

承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer : _____

货 名 Description : _____ 表面声波过滤器 (SAW Filter) _____

客户料号 Part No: _____

物料编号 Code No: _____ B30D33922005CT (SF4086) _____

频 率 Frequency : _____ 433.92MHZ _____

日 期 Date: _____ 2023 年 03 月 21 日 _____

备 注 Note: _____ 200.0KHz Bandwidth) _____

制作(Prepare by)	检查(Check by)	批准 (Approve by)
江丹娜	甘瑛	邓 攀

客户批准 Approve by customer	
批准日期 Approval date	

Add: 广东省深圳市华发北路桑达工业区桑达雅苑 7P

7 P Sangda Yayuan Huafa North Road, Futian District, Shenzhen, Guangdong

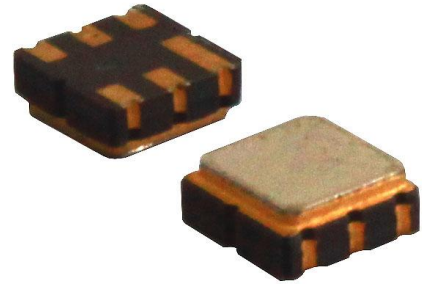
Tel: 86-755-83048260

86-755-83048290

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Application

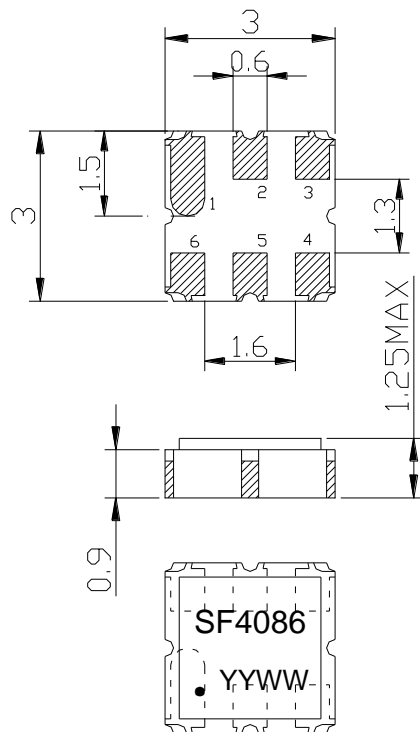
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 200.0 KHz



Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 3.00x3.00x1.25mm³
- Package Code DCC6C
- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



Pin Configuration

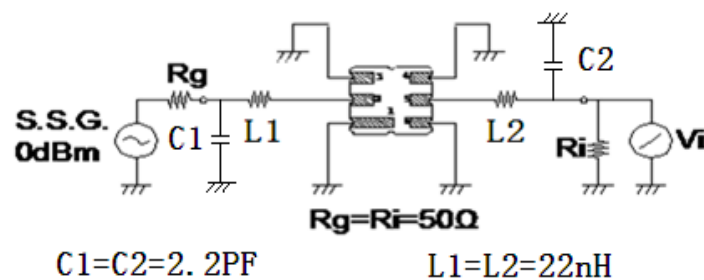
Pin No.	Description
2	Input
5	Output
1,3,4,6	Ground

Marking Description

S	Trademark
F	SAW Filter
4086	Part Number
●	Pin 1
* YYWW	Year Code & Week Code

*Fig: If the products produced in 06th week of 2012,
The year code & week code is 1206.
This item is optional.

Test Circuit (Bottom View)



Performance**Maximum Rating**

Item		Value	Unit
DC Voltage	V_{DC}	5	V
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
RF Power Dissipation	P	20	dBm

Electronic Characteristics

Test Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

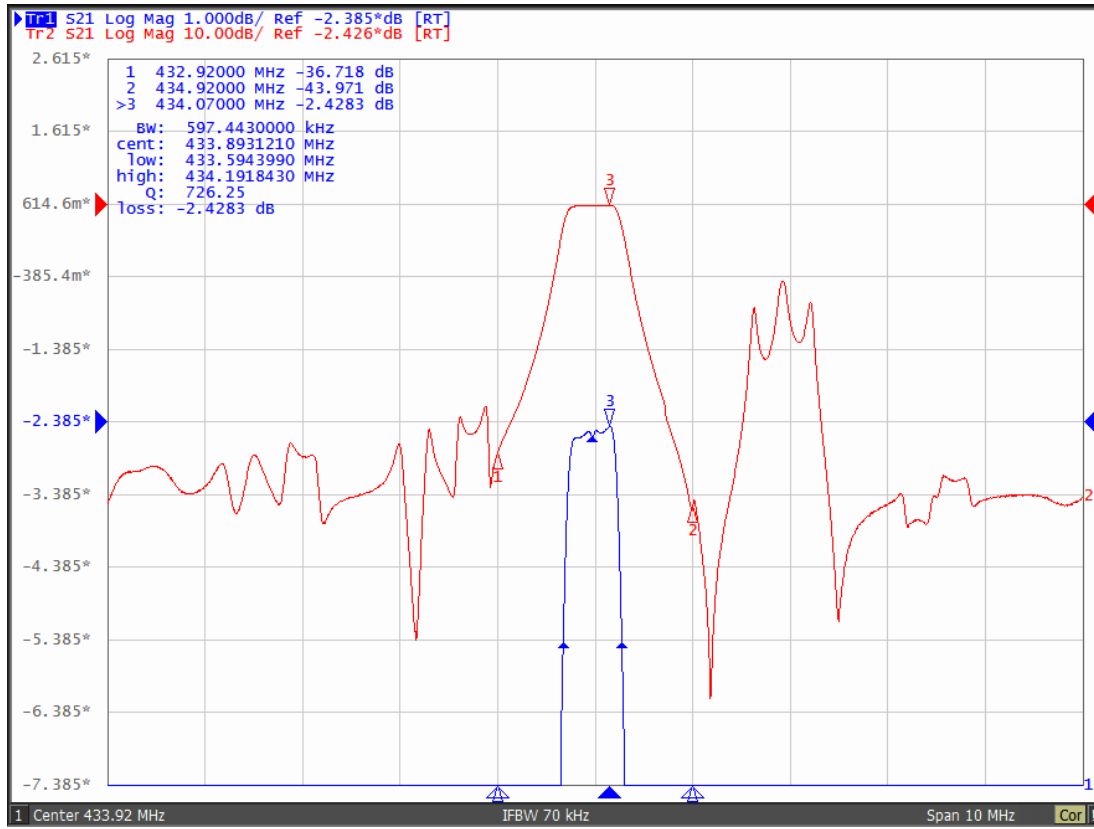
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

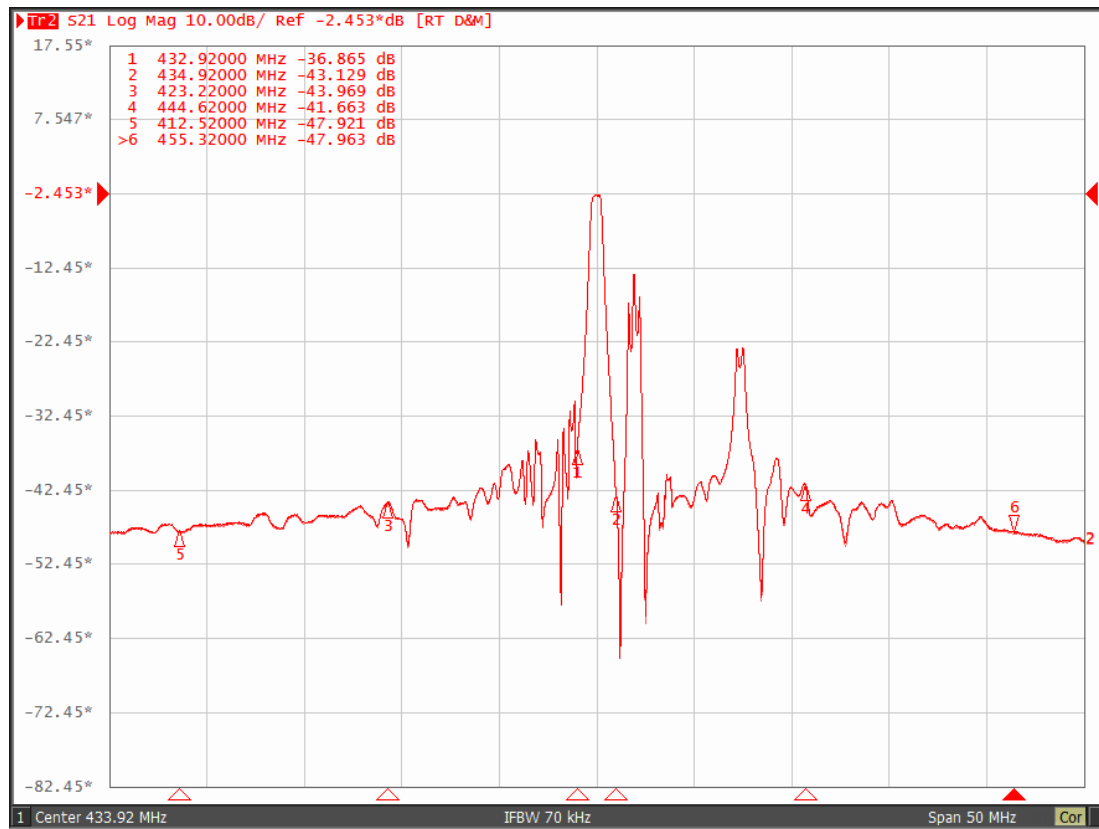
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		433.92		MHz
Insertion Loss(min)	IL		2.5	4.0	dB
Amplitude Ripple (p-p)	$\Delta\alpha$		0.6	1.0	dB
3 dB Bandwidth	BW_{3dB}		0.6	0.65	MHz
Absolute Attenuation	α				
	$F0 \pm 1.00 \text{ MHz}$	10.0	35.0		dB
	$F0 \pm 10.70 \text{ MHz}$	30.0	38.0		dB
	$F0 \pm 21.40 \text{ MHz}$	40.0	45.0		dB
Input VSWR			1.8:1	2.0:1	/
Output VSWR			1.8:1	2.0:1	/

Frequency Characteristics

Frequency Response



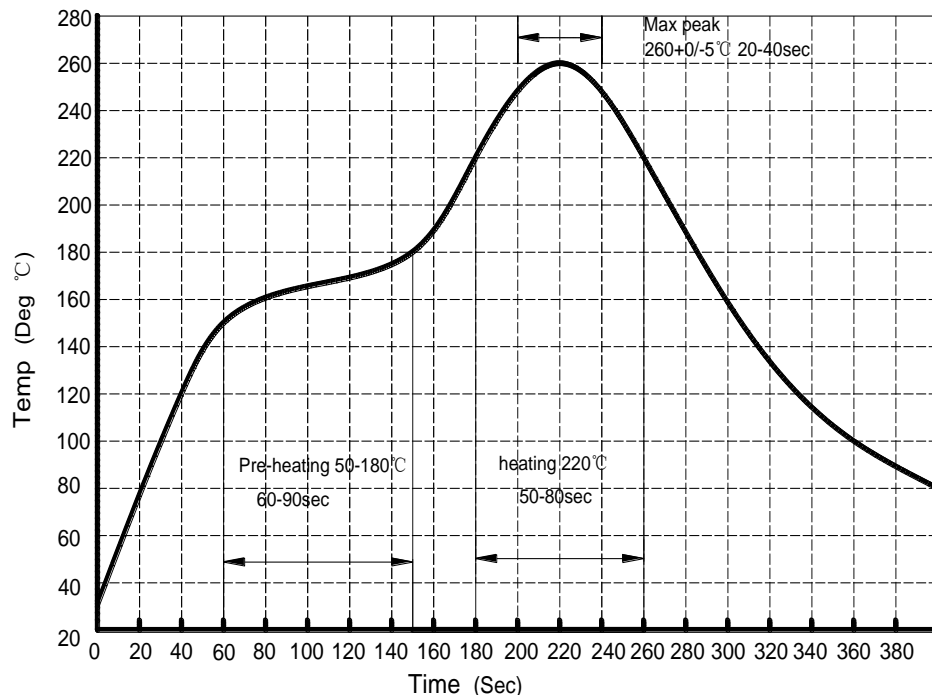
Frequency Response (wideband)



Reliability (The SAW components shall remain electrical performance after tests)

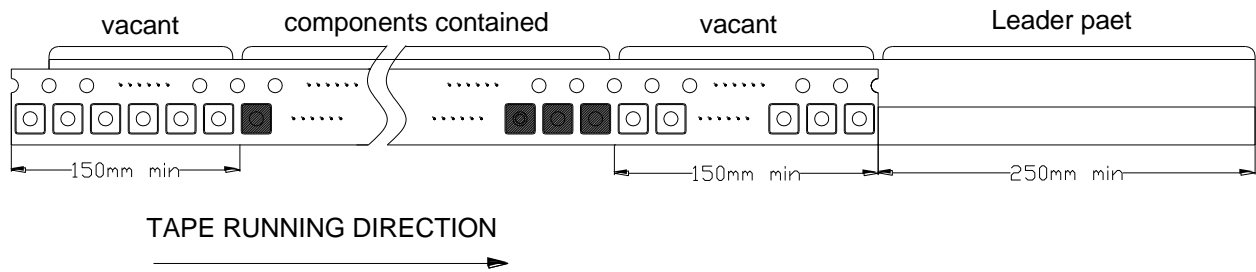
No.	Test item	Test condition
1	Temperature Storage	(1) Temperature: $85^{\circ}\text{C}\pm 2^{\circ}\text{C}$, Duration: 250h , Recovery time: $2\text{h}\pm 0.5\text{h}$ (2) Temperature: $-55^{\circ}\text{C}\pm 3^{\circ}\text{C}$, Duration: 250h ,Recovery time: $2\text{h}\pm 0.5\text{h}$
2	Humidity Test	Conditions: $60^{\circ}\text{C}\pm 2^{\circ}\text{C}$, 90~95% RH Duration: 250h
3	Thermal Shock	Heat cycle conditions: $T_A=-55^{\circ}\text{C}\pm 3^{\circ}\text{C}$, $T_B=85^{\circ}\text{C}\pm 2^{\circ}\text{C}$, $t_1=t_2=30\text{min}$, Switch time: $\leq 3\text{min}$, Cycle time: 100 times, Recovery time: $2\text{h}\pm 0.5\text{h}$.
4	Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm Directions: X,Y and Z Duration: 2h
5	Drop Test	Cycle time: 10 times Height: 1.0m
6	Solder Ability Test	Temperature: $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Duration: 3.0s--5.0s Depth: DIP--2/3 , SMD--1/5
7	Resistance to Soldering Heat	(1) Thickness of PCB:1mm , Solder condition: $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$, Duration: $10\pm 1\text{s}$ (2) Temperature of Soldering Iron: $350^{\circ}\text{C}\pm 10^{\circ}\text{C}$, Duration: 3~4s, Recovery time : $2 \pm 0.5\text{h}$

Recommended Reflow Soldering Diagram



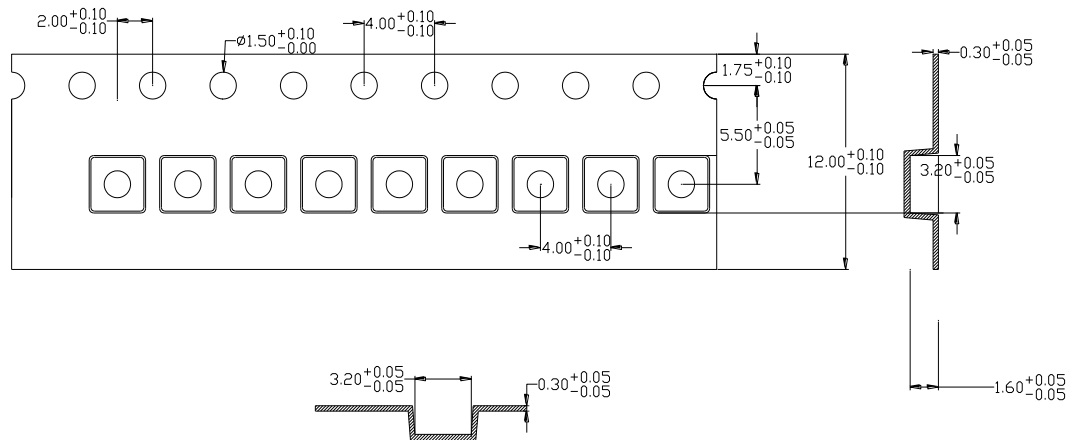
Packing Information

Carrier Tape



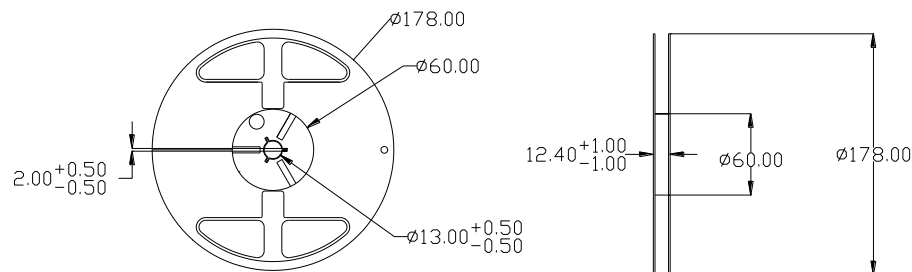
Reel Dimensions

Unit: mm



Outer Packing

Unit: mm



Notes

1. As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to **ESD protect** in the test.
2. **Static voltage** between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
3. **Ultrasonic cleaning** may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
4. Only leads of component may **be soldered**. Please avoid soldering another part of component.
5. There is a close relationship between the device's performance and **matching network**. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.

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