



This filter satisfies Table 1 at Temperature Range : -40 to +85°C

CENTER FREQUENCY :fo=3450 MHz

PASSBAND WIDTH : 3400~3500 MHz

INPUT/OUTPUT IMPEDANCE :50 $\Omega$ 

Max. INPUT POWER : 10 W

Moisture Sensitivity Level: 2a

TABLE 1

NO	ITEM		SPECIFICATION			
NO.			Min	Тур	Max	
1	PASS BAND INSERTION LOSS			1.6 dB	2.0 dB	
2	PASS BAND RIPPLE			0.6 dB	1.0 dB	
3	PASS BAND RETURN LOSS		10 dB			
4	STOP—BAND	3000 ~ 3250 MHz	35 dB			
	ATTENUATION	3650 ~ 4100 MHz	30 dB			
Item NO.4 specifies the absolute value of attenuation.						

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



# CDR2002

**RoHS** compliant

3450MHz

**Ceramic Filter** 

Package Dimensions

15.8 x 4.8 x 4.4 mm

#### Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F2 D&M] Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F2 D&M Smo] 10.00 Ripl2: Pass B1 433.67 mdB 1 0.000 4 八 2 45 -20.00 -30.00 -40.00 Ľ 4 -50.00 -60.00 6 7 dB dB dB dB dB dB dB dB dB -0 4.1000000 GHZ -0.5056 3.4500000 GHZ -0.8088 3.4000000 GHZ -1.2346 3.5000000 GHZ -0.7812 3.0000000 GHZ -43.143 3.2500000 GHZ -41.966 3.6500000 GHZ -38.474 4.1000000 GHZ -37.241 >1 234567 -80.00 -90.00 1 Center 3.5 GHz IFBW 10 kHz Span 1.5 GHz Cor

### TYPICAL ELECTRICAL CHARACTERISTICS

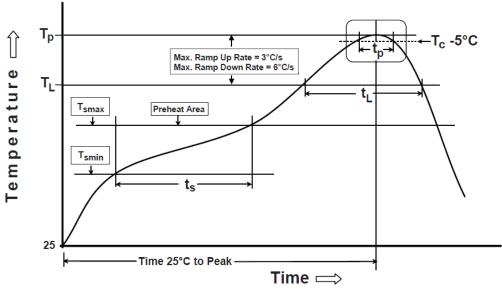
### 2. Recommended Reflow Soldering Profile

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) -Time(ts) form (Tsmin to Tsmax)	200°C 60-120 seconds	
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second(max)	
REFLOW	-Temperature(TL)	217°C	
KEFLO W	-Total Time above TL (t L)	30-100 seconds	
РЕАК	-Temperature(TP)	260°C	
TLAK	-Time(tp)	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	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.





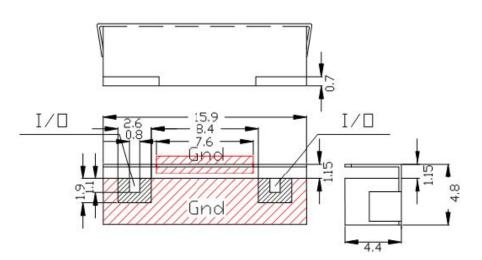
### Soldering With Iron:

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

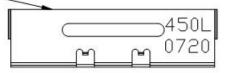
Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature 270±10 °C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.

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

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



Case Material: Copper Nickel Alloy



I∕⊡: Input / ⊡utput Gnd:Ground

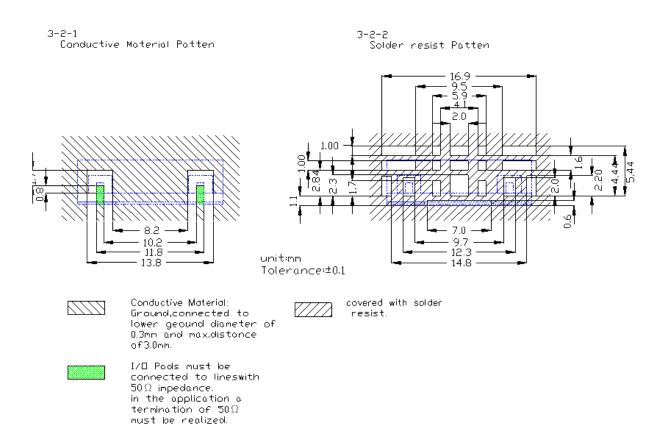
450L: product name(J3450L) 0720: month/year(07/2020) Color: Black

Unit:mm Tolerance:±0.3

#### **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.



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.