



APPROVAL SHEET

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

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Part No.	:	SF1277
Pages	:	6
Date	:	2013/7/29
Revision	:	1.0

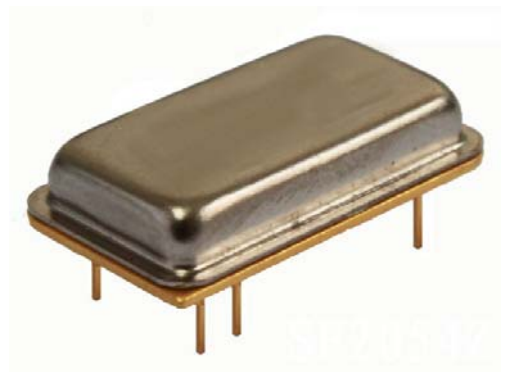
Prepared by:	郑宝琴
Checked by:	
Approved by:	

Application

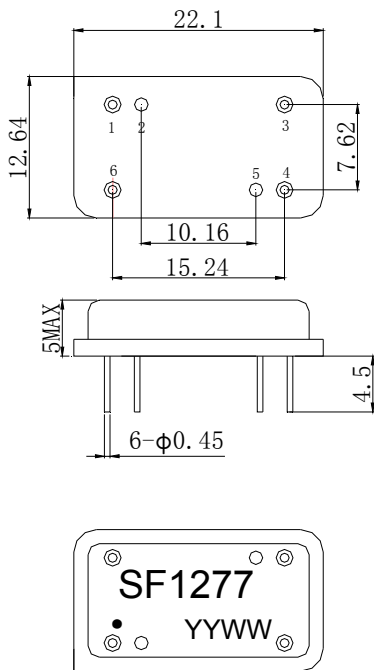
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 2 MHz

Features

- RoHS compatible
- Package size 22.1x12.64x5.00mm³
- Package Code DIP2212J
- Electrostatic Sensitive Device(ESD)



Package Dimensions (Unit: mm)



Pin Configuration

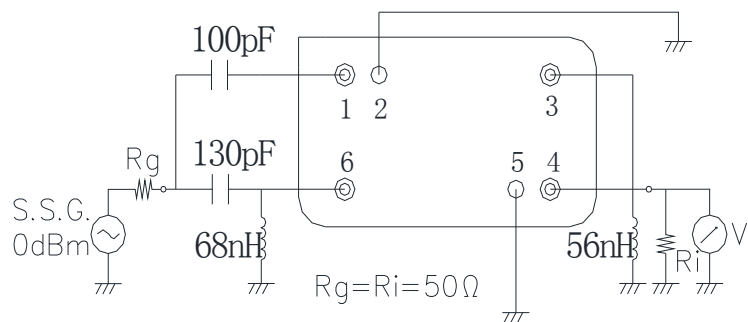
Pin No.	Description
1,6	Input
3,4	Output
2,5	Ground

Marking Description

S	Trademark
F	SAW Filter
1277	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.

Test Circuit (Bottom View)



Performance**Maximum Rating**

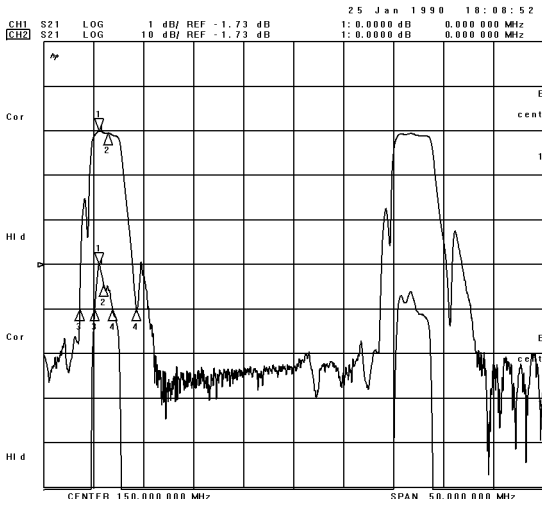
Item		Value	Unit
DC Voltage	V_{DC}	3	V
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T_{stg}	-55 ~ +125	°C
RF Power Dissipation	P	10	dBm

Electronic CharacteristicsTest Temperature: $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Terminating source impedance: 50Ω Terminating load impedance: 50Ω

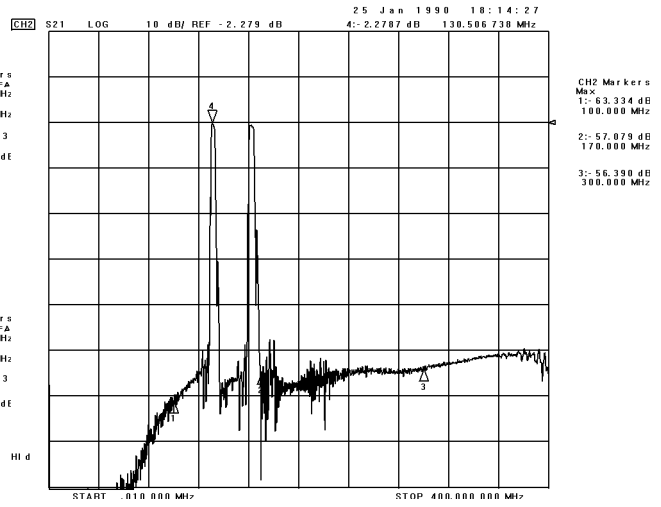
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		131.00 163.00		MHz
Insertion Loss	131.00 MHz IL		3.8	5.0	dB
Insertion Loss	162.00 MHz IL		3.4	5.0	dB
Deviation of Insertion Loss Between 131.00 MHz and 162.00 MHz			0.4	1.0	
Amplitude Ripple (p-p)	130.00-132.00MHz Δa		0.8	1.0	dB
Amplitude Ripple (p-p)	161.00-163.00MHz Δa		0.8	1.0	dB
Absolute Attenuation					
	DC -100.00 MHz	50.0	55.0		dB
	170.00-300.00MHz	45.0	48.0		dB
Input VSWR	130.00-132.00MHz 161.00-163.00MHz		1.7:1	2.5:1	/
Output VSWR	130.00-132.00MHz 161.00-163.00MHz		1.7:1	2.5:1	/

Frequency Characteristics

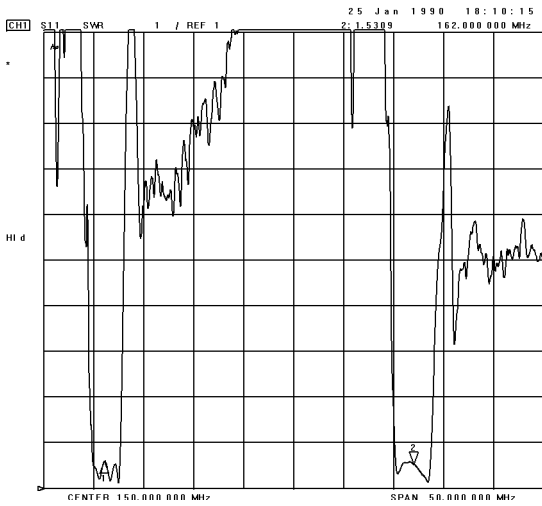
Frequency Response



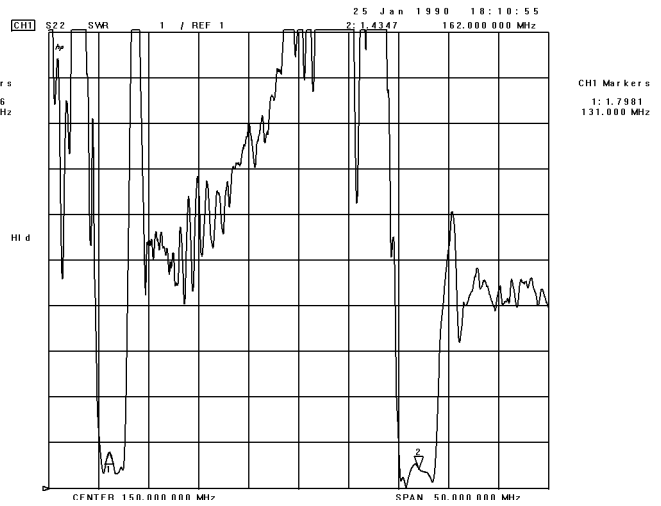
Frequency Response (wideband)



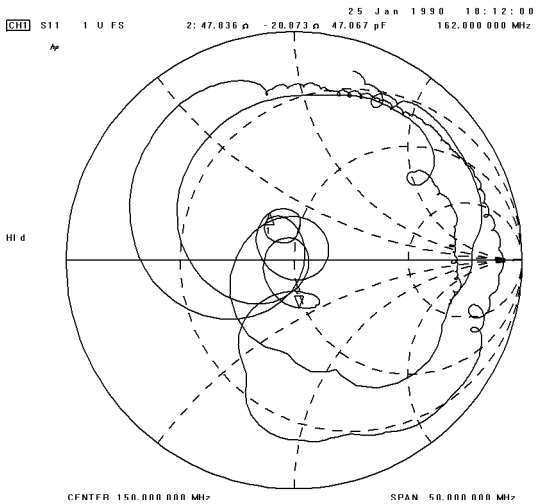
S11 VSWR



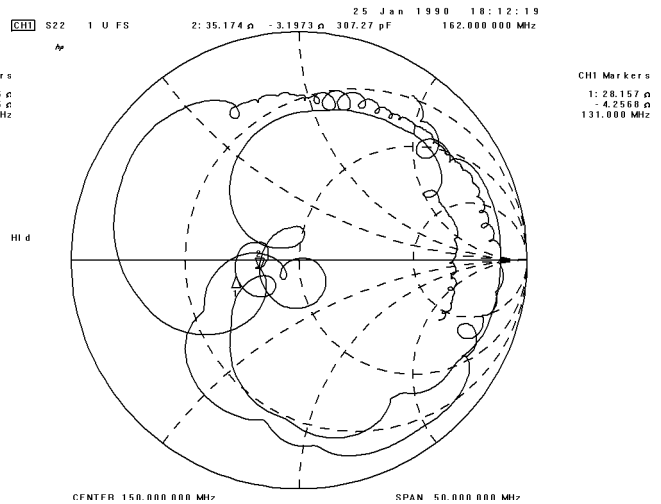
S22 VSWR



S11 Smith Chart



S22 Smith Chart



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.