



# APPROVAL SHEET

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

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Part No.	:	SF0401
Pages	:	6
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Revision	:	1.1

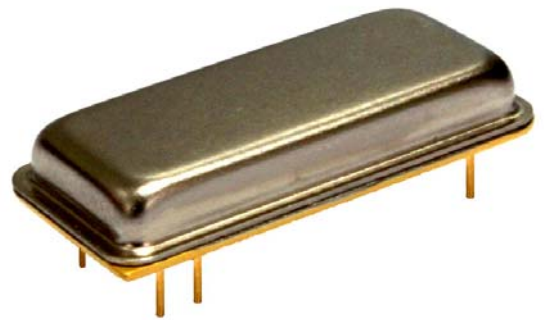
<b>Prepared by:</b>	梁浩
<b>Checked by:</b>	
<b>Approved by:</b>	

**Application**

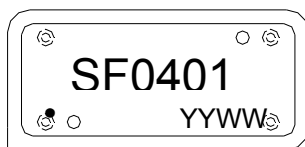
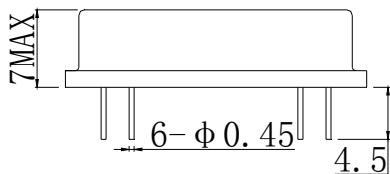
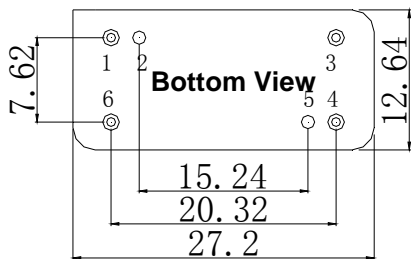
- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 0.17 MHz

**Features**

- RoHS compatible
- Package size 27.2x12.64x7.00mm<sup>3</sup>
- Package Code DIP2712J
- Electrostatic Sensitive Device(ESD)



**Package Dimensions (Unit: mm)**



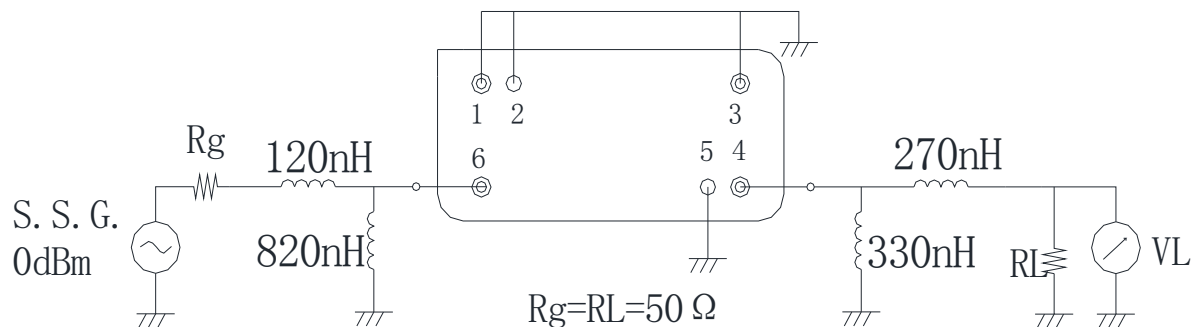
**Pin Configuration**

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

**Marking Description**

<b>S</b>	Trademark
<b>F</b>	SAW Filter
<b>0401</b>	Part Number
●	Pin 1
<b>YYWW</b>	Year Code & Week Code

**Test Circuit(Bottom View)**



\*Fig: If the products produced in 06<sup>th</sup> 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	0 ~ +50	°C
Storage Temperature	$T_{stg}$	-55 ~ +125	°C
RF Power Dissipation	P	10	dBm

**Electronic Characteristics**

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

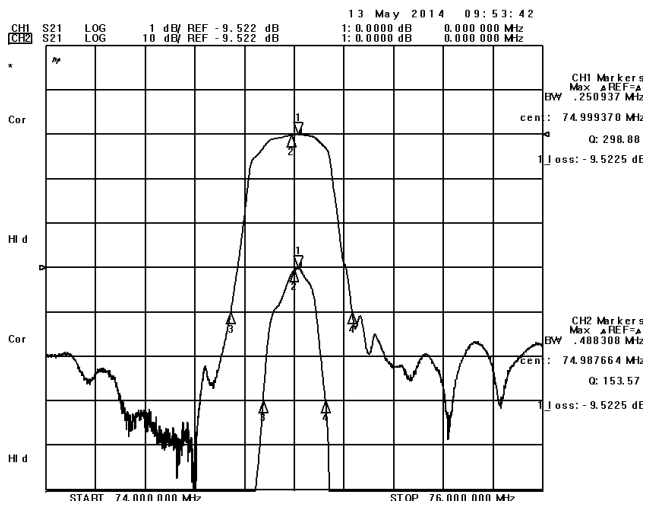
Terminating source impedance:  $50\Omega$

Terminating load impedance:  $50\Omega$

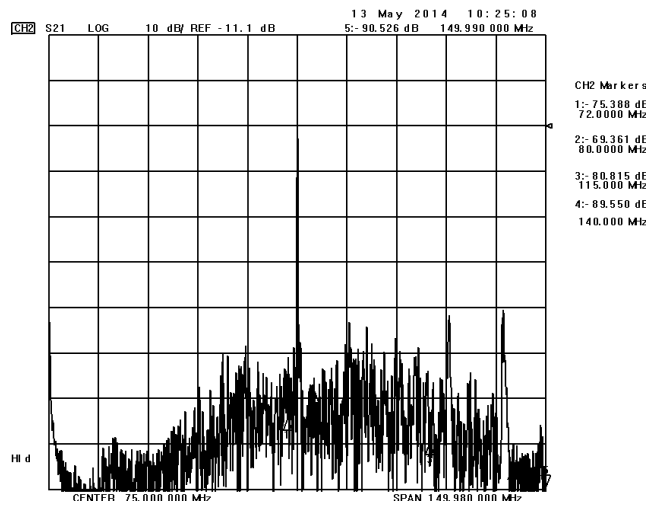
Item		Minimum	Typical	Maximum	Unit
Center Frequency	$f_c$	74.98	75.00	75.02	MHz
Insertion Loss	IL		9.1	10.0	dB
Amplitude Ripple	$\Delta\alpha$		0.6	1.0	dB
3 dB Bandwidth	$BW_{3dB}$	170.0	258.0	260.0	KHz
40 dB Bandwidth	$BW_{40dB}$		475.0	500.0	KHz
Phase Linearity	74.945-75.055MHz		4.0	5.0	deg
Absolute Attenuation	$\alpha$				
	70.00-74.70 MHz	40.0	43.0		dB
	75.30-80.00 MHz	40.0	41.0		dB

Frequency Characteristics

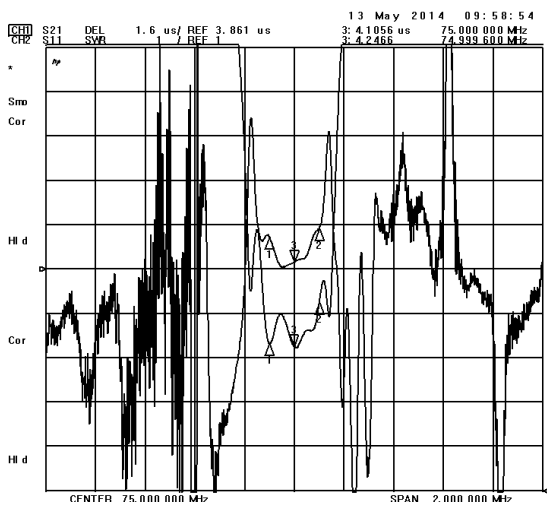
Frequency Response



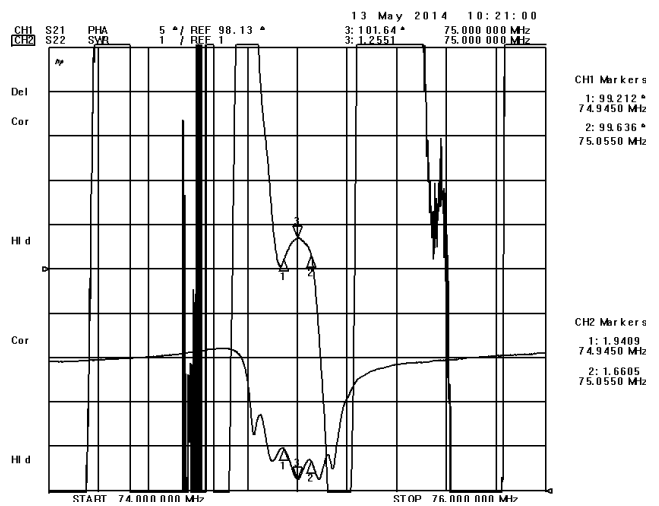
Frequency Response (wideband)



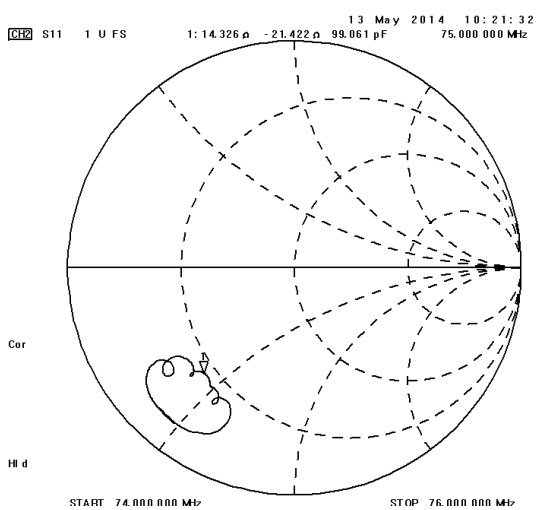
Delay Ripple & S11 VSWR



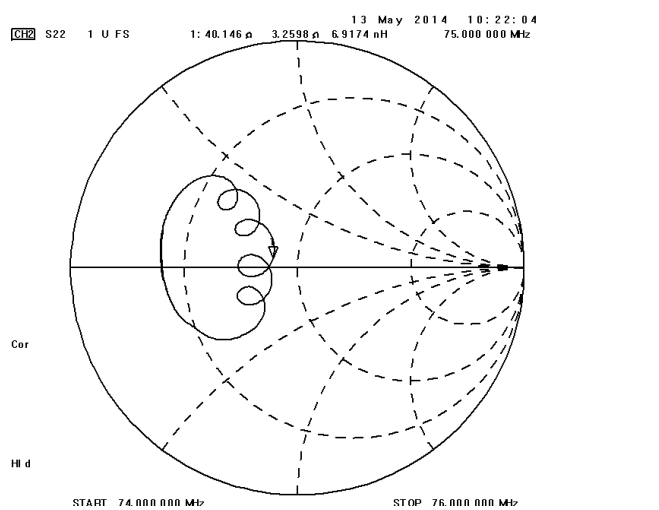
Phase Linearity & S22 VSWR



S11 Smith Chart



S22 Smith Chart





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.