



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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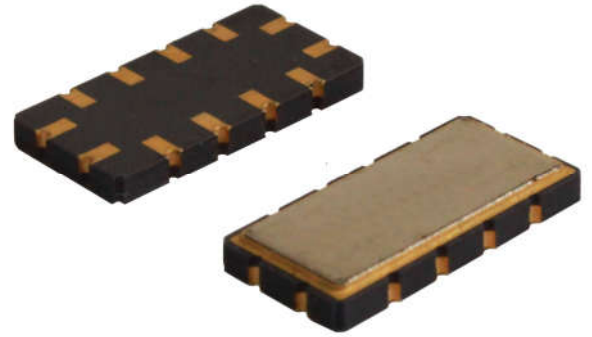


Part No.	:	SF0725
Pages	:	7
Date	:	2017/4/10
Revision	:	1.0

Prepared by:	刘菲
Checked by:	卢翠
Approved by:	高亚京

Application

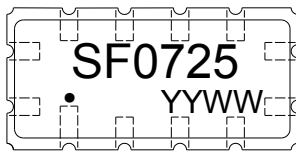
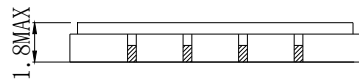
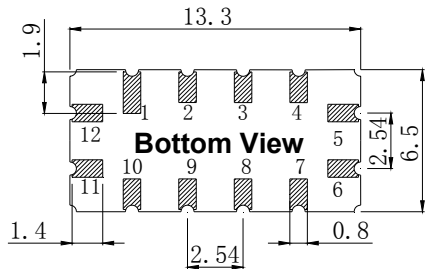
- High-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Passband 0.1 MHz



Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 13.30x6.50x1.80mm³
- Package Code QCC12
- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



Pin Configuration

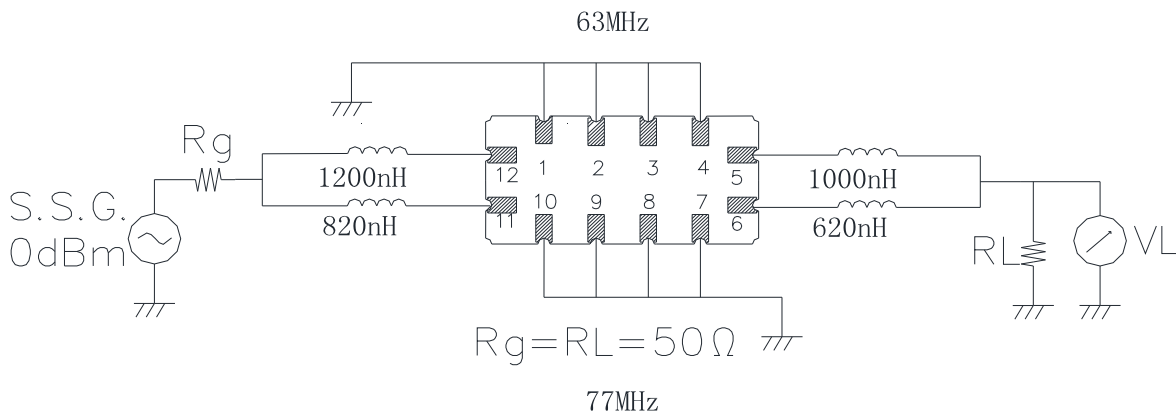
Pin No.	Description
11, 12	Input
5, 6	Output
1, 2, 3, 4, 7, 8, 9, 10	Ground

Marking Description

S	Trademark
F	SAW Filter
0725	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 ~ +70	°C
Storage Temperature	T_{stg}	-55 ~ +85	°C
RF Power Dissipation	P	10	dBm

Electronic Characteristics

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

Terminating source impedance: 50Ω

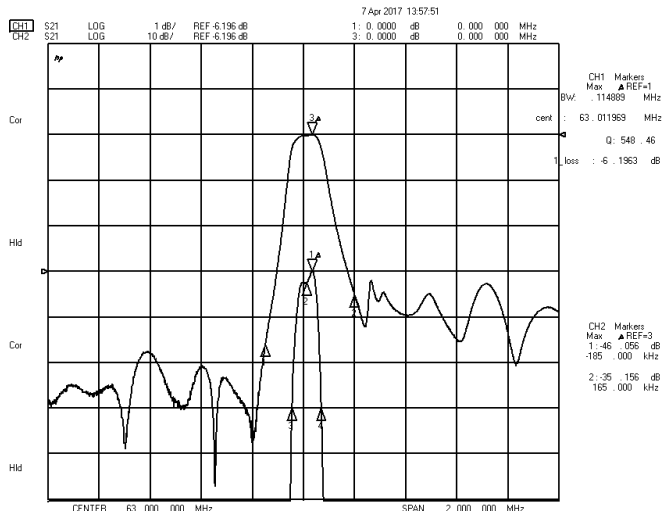
Terminating load impedance: 50Ω

Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		63.0		MHz
Insertion Loss(min)	IL		6.2	15.0	dB
3dB Bandwidth	BW_{3dB}	0.1	0.11		MHz
Absolute Attenuation	α				
	62.85 MHz	30.0	45.0		dB
	63.20 MHz	30.0	35.0		dB

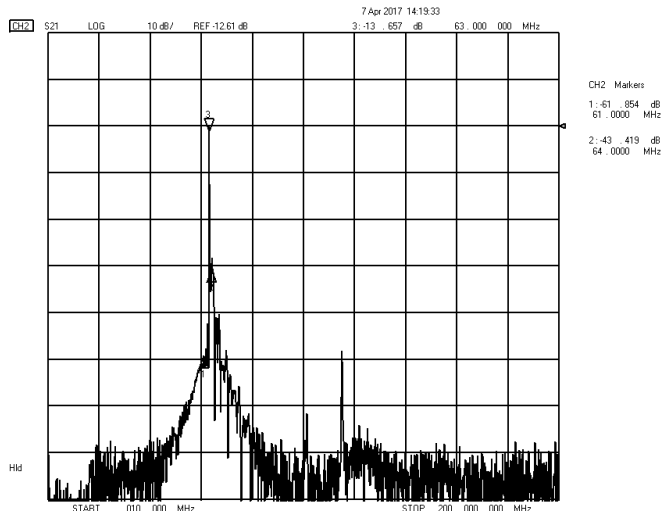
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c		77.0		MHz
Insertion Loss(min)	IL		5.5	15.0	dB
3dB Bandwidth	BW_{3dB}	0.1	0.14		MHz
Absolute Attenuation	α				
	76.85 MHz	25.0	35.0		dB
	77.20MHz	25.0	32.0		dB

Frequency Characteristics (63MHz)

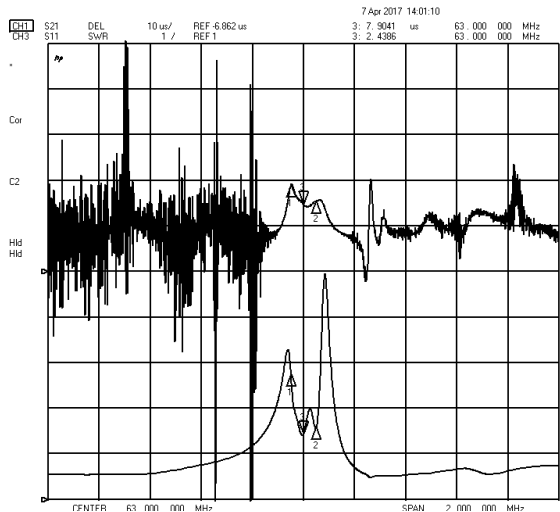
Frequency Response



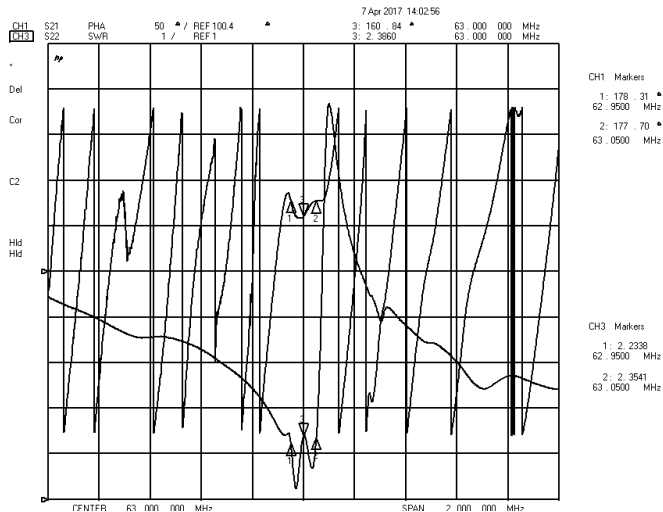
Frequency Response (wideband)



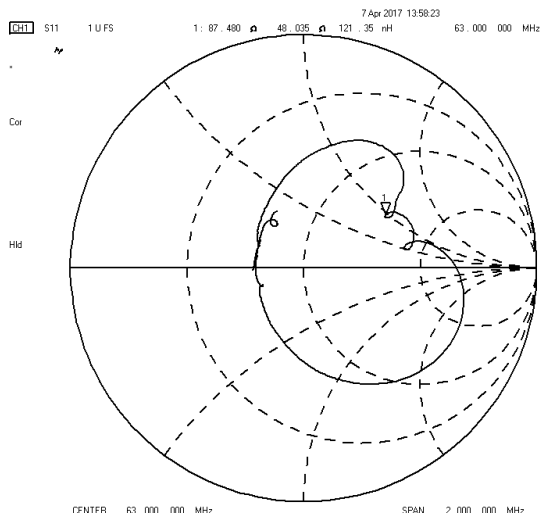
Delay Ripple & S11 VSWR



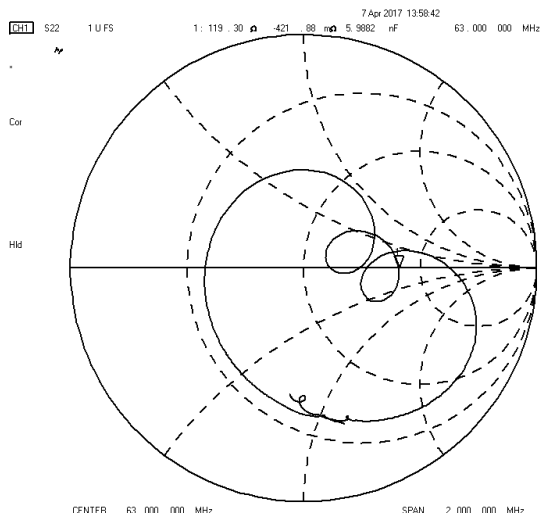
Phase Linearity & S22 VSWR



S11 Smith Chart

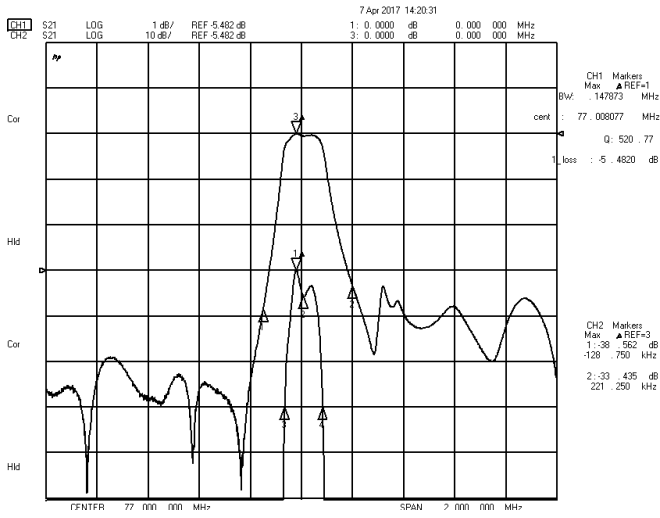


S22 Smith Chart

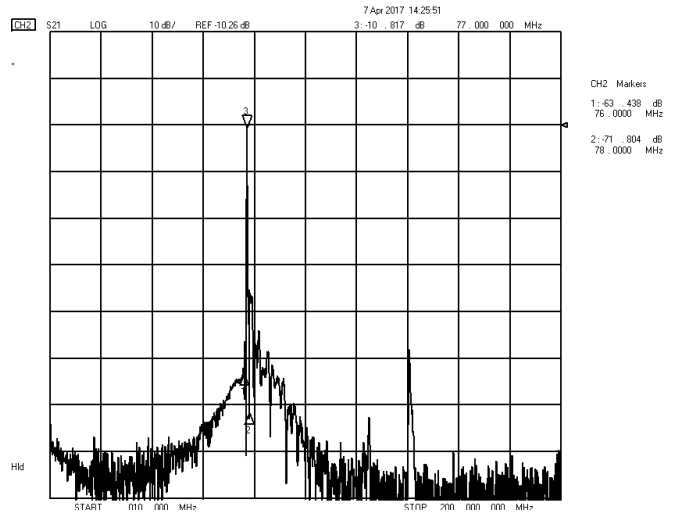


Frequency Characteristics (77MHz)

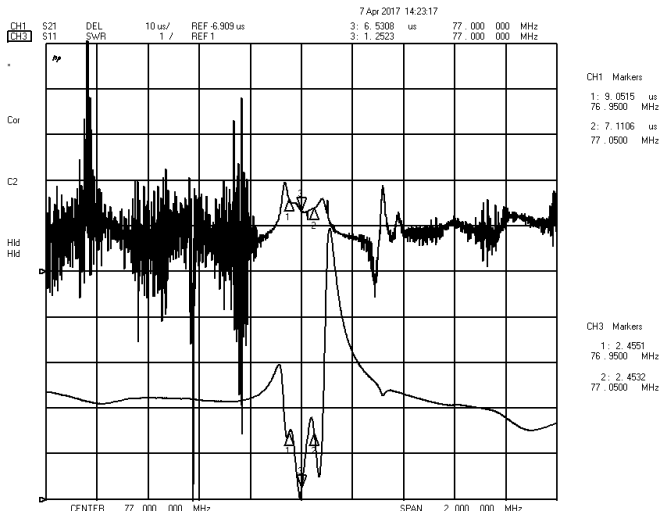
Frequency Response



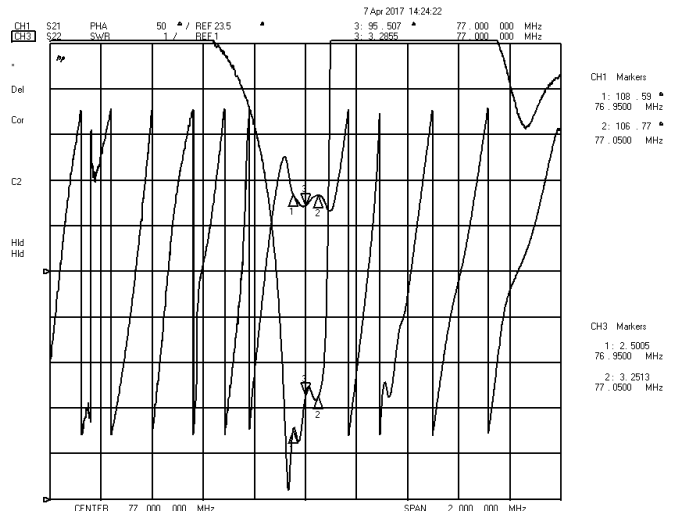
Frequency Response (wideband)



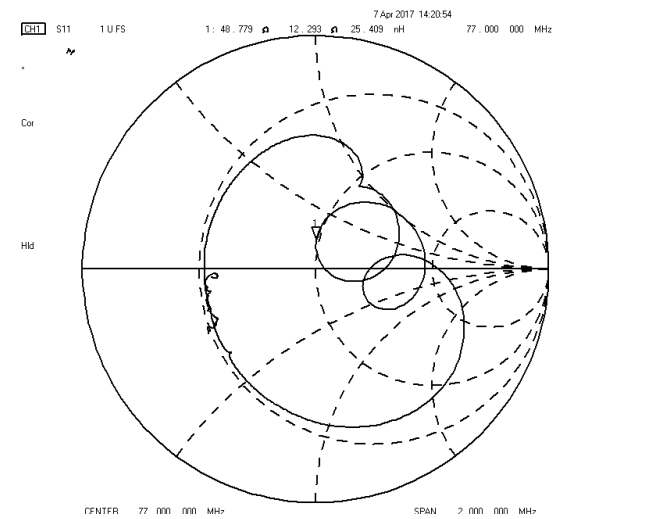
Delay Ripple & S11 VSWR



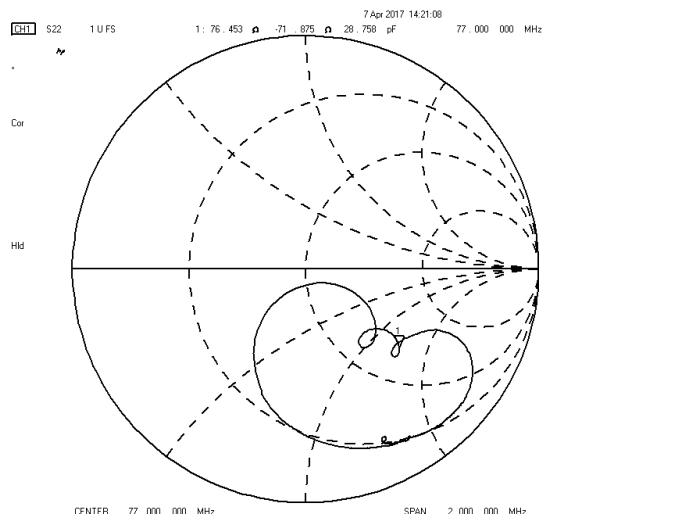
Phase Linearity & S22 VSWR



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.