



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.	:	SF4243
Pages	:	6
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Revision	:	1.0

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Checked by:	
Approved by:	

Application

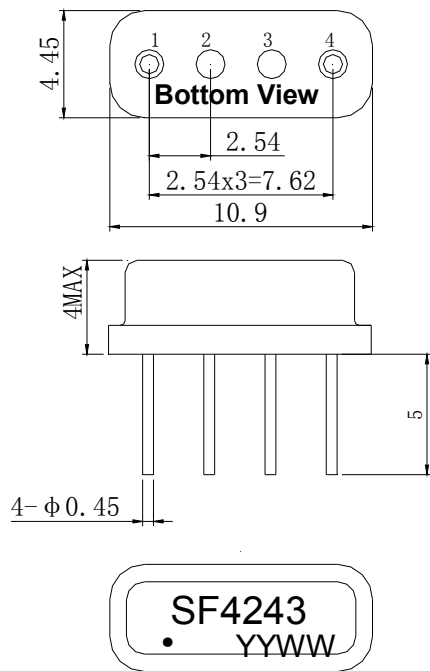
- Low -loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 680KHz

Features

- **RoHS** compatible
- Package size 10.9x4.45x4.00mm³
- Package Code SC04-06
- **Electrostatic Sensitive Device(ESD)**



Package Dimensions (Unit: mm)



Pin Configuration

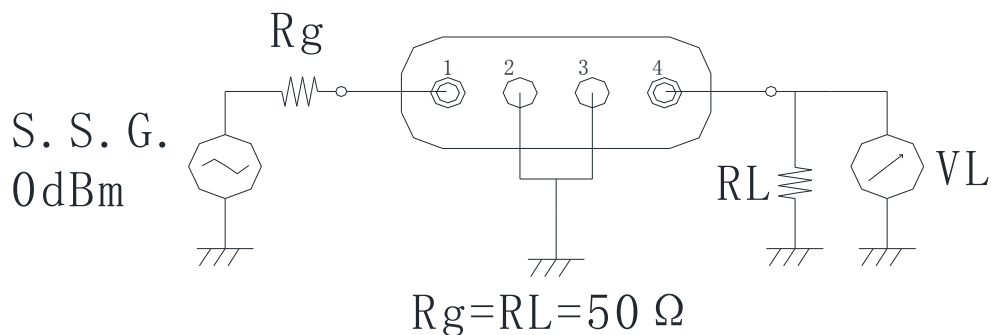
Pin No.	Description
1	Input
4	Output
2,3	Ground

Marking Description

S	Trademark
F	SAW Filter
4243	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	-10 ~ +50	°C
Storage Temperature	T_{stg}	-40 ~ +70	°C
RF Power Dissipation	P	10	dBm

Electronic Characteristics

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

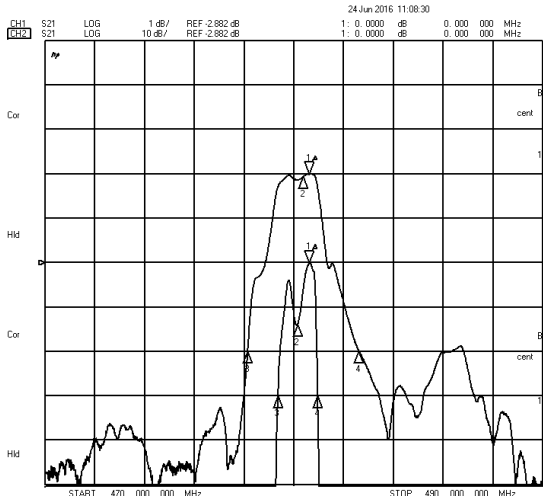
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

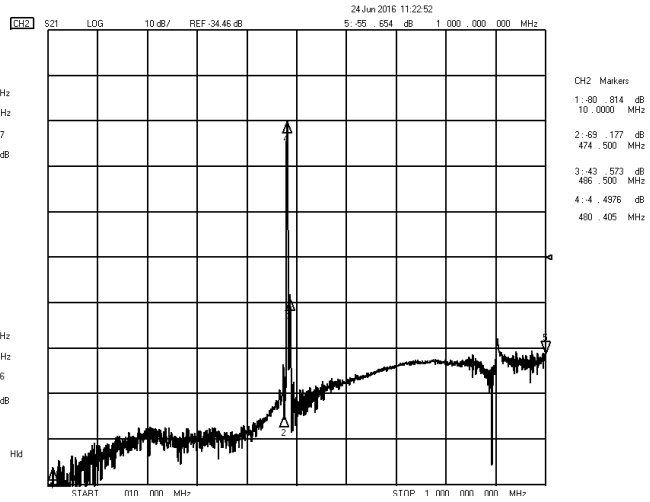
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		480.0		MHz
Insertion Loss(min) @Fc	IL		5.0	7.0	dB
3 dB Bandwidth	BW_{3dB}	0.68	1.60		MHz
40 dB Bandwidth	BW_{40dB}		4.47	5.00	MHz
Absolute Attenuation	α				
	10.00-474.50MHz	45	54		dB
	486.50-487.50MHz	37			dB
	487.50-1000.00MHz	40	45		dB
Input VSWR @Fc			2.2	6.0	/
Output VSWR @Fc			2.2	6.0	/

Frequency Characteristics

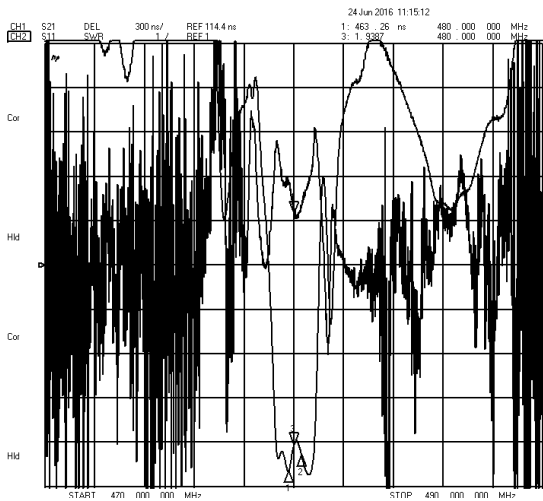
Frequency Response



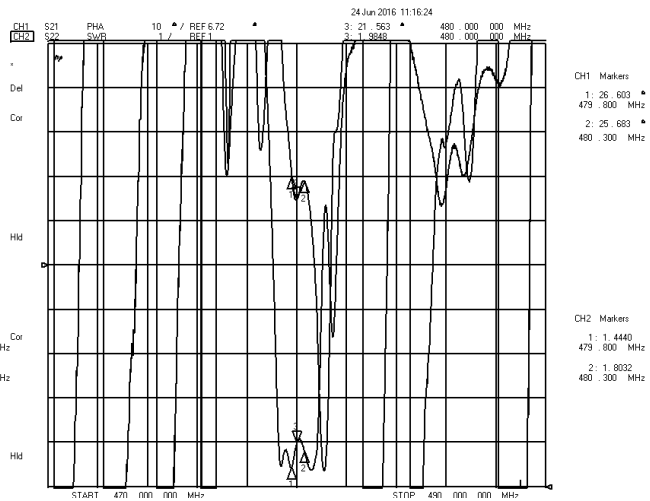
Frequency Response (wideband)



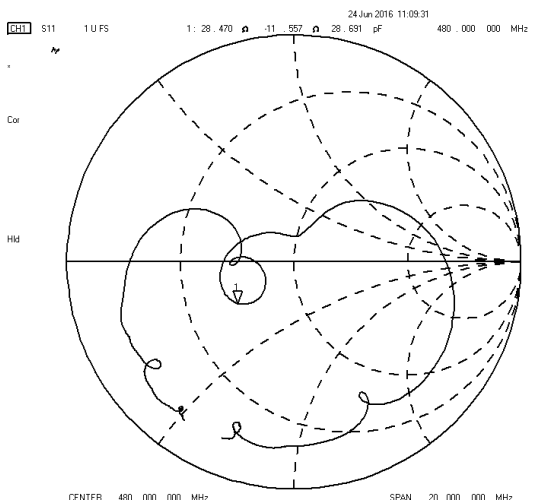
Delay Ripple & S11 VSWR



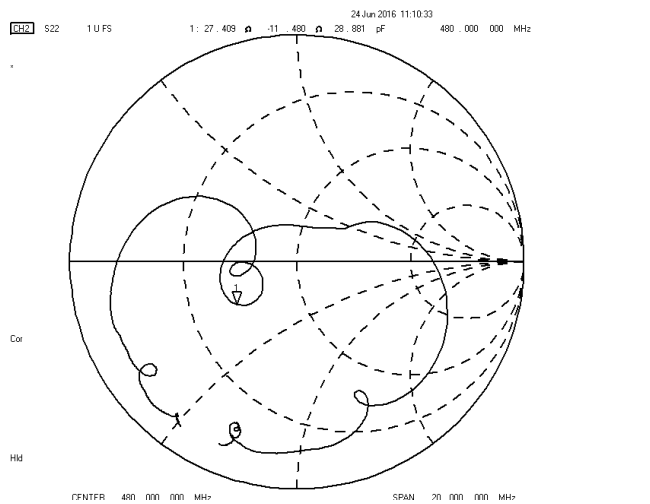
Phase Linearity & S22 VSWR



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.