



CDR2009

4700 MHz

Ceramic Filter

Package Dimensions

15.9 x 4.5 x 4.4 mm

ELECTRICAL CHARACTERISTICS:

This filter satisfies Table 1 at Temperature Range: -40 to

+85°C CENTER FREQUENCY :fo=4700 MHz

PASSBAND WIDTH :4600~4800 MHz

INPUT/OUTPUT IMPEDANCE :50 Ω

Max. INPUT POWER : 10 W

Moisture Sensitivity Level: 2A

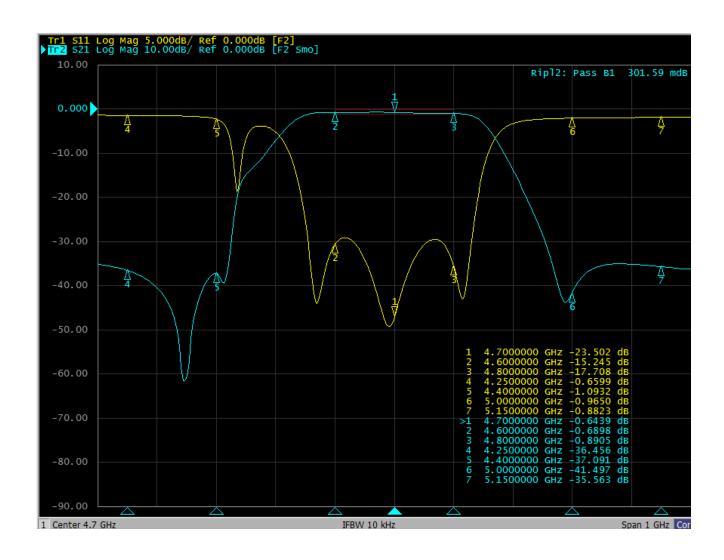
TABLE 1

NO.	ITEM		SPECIFICATION	
			Min	Max
1	PASS BAND INSERTION LOSS			1.5 dB
2	PASS BAND RIPPLE			1.0 dB
3	PASS BAND RETURN LOSS		10 dB	
4	STOP—BAND ATTENUATION	at 4250~4400 MHz	30 dB	
		at 5000~5150 MHz	30 dB	

Item NO.4 specifies the absolute value of attenuation.

***Data** is measured on the manufacturer's EVB board

TYPICAL ELECTRICAL CHARACTERISTICS



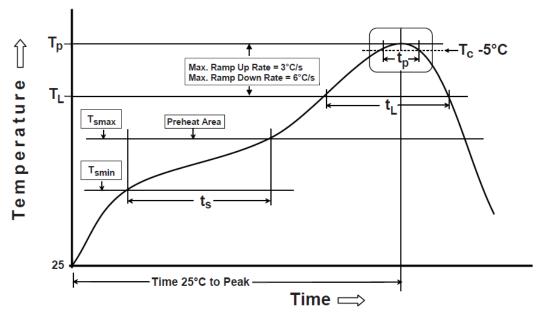
2. Recommended Reflow Soldering Profile

The 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)	
	-Temperature Min(Tsmin)	150°C	
PREHEAT	-Temperature Max(Tsmax)	200°C	
	-Time(ts) form (Tsmin to Tsmax)	60-120 seconds	
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second(max)	
DEEL OW	-Temperature(TL)	217°C	
REFLOW	-Total Time above TL (t L)	30-100 seconds	
PEAK	-Temperature(TP)	260°C	
FEAK	-Time(tp)	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



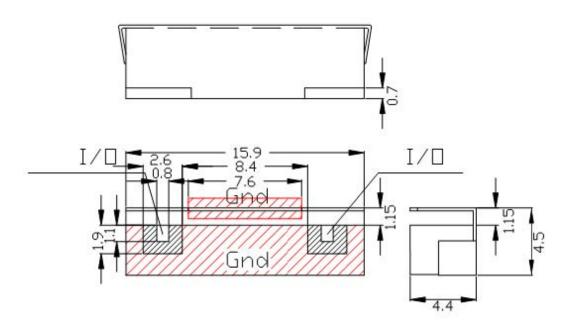
Soldering With Iron:

Soldering condition: Soldering iron temperature 270±10 °C.

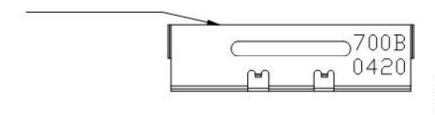
Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature 270±10 °C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.

3.DIMENSION AND PCB LAYOUT

3-1 SHAPE AND DIMENSION



Case Material: Copper Nickel Alloy



Unit:mm Tolerance:±0.3 I/O: Input / Output Gnd:Ground

C: Company Code 700B: product name(J4700B) 0420: month/year(04/2020) Color: Black

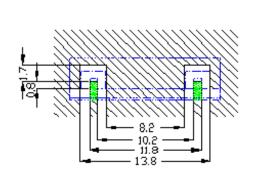
3-2 PCB RECOMMENDED PATTERN FOR FILTER

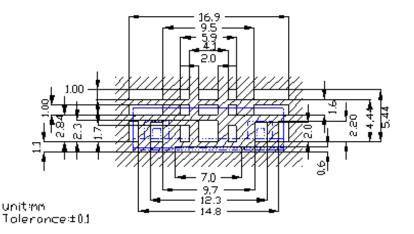
Note: Test PCB material: FR4 4.6, 1.0mm.

The filter use limit: the layout goes away PCB edge.



Solder resist Potten





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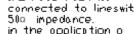
Conductive Material: Ground.connected to lower geound diometer of 0.3mm and max.distance of3.0mm.



covered with solder



1/0 Pods must be connected to lineswith 500 impedance. in the opplication o termination of 50° must be realized.





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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.