



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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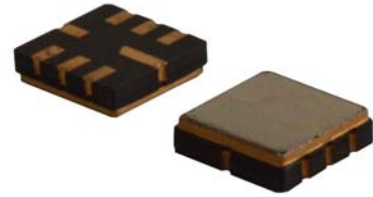


Part No.	:	SF2152
Pages	:	6
Date	:	2013/3/15
Revision	:	1.0

Prepared by:	郑宝琴
Checked by:	
Approved by:	

Application

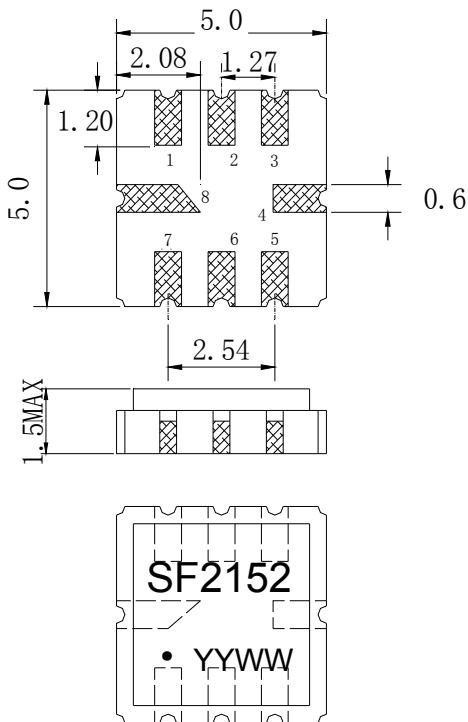
- Low-loss SAW component
- Low amplitude ripple
- Usable passband 10 MHz



Features

- Ceramic Package for **Surface Mounted Technology (SMT)**
- **RoHS** compatible
- Package size 5.00x5.00x1.50mm³
- Package Code QCC8C
- **Electrostatic Sensitive Device(ESD)**

Package Dimensions (Unit: mm)



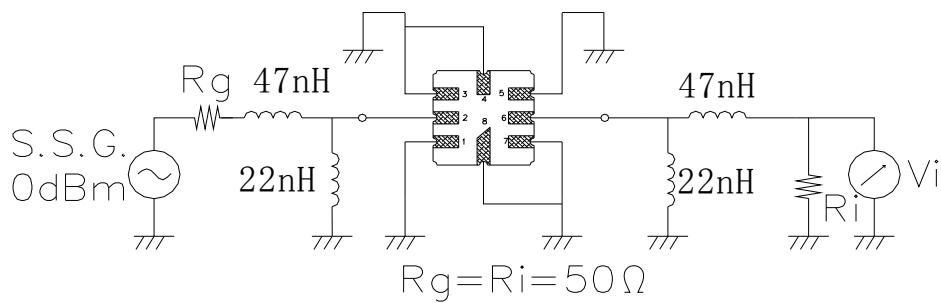
Pin Configuration

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

Marking Description

S	Trademark
F	SAW Filter
2152	Part Number
●	Pin 1
YYWW	Year Code & Week Code

Test Circuit



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

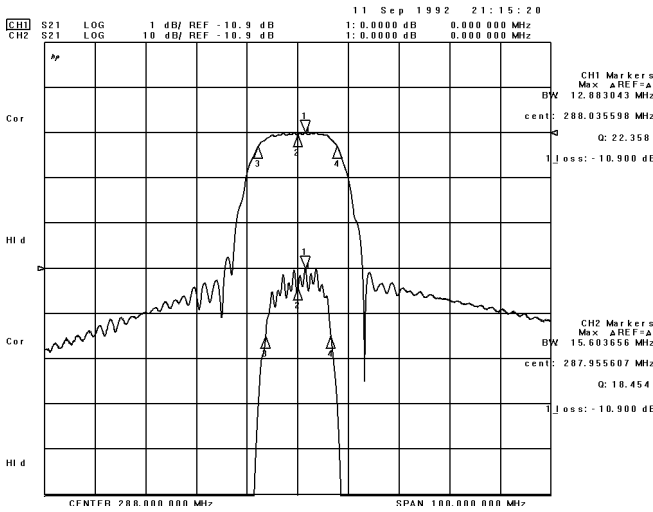
Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

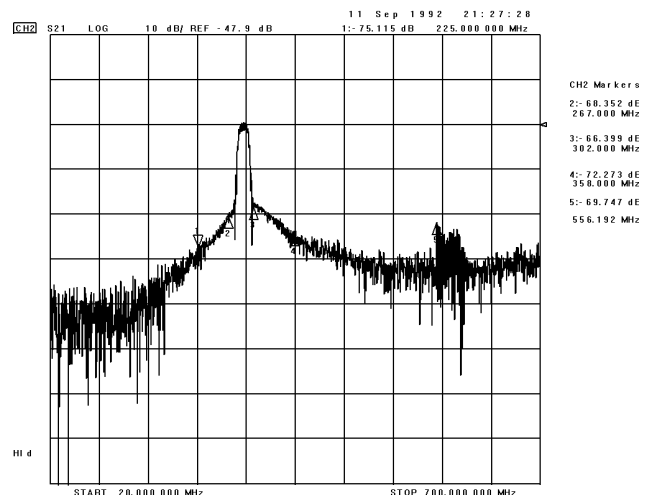
Item		Minimum	Typical	Maximum	Unit
Center Frequency	f_c	287.75	288.0	288.25	MHz
Insertion Loss(min)	IL		11.0	15.0	dB
Amplitude Ripple (p-p) 283.00-293.00MHz	$\Delta\alpha$		0.9	1.0	dB
1.5 dB Bandwidth	$BW_{1.5dB}$	11.1	12.9		MHz
Group Delay Ripple 282.50-293.50MHz	GDR		50.0	200.0	ns
Absolute Attenuation	α				
	250.90 MHz	43.0	50.0		dB
	269.40 MHz	42.0	45.0		dB
	273.70 MHz	30.0	35.0		dB
	279.40 MHz	4.5	4.8		dB
	296.60 MHz	4.5	5.2		dB
	302.30 MHz	30.0	45.0		dB
	306.60 MHz	42.0	46.0		dB
	325.10 MHz	43.0	51.0		dB
Input VSWR 282.50-293.50MHz			1.7:1	2.0:1	/
Output VSWR 282.50-293.50MHz			1.7:1	2.0:1	/

Frequency Characteristics

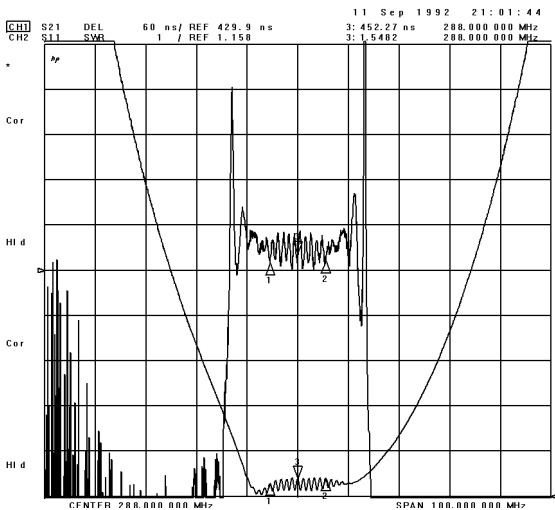
Frequency Response



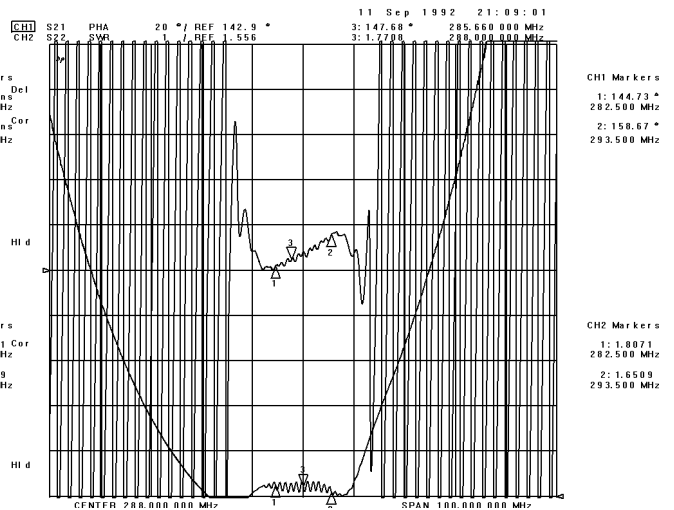
Frequency Response (wideband)



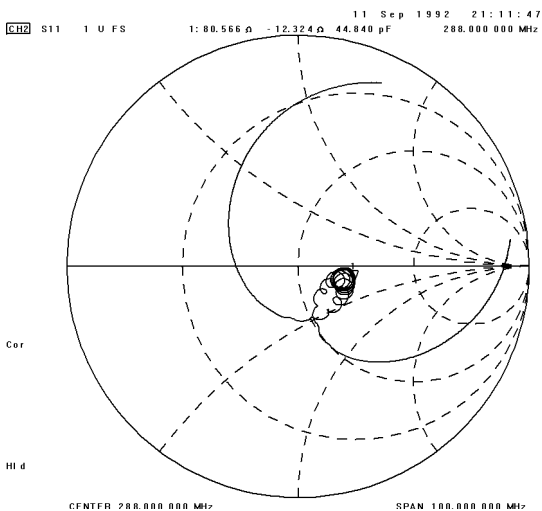
Delay Ripple & S11 VSWR



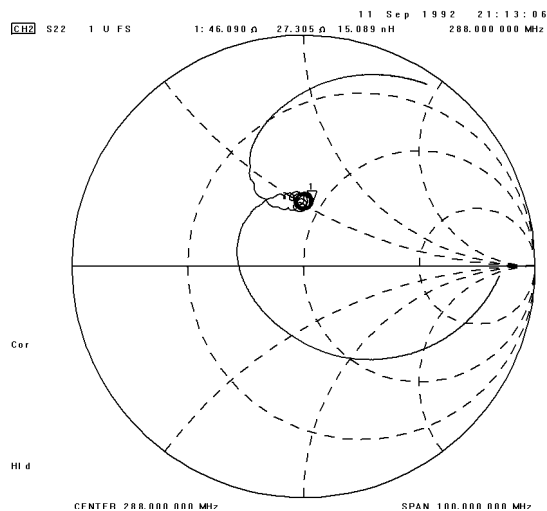
Phase Linearity & S22 VSWR



S11 Smith Chart

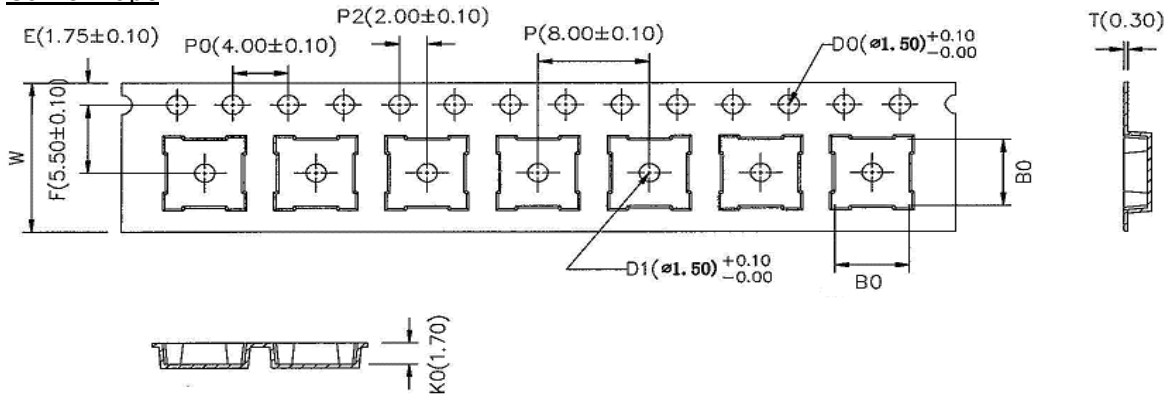


S22 Smith Chart



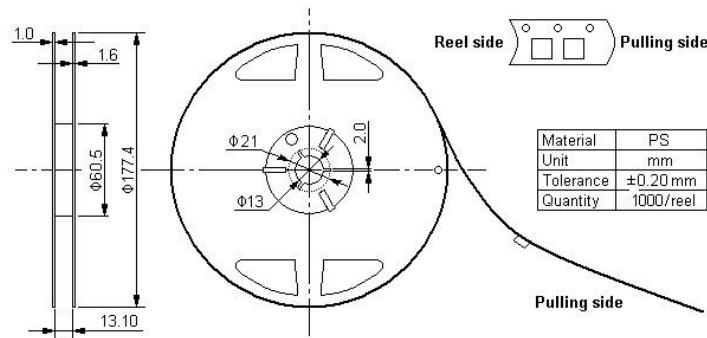
Packing Information

Carrier Tape



* B0: 5.35 for QCC8C; 4.15 for DCC6/QCC8B; 3.35 for DCC6C/QCC8D

Reel Dimensions



Material	PS
Unit	mm
Tolerance	±0.20 mm
Quantity	1000/reel

Outer Packing

Type	Quantity	Dimension	Description	Weight
Internal box	1000	190×188×42	carton box	0.18
External box	10000	235×205×210	2 reel / internal box 5 boxes / external box	

Unit: mm

Unit: kg

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.