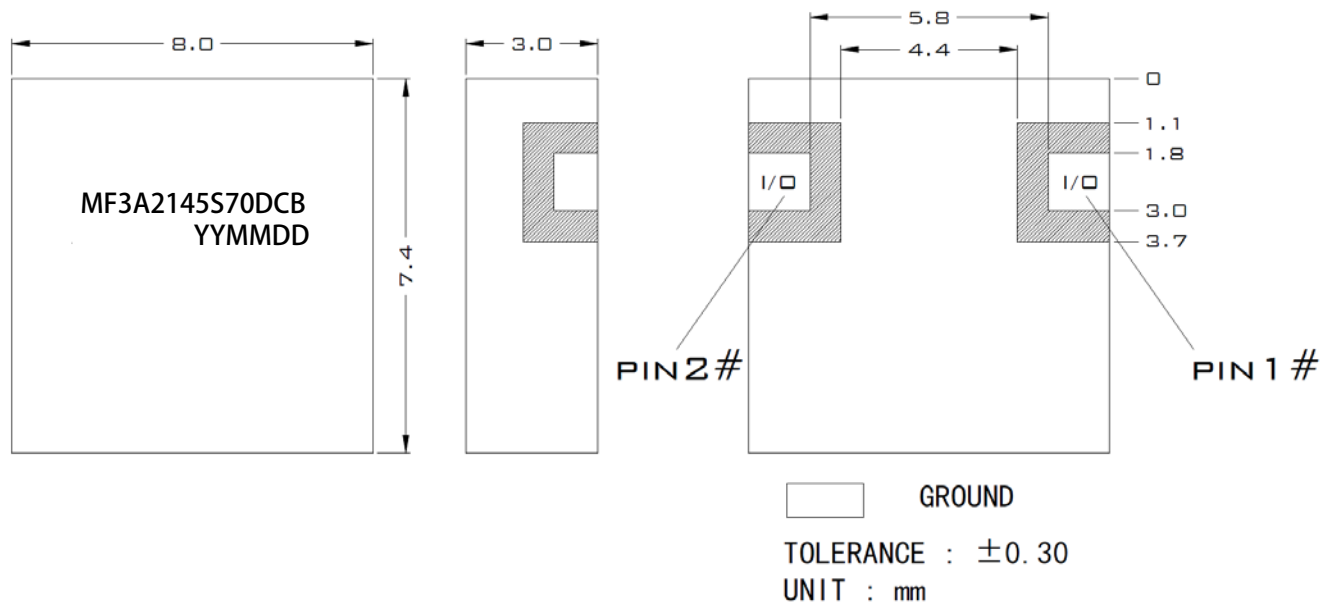


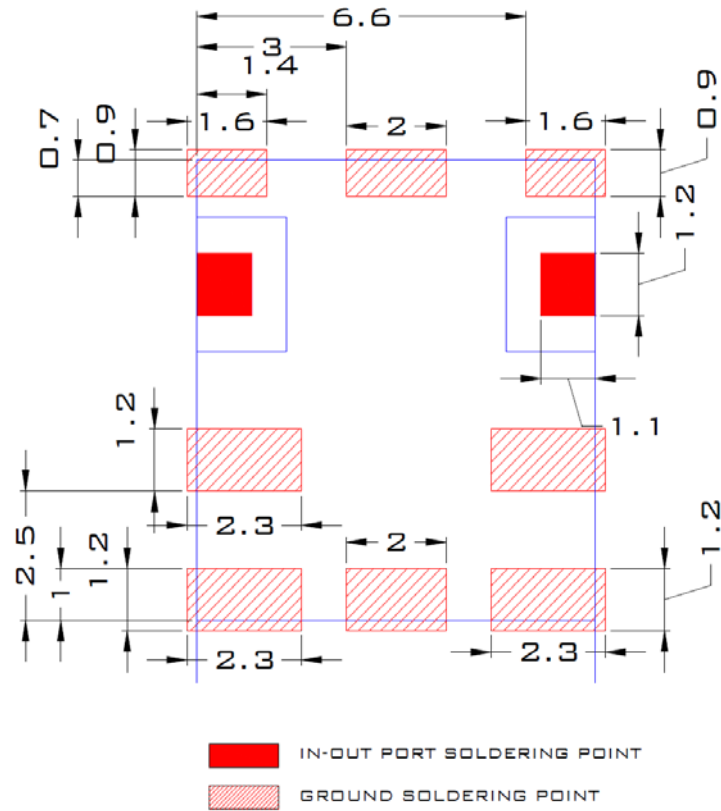
### Electrical Specification

| Parameter                    | Specification                 | Unit |
|------------------------------|-------------------------------|------|
| Center Frequency             | 2145                          | MHz  |
| Bandwidth (BW)               | $F_0 \pm 35 [2110 \sim 2180]$ | MHz  |
| Insertion Loss in BW         | 2.7 max.                      | dB   |
| Ripple in BW                 | 0.3 max.                      | dB   |
| Return Loss in BW            | 17 min.                       | dB   |
| Attenuation (Absolute Value) | 20 min.@1930~2010 MHz         | dB   |
|                              | 20 min.@2285~2345 MHz         |      |
|                              | 30 min.@2345~3000 MHz         |      |
|                              | 40 min.@DC~1930 MHz           |      |
| Impedance                    | 50                            | ohm  |
| Input Power                  | 1 max.                        | W    |
| Operating Temperature        | -40 to +85                    | °C   |

### Outline Drawing



## Recommended PCB Layout



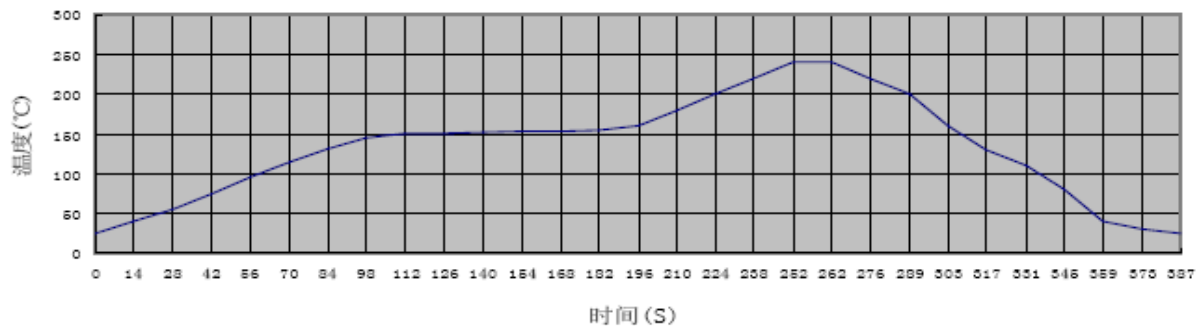
Remarks: Recommend to use silver-containing solder paste

## Application Instructions:

### 1. Recommended Soldering Temperature

#### a. Containing Pb Soldering,

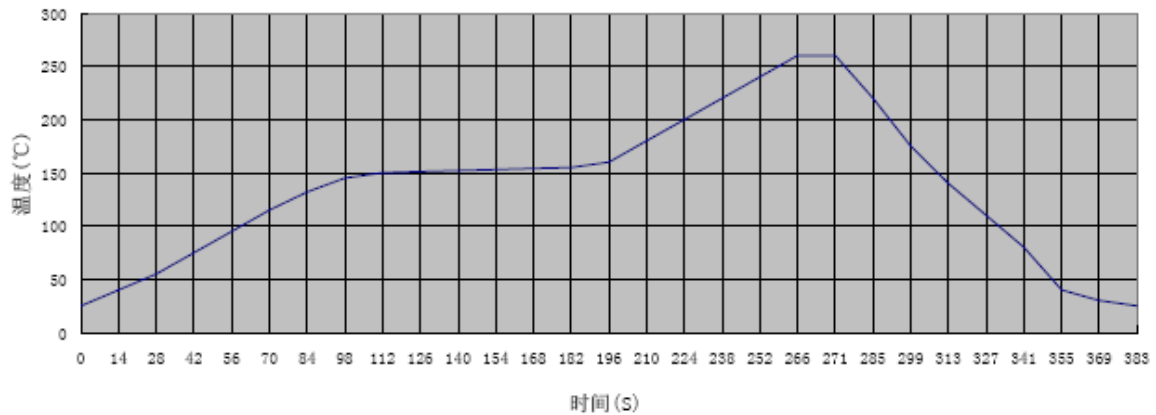
Recommend the solder paste of melting points 183°C, soldering temperature won't exceed 230°C. Refer to the below reflow soldering profile.



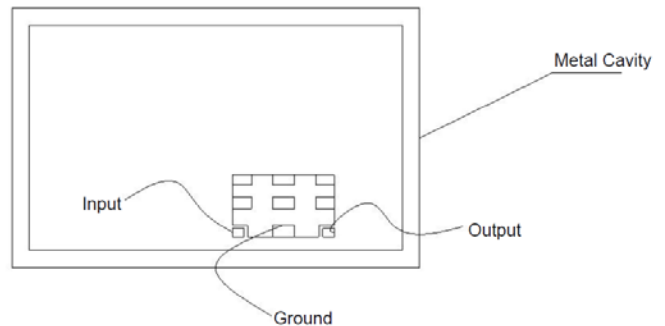
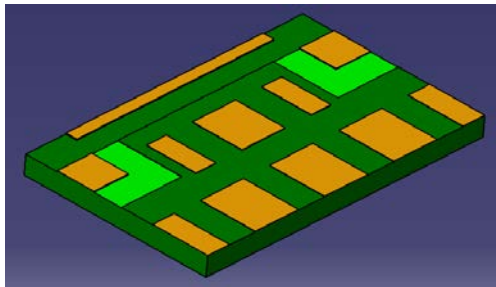
#### b. Pb-free soldering

Recommend the solder paste of melting point 217°C, soldering temperature won't exceed

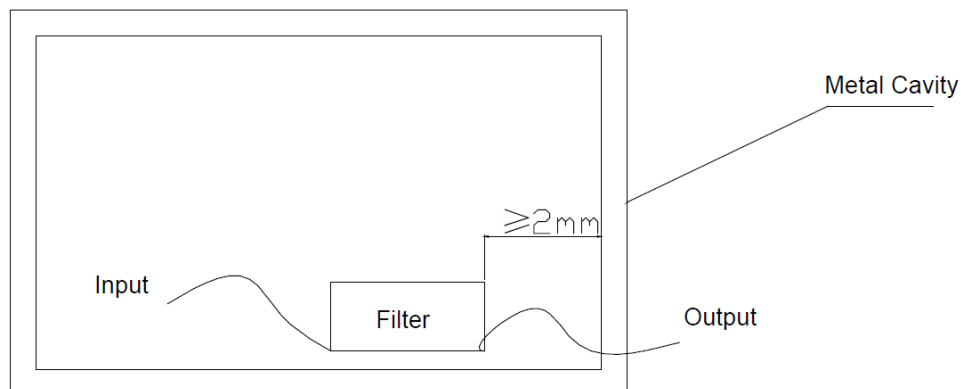
260°C. Refer to the below reflow soldering profile.



- 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.