



APPROVAL SHEET

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

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Part No.	:	SF1210
Pages	:	6
Date	:	2015/1/15
Revision	:	1.1

Prepared by:	梁浩
Checked by:	
Approved by:	

Application

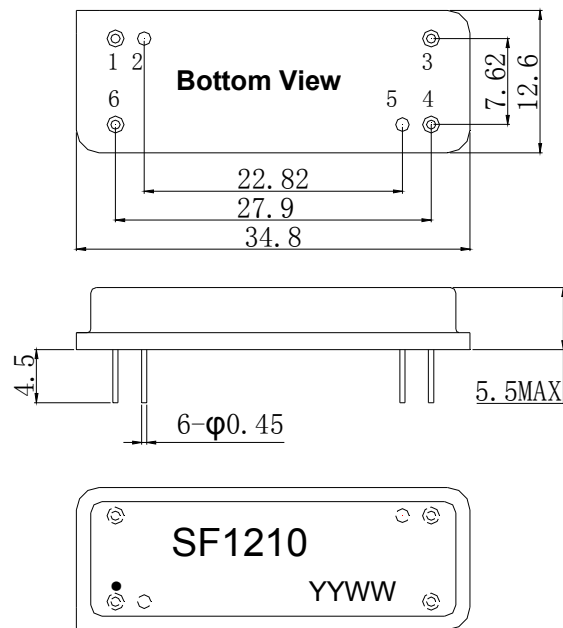
- High-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 25 MHz
- Low Shape factor



Features

- RoHS compatible
- Package size 34.8x12.6x5.50mm³
- Package Code DIP3512
- Electrostatic Sensitive Device(ESD)

Package Dimensions (Unit: mm)



Pin Configuration

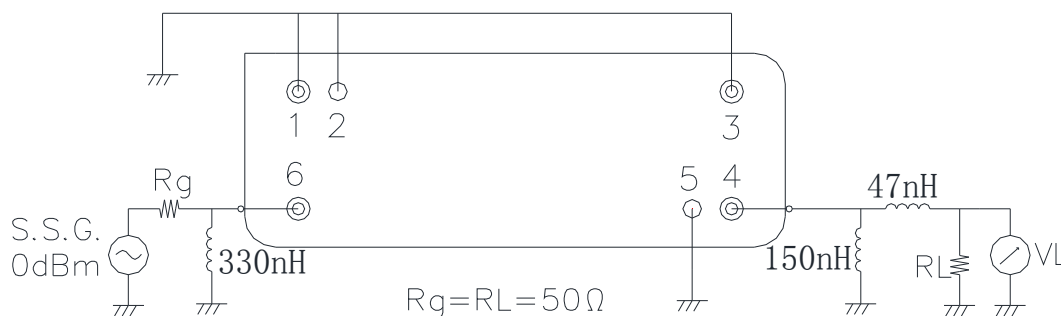
Pin No.	Description
6	Input
4	Output
1,2,3,5	Ground

Marking Description

S	Trademark
F	SAW Filter
1210	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 Characteristics

Test Temperature: 25°C ± 2°C

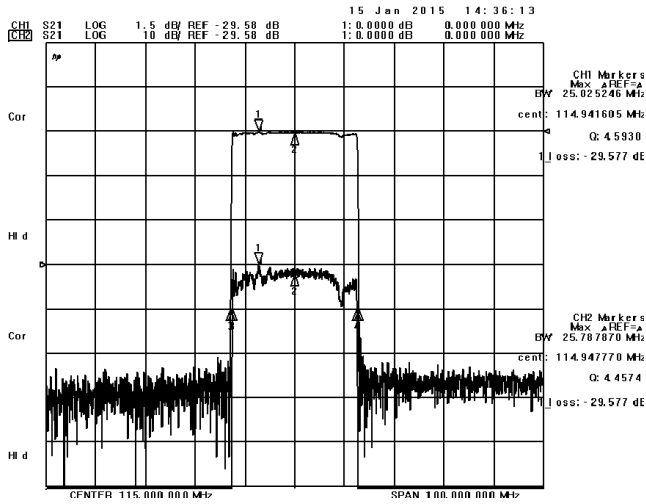
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

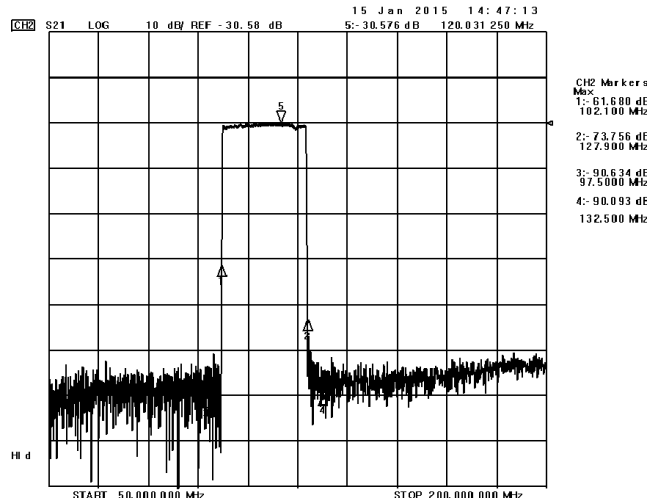
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _c		115.0		MHz
Insertion Loss(min)	IL		29.6	32.0	dB
Amplitude Ripple	Δα		1.4	1.5	dB
1.5 dB Bandwidth	BW _{1.5dB}		25.03		MHz
3 dB Bandwidth	BW _{3dB}	25.00	25.16		MHz
40 dB Bandwidth	BW _{40dB}		25.79	26.00	MHz
Absolute Delay	AD		3.8	4.2	us
Absolute Attenuation	α				
	97.50MHz	50.0	60.0		dB
	101.50MHz	50.0	58.0		dB
	101.90MHz	45.0	50.0		dB
	102.10MHz	20.0			dB
	127.90MHz	20.0			dB
	128.10MHz	45.0	52.0		dB
	128.50MHz	50.0	59.0		dB
	132.50MHz	50.0	59.0		dB

Frequency Characteristics

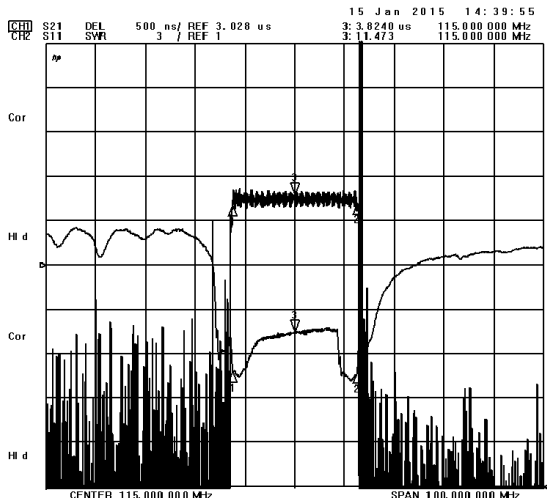
Frequency Response



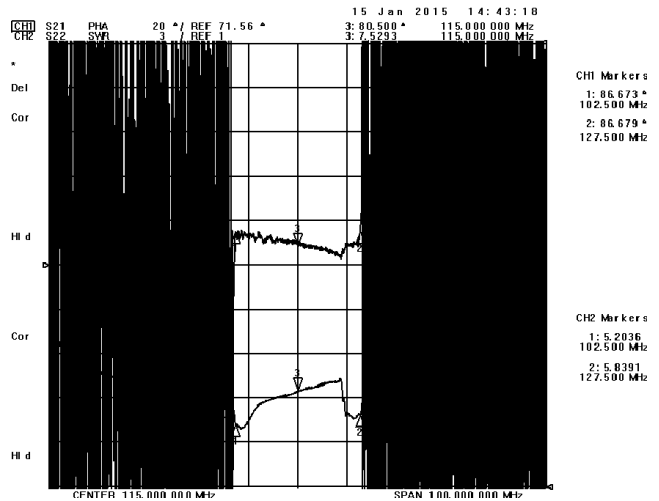
Frequency Response (wideband)



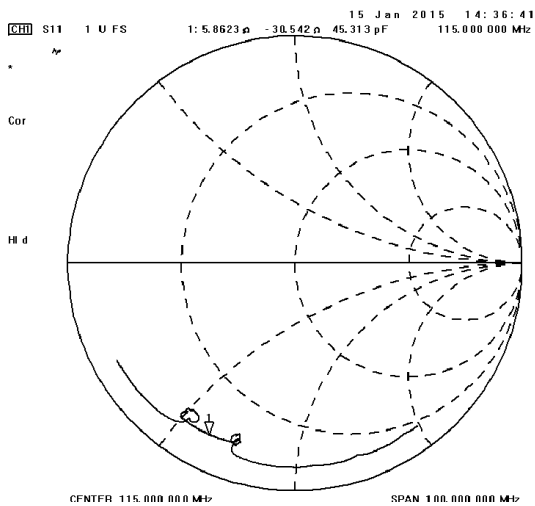
Delay Ripple & S11 VSWR



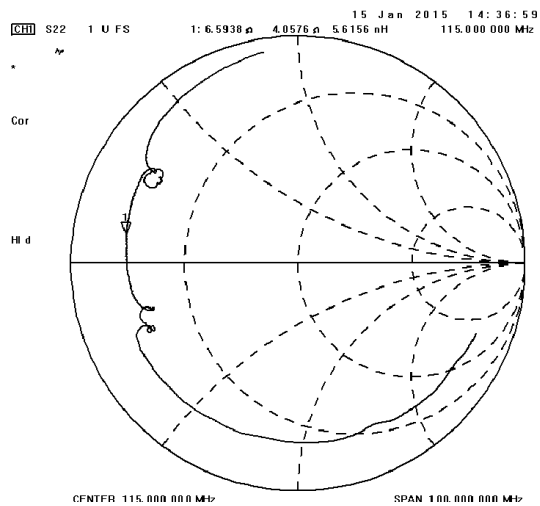
Phase Linearity & S22 VSWR



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.