

RFM Integrated Device, Inc.

PRODUCT SPECIFICATION

Part Number: CDR2001

DR Filter, Sub 6G/ 5th G, 3450 MHz, BW 300, IL 2

Halogen Free RoHS Compliant Product

ELECTRICAL CHARACTERISTICS:

This filter satisfies Table 1 at Temperature Range : -40 to $+85^{\circ}\text{C}$

CENTER FREQUENCY :fo=3450 MHz

PASSBAND WIDTH : 3300~3600 MHz

INPUT/OUTPUT IMPEDANCE :50 Ω

Max. INPUT POWER : 10 W

Moisture Sensitivity Level: MSL2a

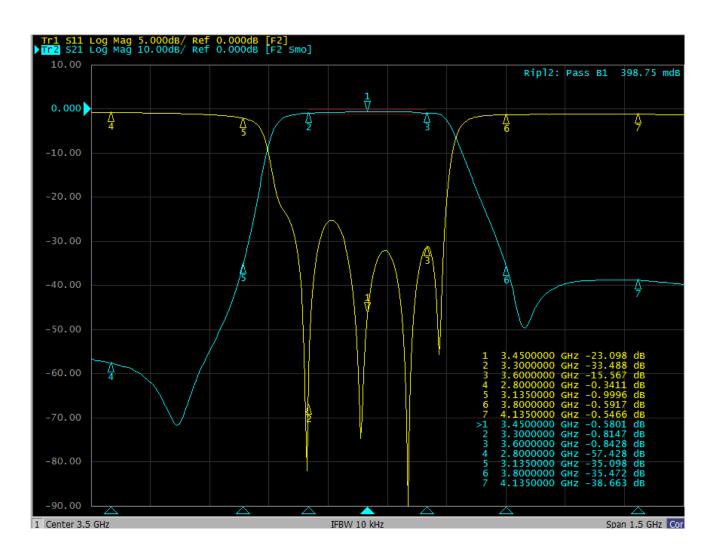
TABLE 1

NO.	ITEM		SPECIFICATION			
			Min	Тур	Max	
1	PASS BAND INSERTION LOSS			1.5 dB	2.0 dB	
2	PASS BAND RIPPLE			0.6 dB	1.0 dB	
3	PASS BAND RETURN LOSS		10 dB			
4	STOP—BAND	2800 ~ 3135 MHz	30 dB			
	ATTENUATION	3800 ~ 4135 MHz	30 dB			
Item NO.4 specifies the absolute value of attenuation.						

Trem 1.0.1 specifies the describe value of differentiation.

XData is measured on the manufacturer's EVB board

TYPICAL ELECTRICAL CHARACTERISTICS

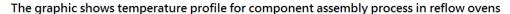


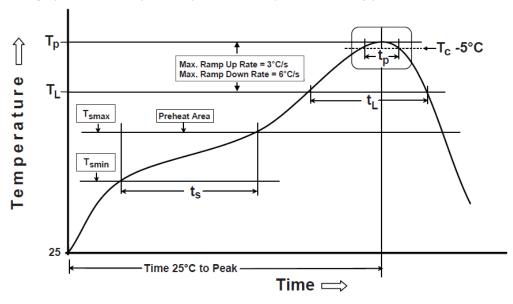
2. Recommended Reflow Soldering Profile

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 1	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.





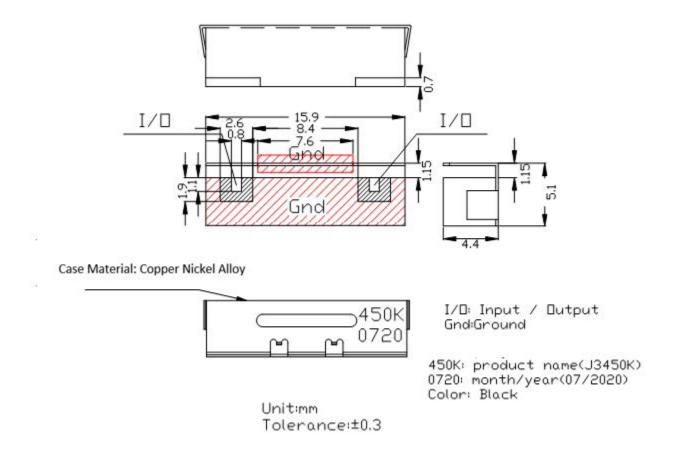
Soldering With Iron:

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



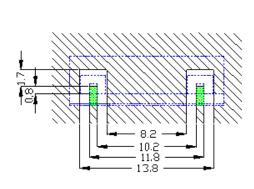
3-2 PCB RECOMMENDED PATTERN FOR FILTER

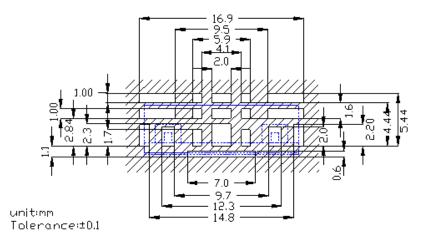
Note: Test PCB material: FR4 4.6, 1.0mm.

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

3-2-1 Conductive Material Patten

3-2-2 Solder resist Patten





Conductive Material Ground, connected to lower geound diameter of 0.3mm and max.distance of 3.0mm.



covered with solder nesist.



1/D Pods must be connected to lineswith 50Ω inpedance. in the application a termination of $50\,\Omega$ must be realized.