

## RFM Integrated Device, Inc.

# PRODUCT SPECIFICATION

Part Number: CDR2008

DR Filter, Sub 6G/ 5th G, 3570 MHz, BW 100, IL 1.5 ELECTRICAL CHARACTERISTICS: This filter satisfies Table 1 at Temperature Range : -40 to +85°C CENTER FREQUENCY :fo=3750 MHz PASSBAND WIDTH :3700~3800 MHz INPUT/OUTPUT IMPEDANCE :50Ω Max. INPUT POWER : 10 W

#### Moisture Sensitivity Level: MSL2a

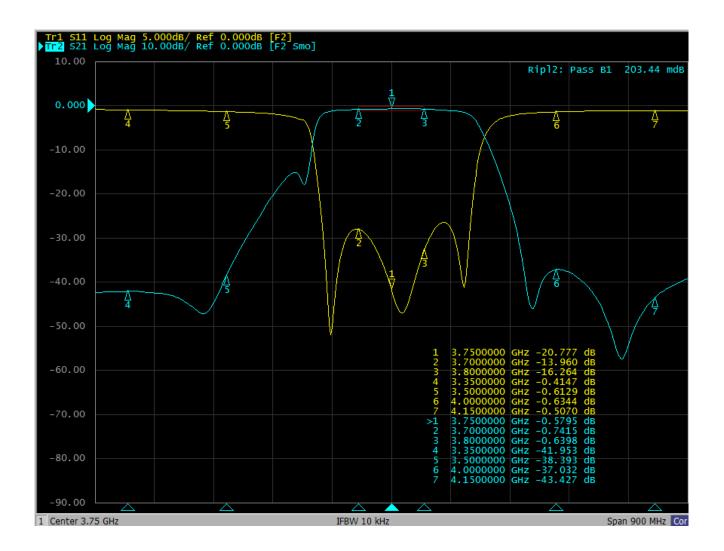
NO.	ITEM		SPECIFICATION		
			Min	Max	
1	PASS BAND INSERTION LOSS			1.5 dB	
2	PASS BAND RIPPLE			1.0 dB	
3	PASS BAND RETURN LOSS		10 dB		
4	STOP—BAND ATTENUATION	at 3350~3500 MHz	30 dB		
4		at 4000~4150 MHz	30 dB		
Item NO.4 specifies the absolute value of attenuation.					

### TABLE 1

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



### **TYPICAL ELECTRICAL CHARACTERISTICS**



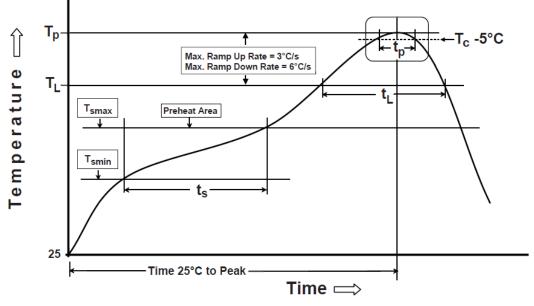
## 2. Recommended Reflow Soldering Profile

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 se	older paste	96.5Sn/3Ag/0.5Cu	
Solder Paste Mod	el	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



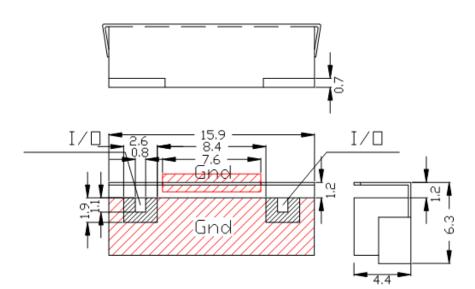
### Soldering With Iron:

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

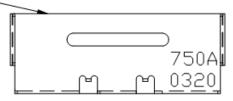
Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature  $270\pm10$  °C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.

### **3.DIMENSION AND PCB LAYOUT**

### **3-1 SHAPE AND DIMENSION**



Case Material: Copper Nickel Alloy



Unit:mm Tolerance:±0.3 I/D: Input / Dutput Gnd:Ground

C: Company Code 750A: product name(J3750A) 0320: month/year(03/2020) 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.

