

Preliminary



CDR9003

PART NUMBER:

ELECTRICAL CHARACTERISTICS:

Operating Temperature Range : -40 to +85°C

Center Frequency : fc= 1090 MHz

Passband Width : 10MHz (1085~1095 MHz)

Input / Output Impedance: 50Ω

Max. Input Power : 1 W

Moisture Sensitivity Level (MSL): 2a

1090 MHz Ceramic Filter

Package Dimensions

11.4 x 7.11 x 4.25

TABLE 1

NO.	ITEM		SPECIFICATION		
			Min	Тур.	Max
1	PASS BAND INSERTION LOSS			2.3 dB	3.0 dB
2	PASS BAND RIPPLE				1.0 dB
3	PASS BAND RETURN LOSS		10 dB	12 dB	
4	STOP—BAND ATTENUATION	1050 MHz	18 dB	23 dB	
		1070 MHz	5 dB	8 dB	
		1110 MHz	5 dB	8 dB	
		1130 MHz	18 dB	23 dB	

Item NO.4 specifies the absolute value of attenuation.

*Data is measured on EVB board

TYPICAL ELECTRICAL CHARACTERISTICS



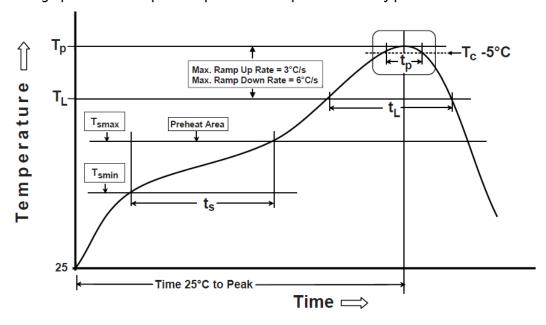
2. Recommended Reflow Soldering Profile

products can be assembled following Pb-free assembly. According to the Standard IPC/ JEDEC J-STD-020C, the temperature profile suggested is as follow:

Phase	Profile features	Pb-Free Assembly (SnAgCu)	
PREHEAT	-Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(ts) form (Tsmin to Tsmax)	150°C 200°C 60-120 seconds	
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second(max)	
REFLOW	-Temperature(TL) -Total Time above TL (t L)	217°C 30-100 seconds	
PEAK	-Temperature(TP) -Time(tp)	260°C 3 second	
RAMP-DOWN	Rate	6° C / second max.	
Time from 25°C	to Peak Temperature	8 minutes max.	
Composition of se	older paste	96.5Sn/3Ag/0.5Cu	
Solder Paste Mod	lel	SHENMAO PF606-P26	

Note: All the temperature measure point is on top surface of the component, if temperature over recommend, it will make component surface peeling or damage.

The graphic shows temperature profile for component assembly process in reflow ovens



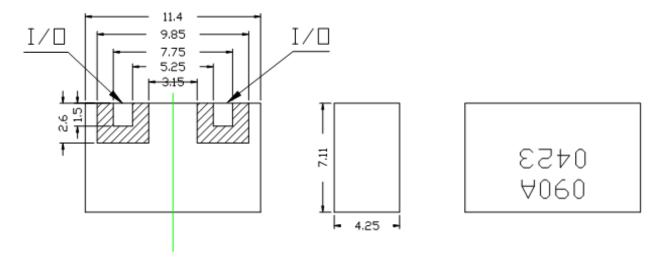
Soldering With Iron:

Soldering condition : Soldering iron temperature 270 \pm 10 $^{\circ}$ C.

Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature $270\pm10^{\circ}\text{C}$ or 3 seconds, it will make component surface peeling or damage. Soldering iron cannot leakage of electricity.

3. DIMENSION AND PCB LAYOUT

3-1 SHAPE AND DIMENSION



Dimensions in mm

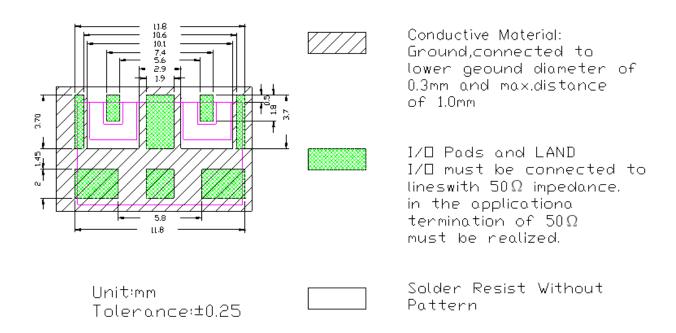
Tolerance:±0.3

090A: product name(J1090A)

04 : month

23 : year(2023)

3-2 PCB RECOMMENDED LAND PATTERN





- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.