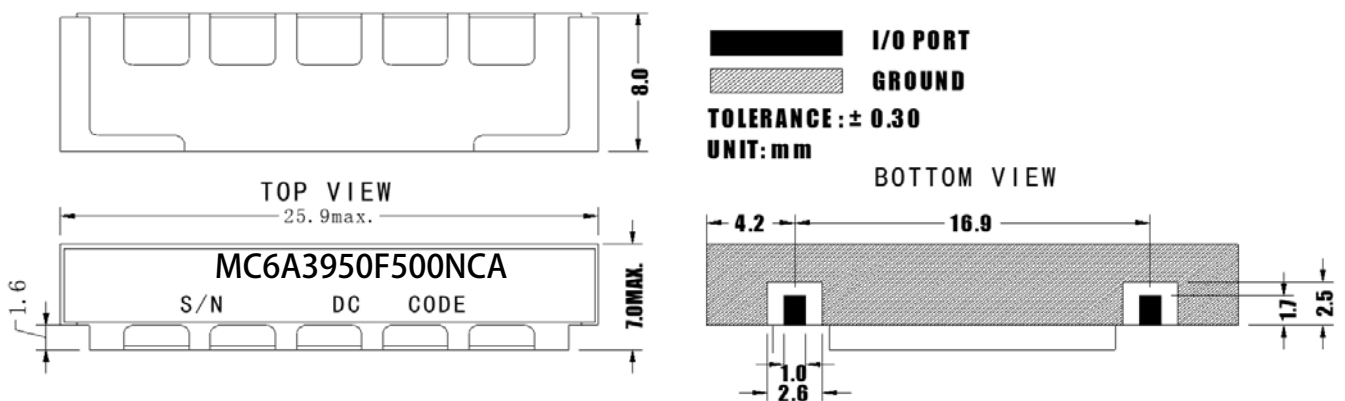


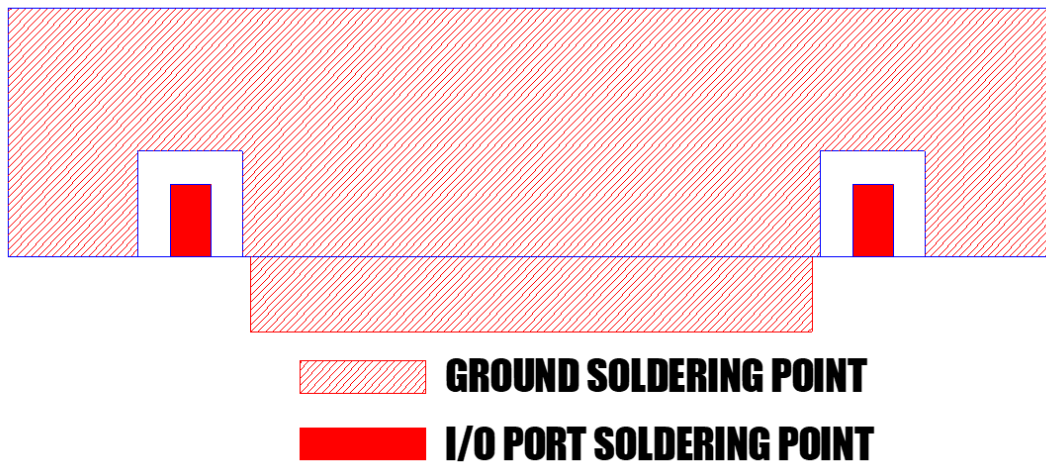
## Electrical Specification

| Parameter                       |                | SPEC@25°C         | SPEC@-40°C~+85°C | Unit |
|---------------------------------|----------------|-------------------|------------------|------|
| Center Frequency                |                | 3950              |                  | MHz  |
| Bandwidth (BW)                  |                | F0±250[3700~4200] |                  | MHz  |
| Insertion Loss in 5MHz avg      |                | 1.5 max.          | 1.7 max.         | dB   |
| Ripple in BW                    |                | 1.0 max.          | 1.2 max.         | dB   |
| Return Loss in BW (S11, S22)    |                | 14 min.           | 14 min.          | dB   |
| Attenuation<br>(Absolute Value) | @1~2700 MHz    | 47 min.           | 47 min.          | dB   |
|                                 | @2700~3500 MHz | 38 min.           | 38 min.          |      |
|                                 | @3500~3600 MHz | 25 min.           | 25 min.          |      |
|                                 | @3600~3660 MHz | 5 min.            | 5 min.           |      |
|                                 | @3660~3680 MHz | 2 min.            | 2 min.           |      |
|                                 | @4220~4240 MHz | 2 min.            | 2 min.           |      |
|                                 | @4240~4300 MHz | 5 min.            | 5 min.           |      |
|                                 | @4300~4400 MHz | 25 min.           | 25 min.          |      |
|                                 | @4400~5590 MHz | 38 min.           | 38 min.          |      |
|                                 | @5950~7000 MHz | 25 min.           | 25 min.          |      |
| Impedance                       |                | 50                |                  | ohm  |
| Average Input Power             |                | 8 max.            |                  | W    |
| Peak Input Power                |                | 80 max.           |                  | W    |
| Operating Temperature           |                | -40 to +85        |                  | °C   |

## Outline Drawing



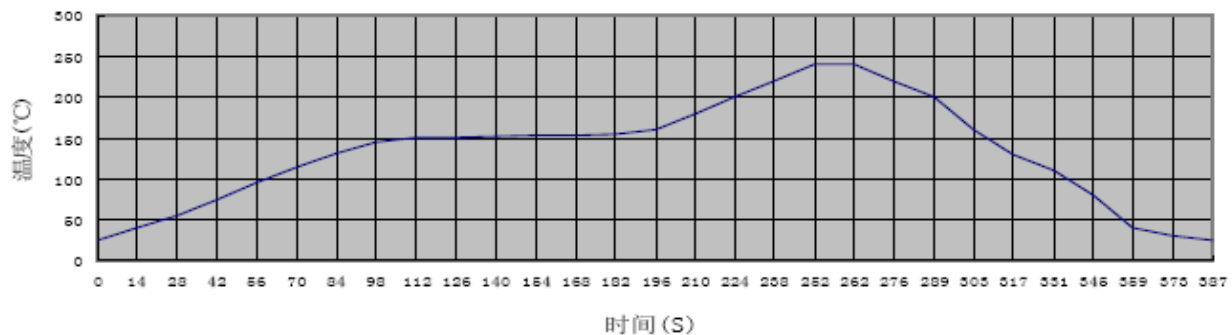
## Recommended PCB Layout



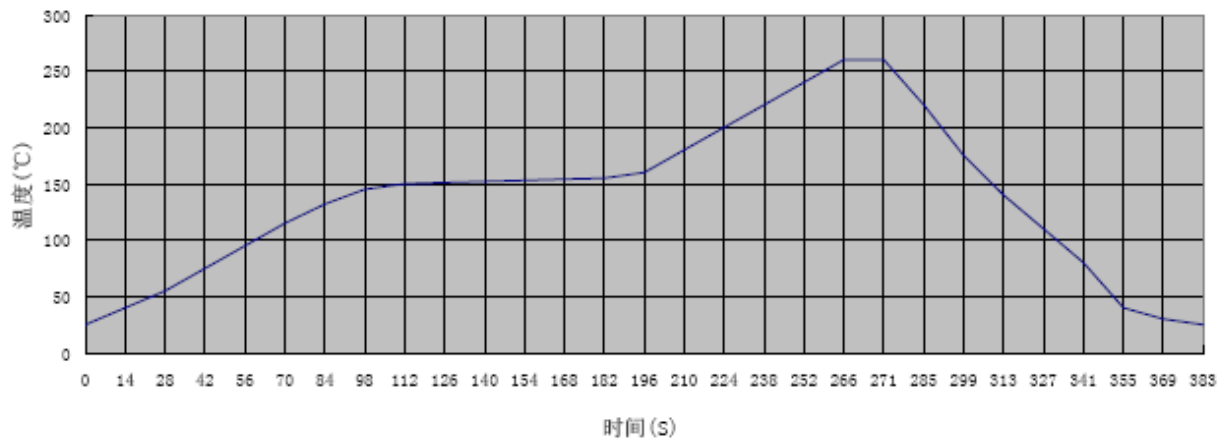
Remarks: Recommend to use silver-containing solder paste

## Application Instructions:

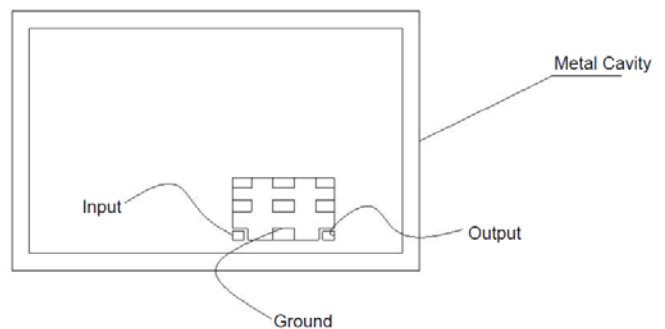
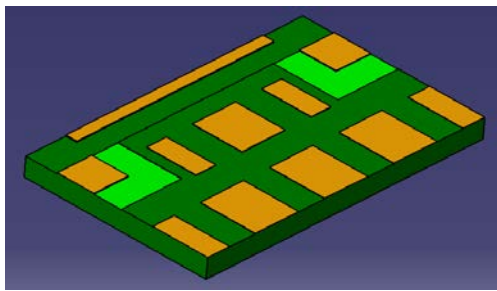
1. Recommended Soldering Temperature
  - a. Containing Pb Soldering,  
Recommend the solder paste of melting points 183°C, soldering temperature won't exceed 230°C. Refer to the below reflow soldering profile.



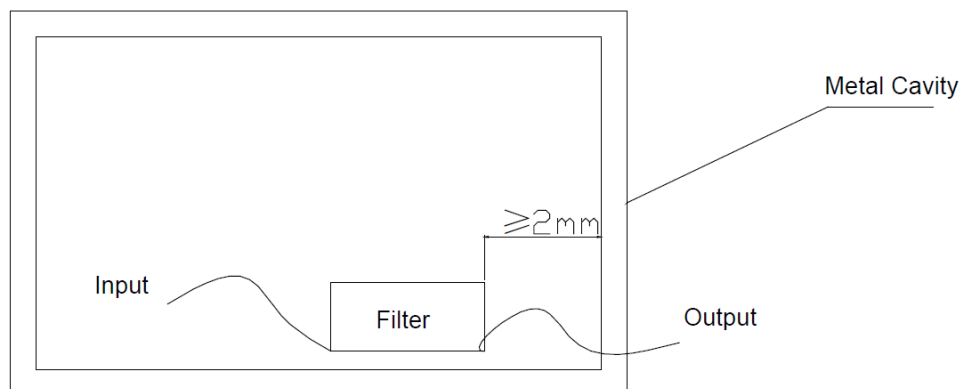
- b. Pb-free soldering  
Recommend the solder paste of melting point 217°C, soldering temperature won't exceed 260°C. Refer to the below reflow soldering profile.



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