



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.	:	SF1454
Pages	:	6
Date	:	2015/1/9
Revision	:	1.0

Prepared by:	梁浩
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Approved by:	

Application

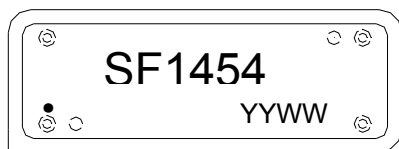
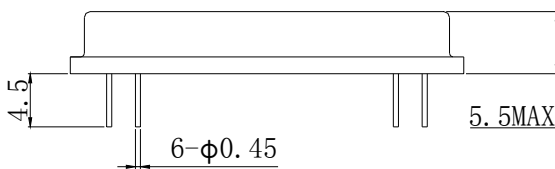
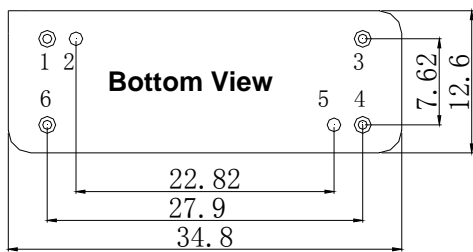
- High-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 4.65 MHz
- Low Shape factor



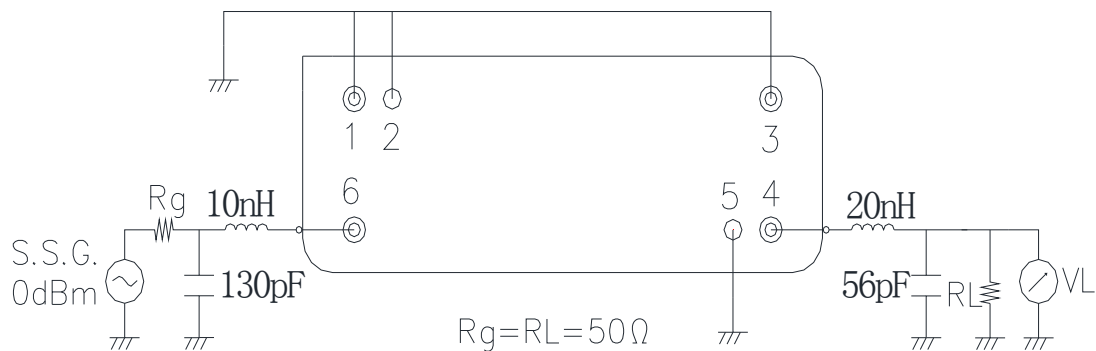
Features

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

Package Dimensions (Unit: mm)



Test Circuit(Bottom View)



Pin Configuration

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

Marking Description

S	Trademark
F	SAW Filter
1454	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.

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

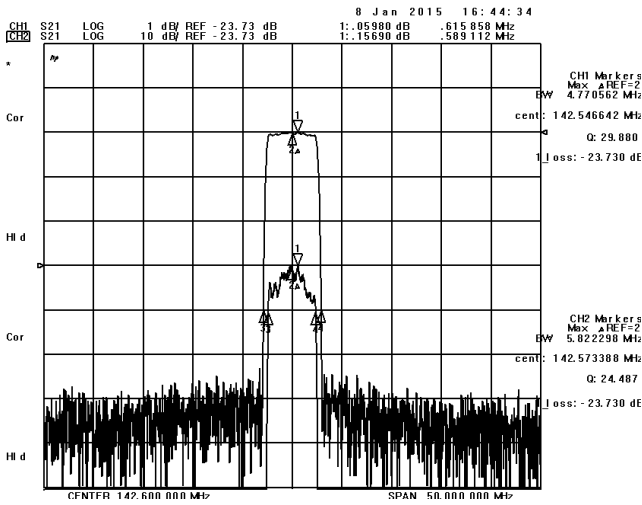
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

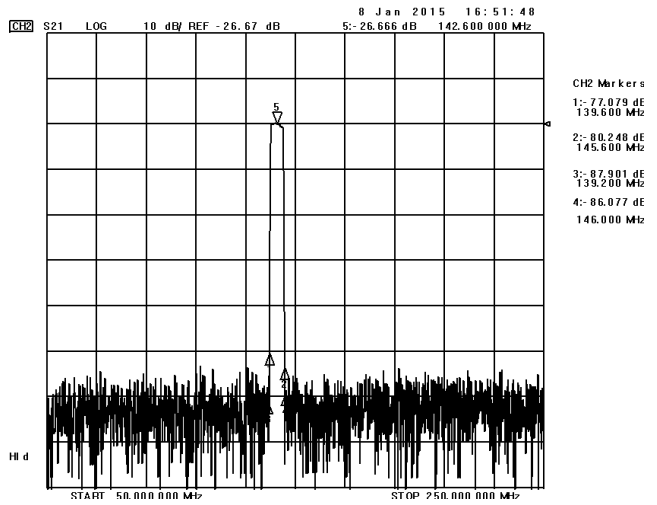
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f _c		142.6		MHz
Insertion Loss(min)	IL		23.8	26.5	dB
Amplitude Ripple (p-p) 140.45-144.75MHz	Δα		0.9	1.2	dB
1 dB Bandwidth(Rel. to f _c)	BW _{1dB}	4.65	4.77		MHz
3 dB Bandwidth(Rel. to f _c)	BW _{3dB}		5.03		MHz
40 dB Bandwidth(Rel. to f _c)	BW _{40dB}		5.80		MHz
50 dB Bandwidth(Rel. to f _c)	BW _{50dB}		5.91	6.20	MHz
Absolute Delay	AD		4.0	4.5	us
Group Delay Ripple 140.45-144.75MHz	GDR		270	300	ns
Absolute Attenuation	α				
	135.20MHz	50.0	68.0		dB
	139.20MHz	50.0	63.0		dB
	139.60MHz	46.0	48.0		dB
	145.60MHz	46.0	51.0		dB
	146.00MHz	50.0	65.0		dB
	150.00MHz	50.0	70.0		dB

Frequency Characteristics

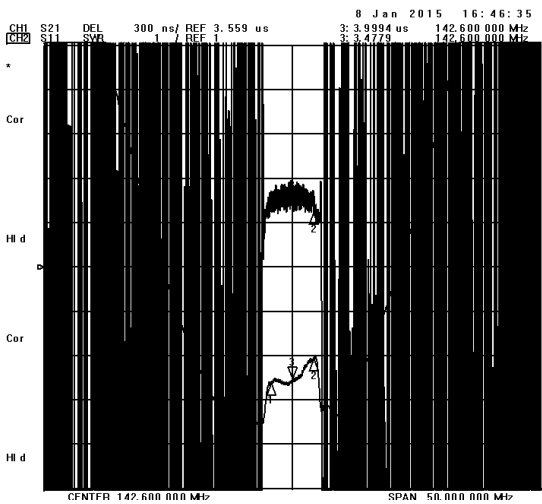
Frequency Response



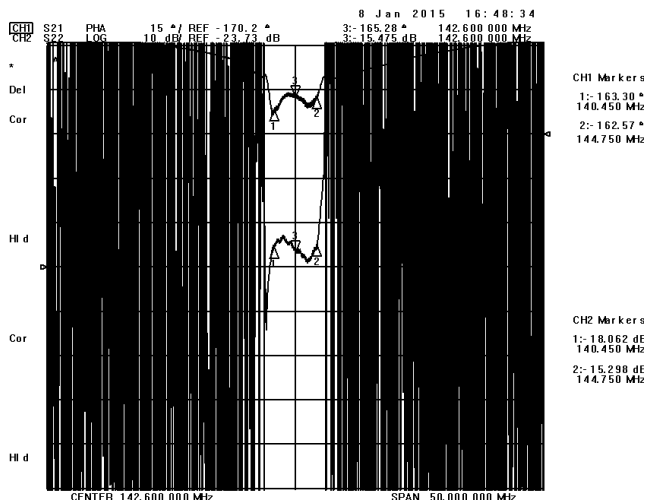
Frequency Response (wideband)



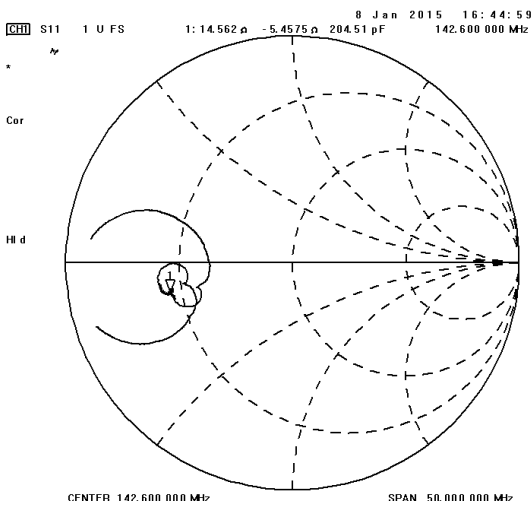
Delay Ripple & S11 VSWR



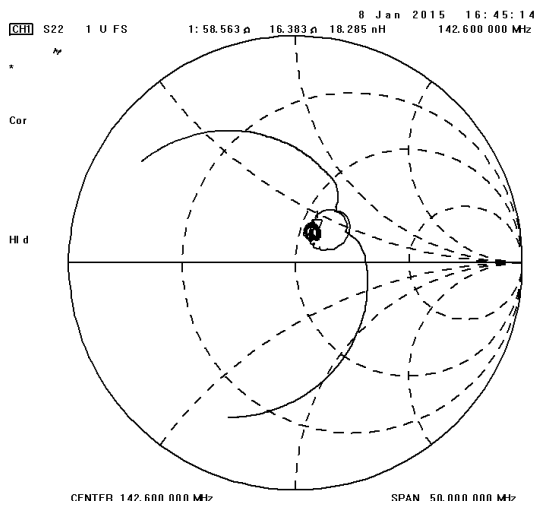
Phase Linearity & S22 VSWR



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.