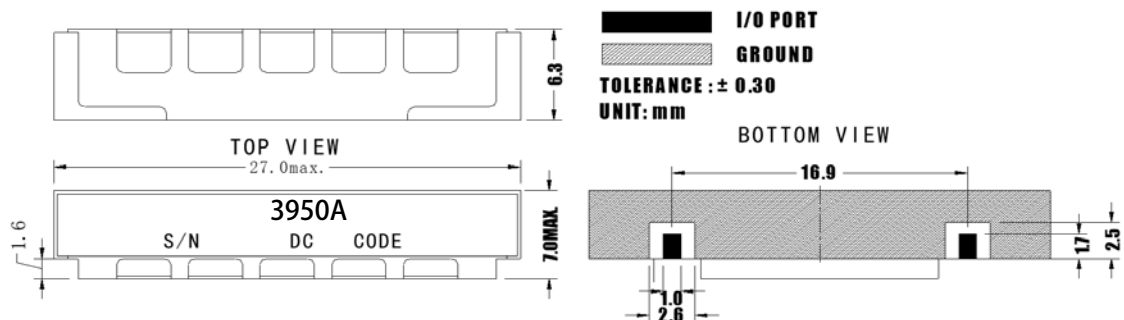


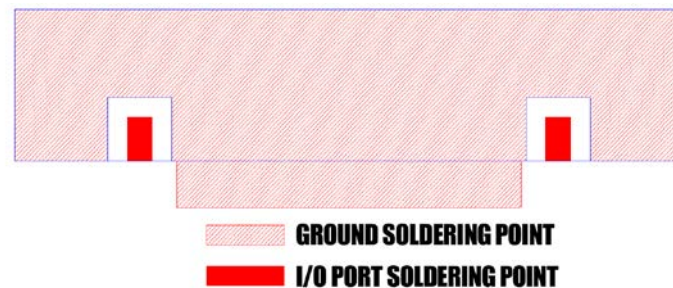
Electrical Specification

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 (Absolute Value)	@1~2700 MHz	47 min.	47 min.	dB
	@2700~3500 MHz	38 min.	38 min.	
	@3500~3600 MHz	30 min.	30 min.	
	@3600~3660 MHz	10 min.	10 min.	
	@3660~3680 MHz	2 min.	2 min.	
	@4220~4240 MHz	2 min.	2 min.	
	@4240~4300 MHz	10 min.	10 min.	
	@4300~4400 MHz	30 min.	30 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



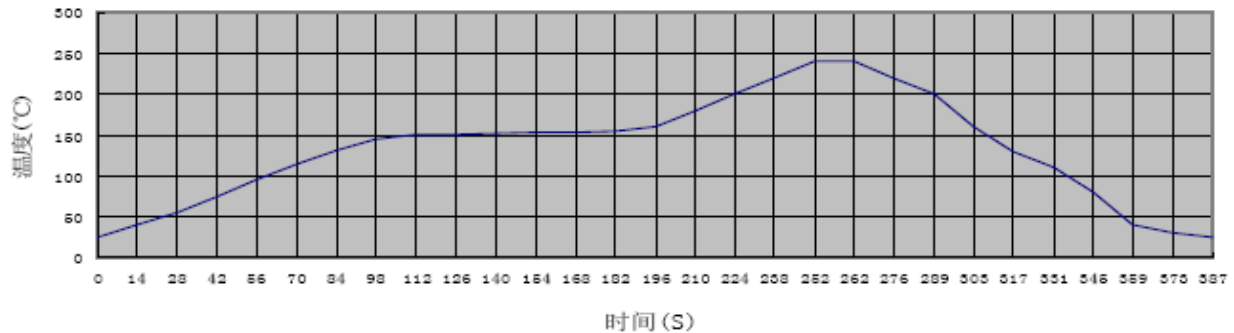
Remarks: Recommend to use silver-containing solder paste

Application Instructions:

1. Recommended Soldering Temperature

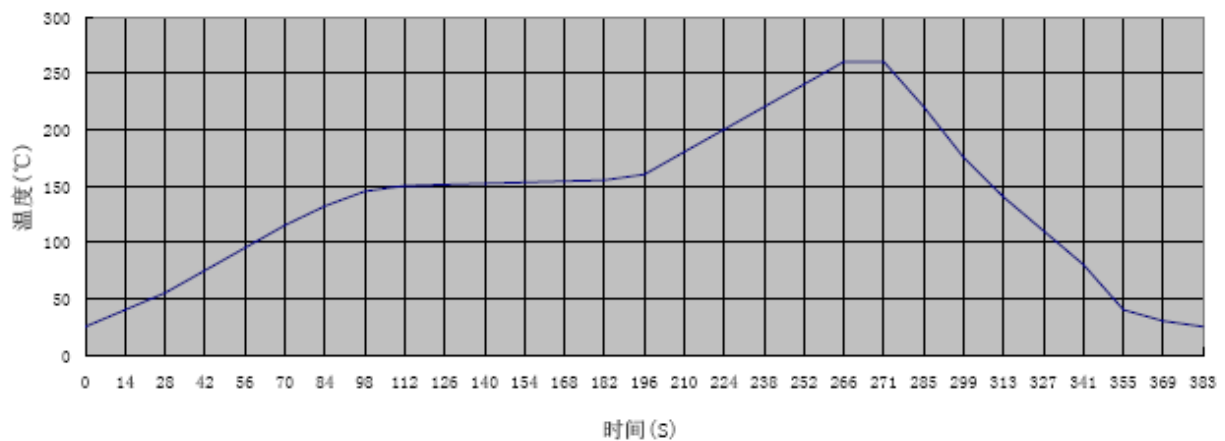
a. Containing Pb Soldering,

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

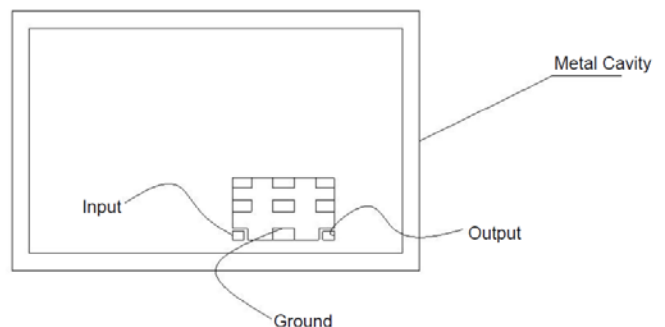
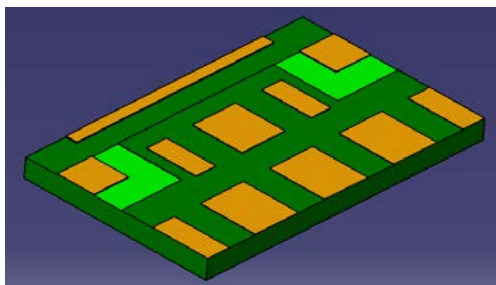


b. Pb-free soldering

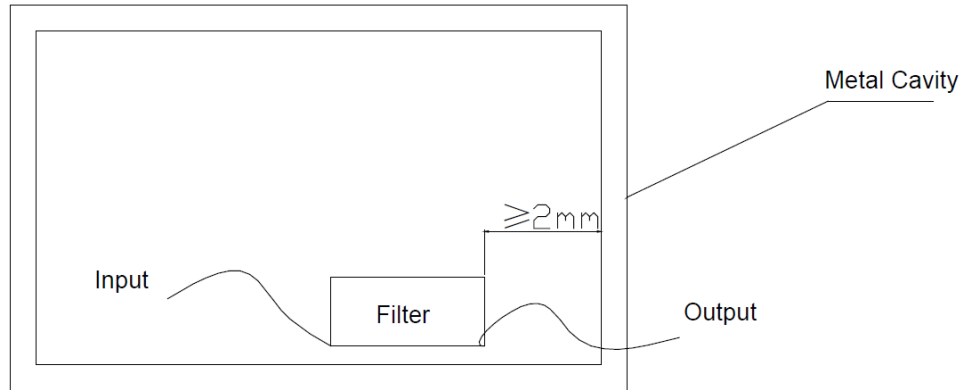
Recommend the solder paste of melting point 217°C, soldering temperature won't exceed 260°C. Refer to the below reflow soldering profile.



- 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.



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.