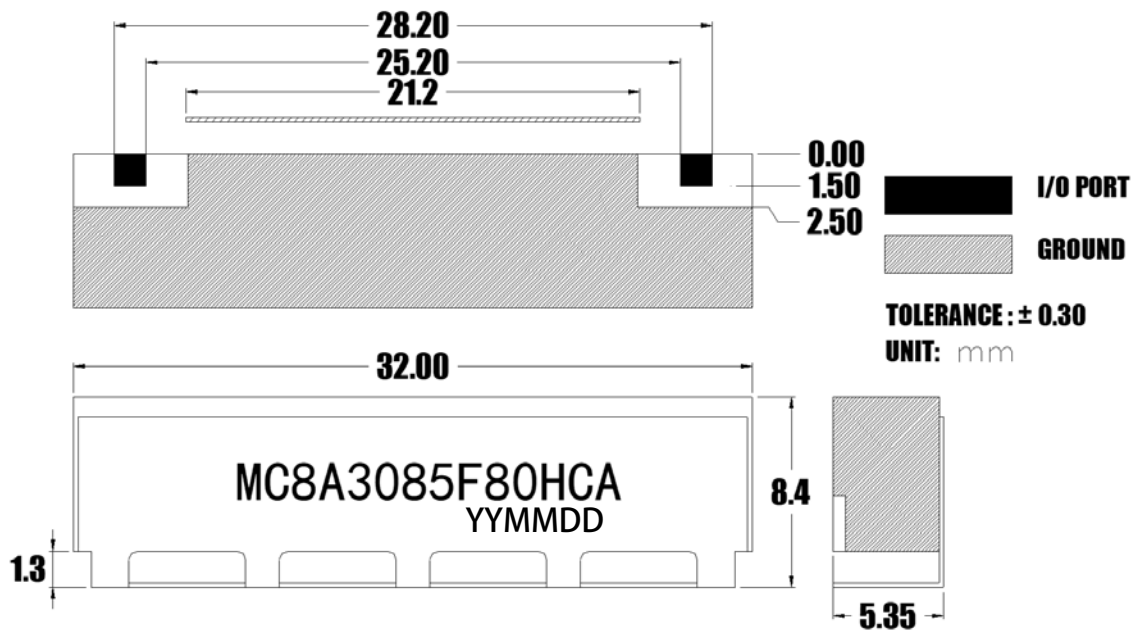


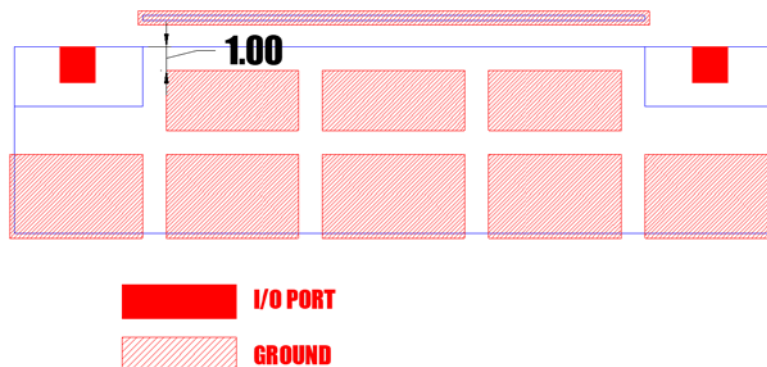
## Electrical Specification

| Parameter                    | Specification                 | Unit  |
|------------------------------|-------------------------------|-------|
| Center Frequency             | 3085.0                        | MHz   |
| Bandwidth (BW)               | $F_0 \pm 40 [3045 \sim 3125]$ | MHz   |
| Insertion Loss in BW         | 3.0 max.                      | dB    |
| Ripple in BW                 | 1.0 max.                      | dB    |
| Return Loss in BW (S11, S22) | 1.5 :1 max.                   | Ratio |
| Attenuation (Absolute Value) | 65 min@2970 MHz               | dB    |
|                              | 65 min@3200 MHz               |       |
| Impedance                    | 50                            | ohm   |
| Operating Temperature        | -40 to +85                    | °C    |

## Outline Drawing



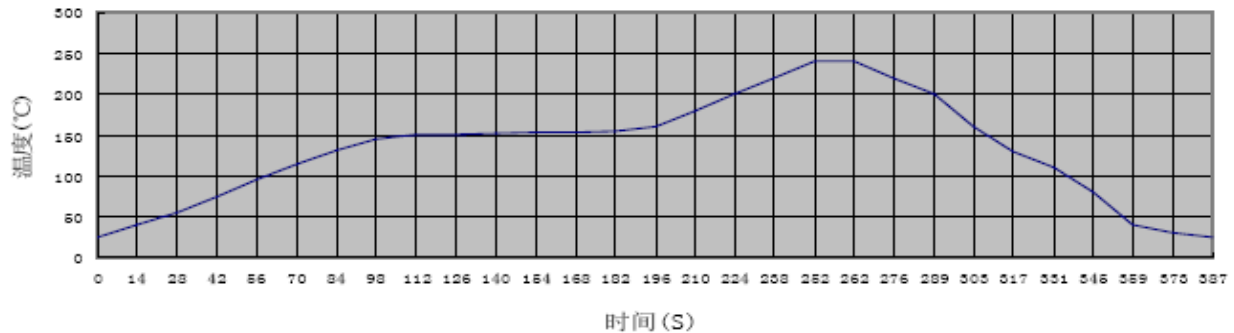
## Recommended PCB Layout



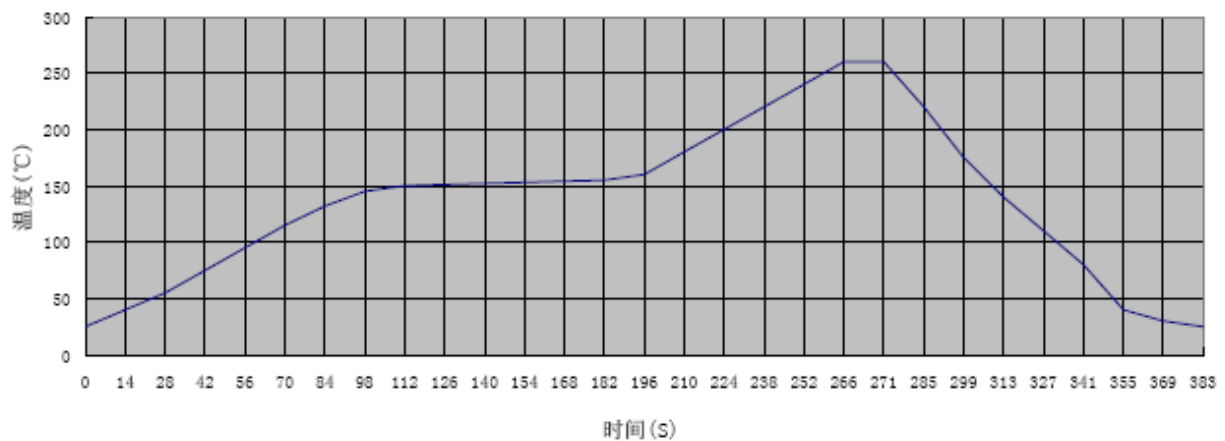
Remarks: Recommend to use silver-containing solder paste

### Application Instructions:

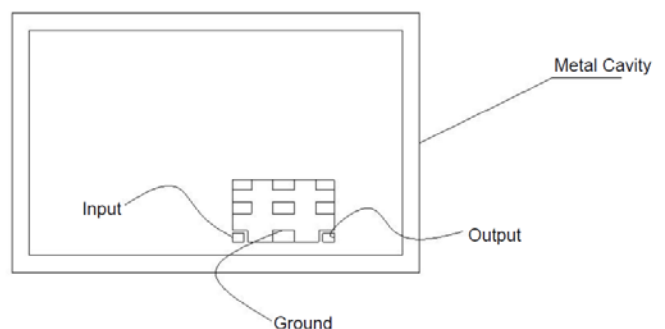
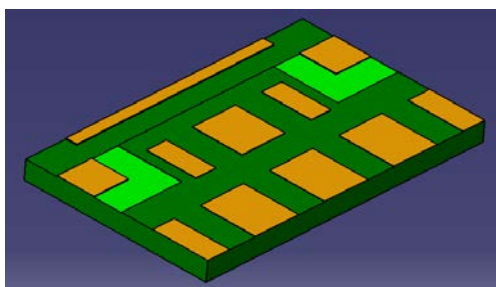
1. Recommended Soldering Temperature
  - a. Containing Pb Soldering,  
Recommend the solder paste of melting points 183°C, soldering temperature won't exceed 230°C. Refer to the below reflow soldering profile.



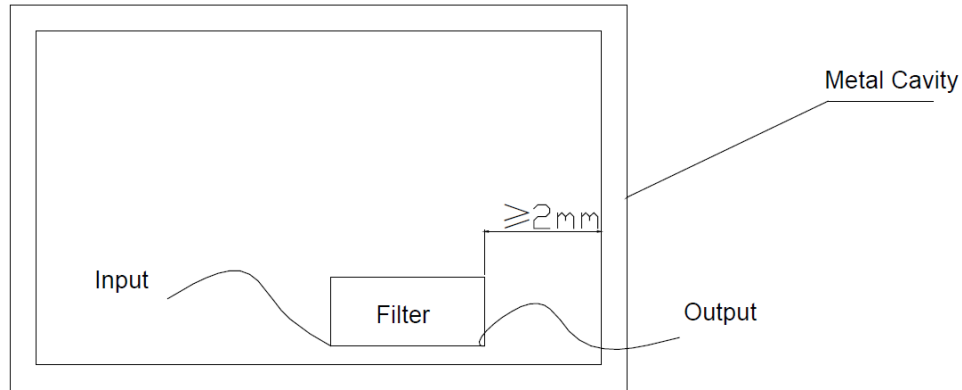
- b. Pb-free soldering  
Recommend the solder paste of melting point 217°C, soldering temperature won't exceed 260°C. Refer to the below reflow soldering profile.



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 metal cavity, in order to avoid degrading filter's performance by metal 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.