ZXSF®

APPROVAL SHEET

Approval Specification	Customer's Approval Certificate
TO: **Part No.:** **Customer's Part No.:**	Please return this copy as a certification of your approval **Checked & Approved by:** **Date:**

BEIJING ZHONGXUN SIFANG SCIENCE & TECHNOLOGY CO.,LTD.

RoHS compliance **Pb** Pb free

Part No.	:	SF3626
Pages	:	6
Date	:	2017/3/31
Revision	:	1.0

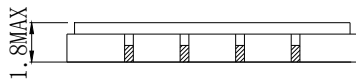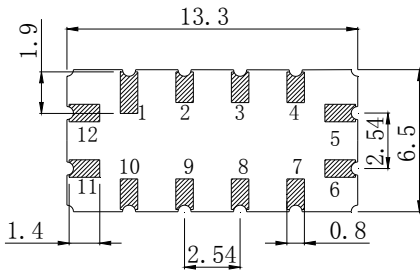| **Prepared by:**	王招林
Checked by:	张伟
Approved by:	蒋燕卷

Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 4.68 MHz
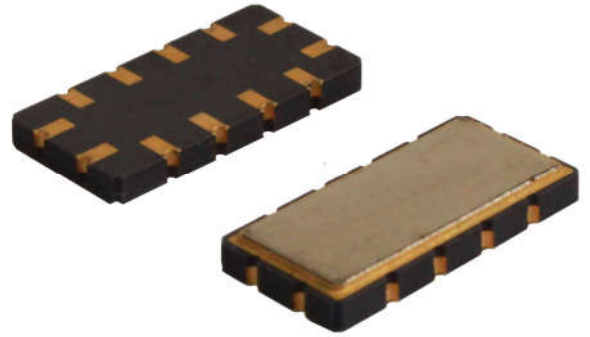
Features

- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)
- **RoHS** compatible
- Package size 13.30x6.50x1.80mm^3
- Package Code QCC12
- **E**lectrostatic **S**ensitive **D**evice(**ESD)**
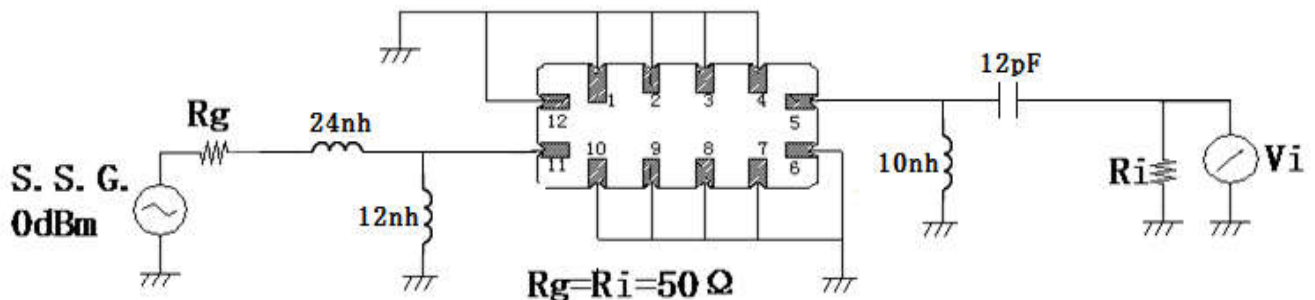
Package Dimensions (Unit: mm)

Pin Configuration

Pin No.	Description
11	Input
5	Output
1,2,3,4,7,8,9,10	Case Ground
6,12	To be Grounded

Marking Description

SF	SF	Trademark
	F	SAW Filter
3626	Part Number	
●	Pin 1	
YYWW	Year Code & Week Code	

*Fig：If the products produced in 06th week of 2015, The year code & week code is 1506.

Test Circuit（**Bottom View**）

Performance

Maximum Rating

Item		Value	Unit
DC Voltage	V_{DC}	3	V
Operation Temperature	T	-45 ~ +85	℃
Storage Temperature	T_{stg}	-55 ~ +125	℃
RF Power Dissipation	P	15	dBm

Electronic Characteristics

Test Temperature: 25℃±2℃

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

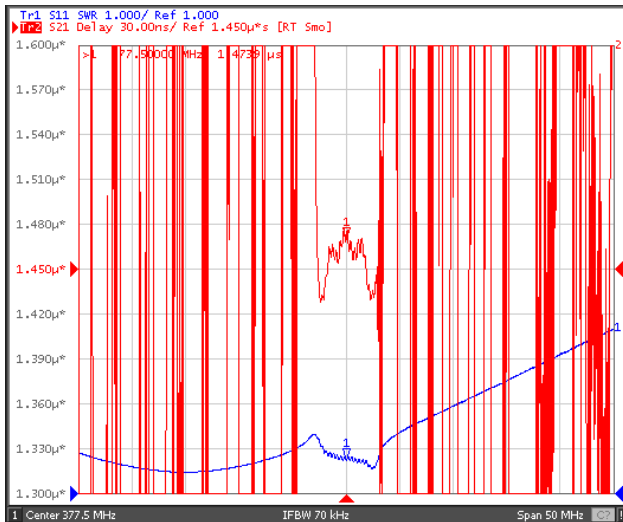| Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		377.5		MHz
Insertion Loss(min)	IL		18.3	27.0	dB
3 dB Bandwidth	BW_{3dB}	4.68	4.85		MHz
Amplitude Ripple (p-p)	△α		0.8	1.0	dB
Absolute Attenuation	α				
Fc±3.0MHz		10.0	15.0		dB
Fc±3.3MHz		30.0	35.0		dB
Input / Output VSWR			2.5	3.0	/

Frequency Characteristics
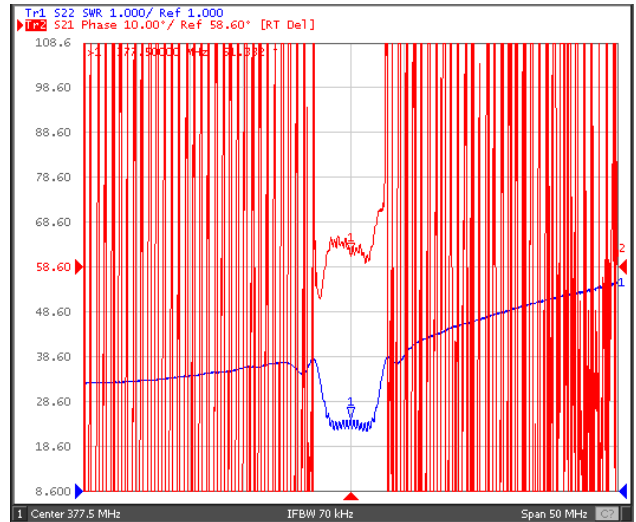
Frequency Response
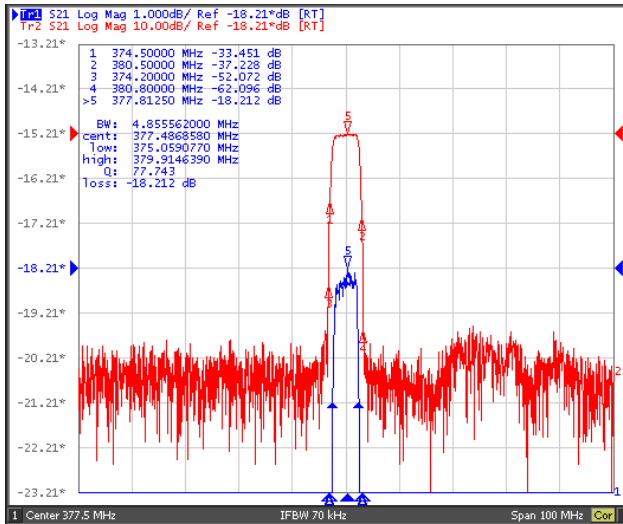
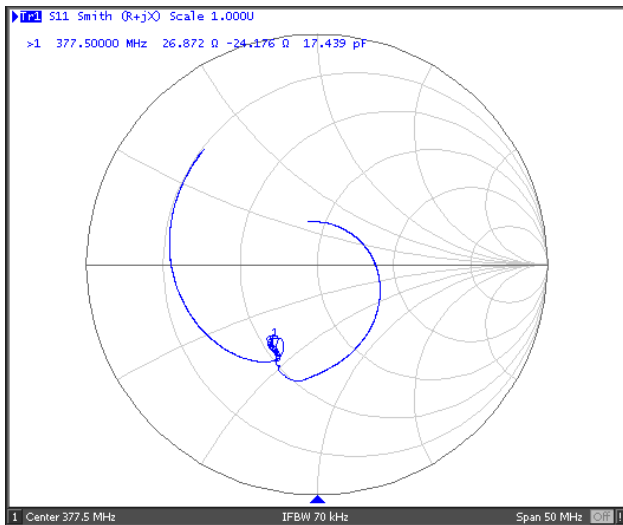### Frequency Response（wideband）
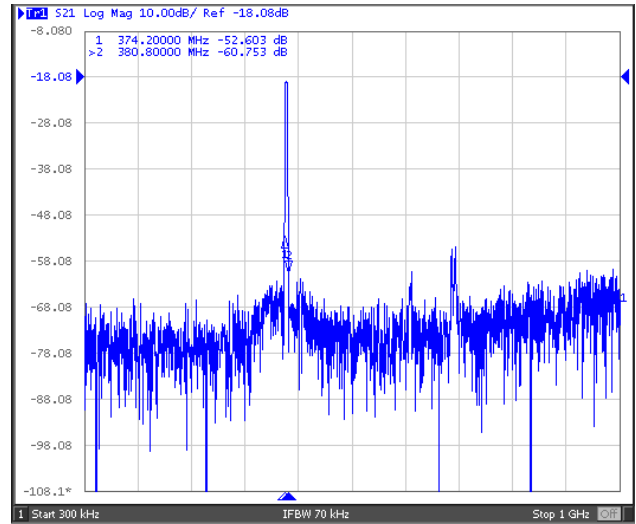
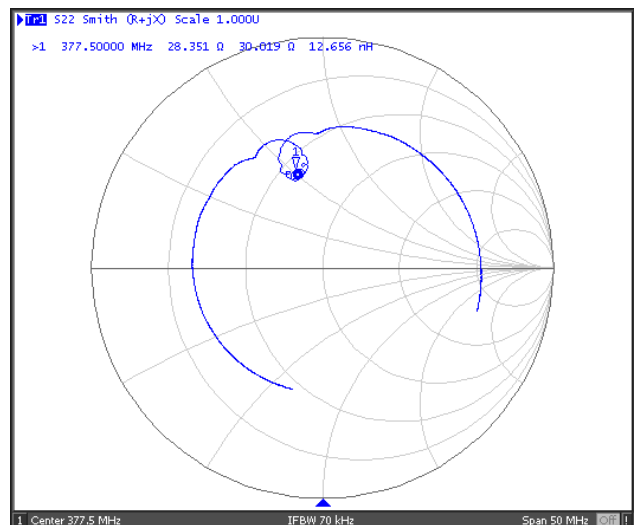### Delay Ripple & S11 VSWR

Phase Linearity & S22 VSWR

S11 Smith Chart

S22 Smith Chart

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

No.	Test item	Test condition
1	Temperature Storage	(1) Temperature: 85℃±2℃ , Duration: 250h , Recovery time: 2h±0.5h (2) Temperature: –55℃±3℃ , Duration: 250h ,Recovery time: 2h±0.5h
2	Humidity Test	Conditions: 60℃±2℃ , 90~95% RH Duration: 250h
3	Thermal Shock	Heat cycle conditions: TA=-55℃±3℃, TB=85℃±2℃, t1=t2=30min, Switch time: ≤3min, Cycle time: 100 times, Recovery time: 2h±0.5h.
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℃±5℃ 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℃±5℃ , Duration: 10±1s (2)Temperature of Soldering Iron: 350℃±10℃ , Duration: 3~4s , Recovery time : 2 ± 0.5h

Recommended Reflow Soldering Diagram
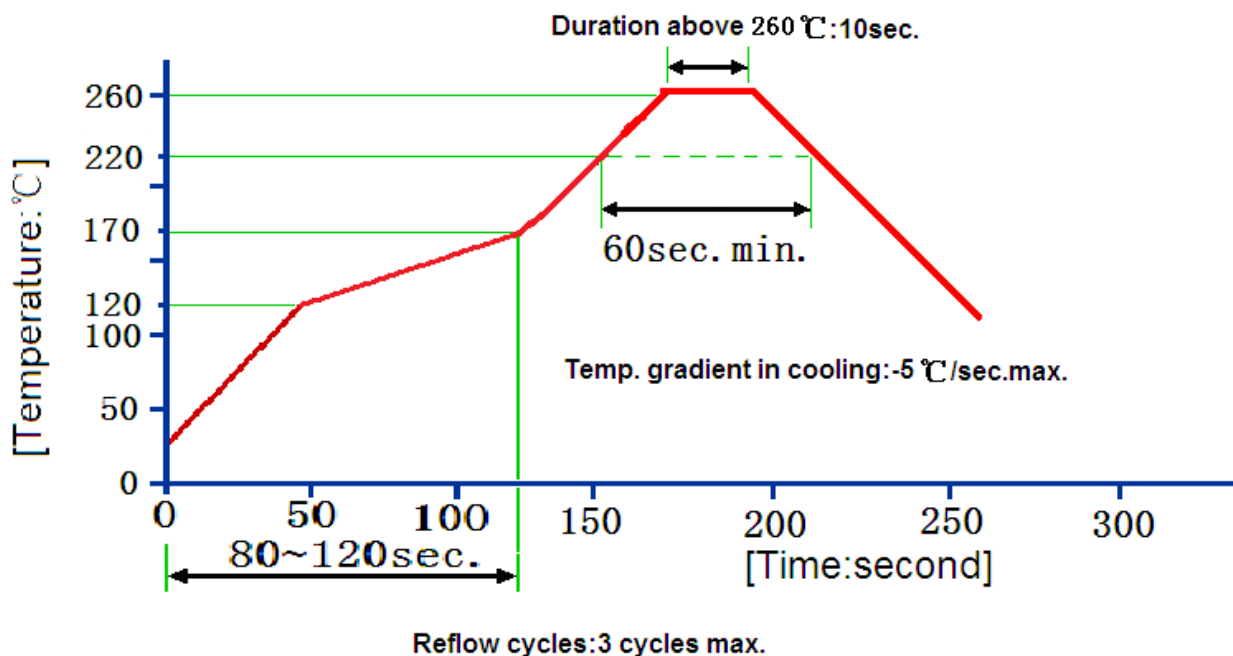
Notes

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.