

RFM Integrated Device, Inc.

PRODUCT SPECIFICATION

Part Number: CDR2009

DR Filter, Sub 6G/ 5th G, 4700 MHz, BW 200, IL 1.5



ELECTRICAL CHARACTERISTICS:

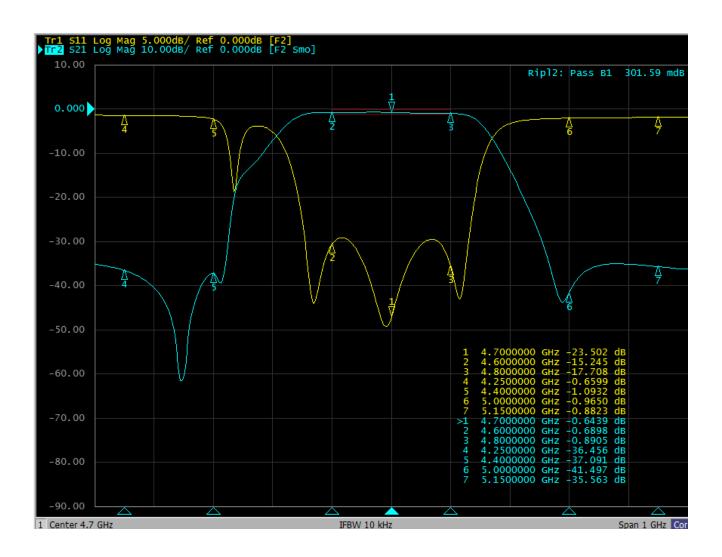
This filter satisfies Table 1 at Temperature Range : -40 to +85°C CENTER FREQUENCY :fo=4700 MHz PASSBAND WIDTH :4600~4800 MHz NPUT/OUTPUT IMPEDANCE :50Ω Max. INPUT POWER : 10 W Moisture Sensitivity Level: MSL2a

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		
4		at 5000~5150 MHz	30 dB		
Item NO.4 specifies the absolute value of attenuation.					

TABLE 1

%Data is measured on the manufacturer's EVB board

TYPICAL ELECTRICAL CHARACTERISTICS



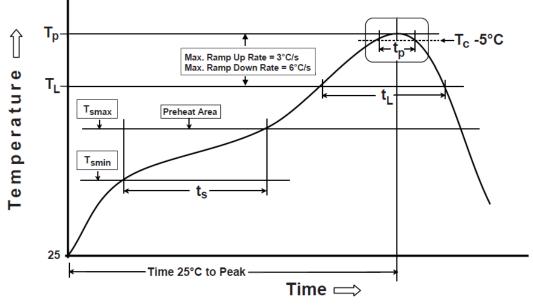
2. Recommended Reflow Soldering Profile

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)	
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 s	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

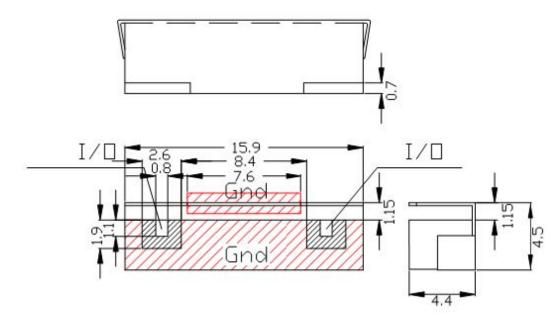


Soldering With Iron:

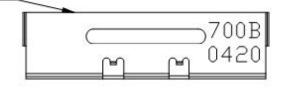
Soldering condition : Soldering iron temperature 270±10 °C.

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



Case Material: Copper Nickel Alloy



Unit:mm Tolerance:±0.3 I/D: Input / Dutput 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.

