

APPROVAL SHEET

Approval Specification	Customer's Approval Certificate
то:	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.	:	SF3244
Pages	:	6
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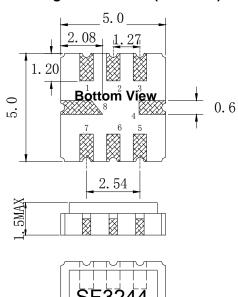
Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 50 MHz

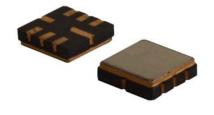
Features

- 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)







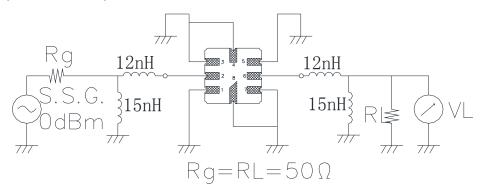
Pin Configuration

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

Marking Description

s	Trademark		
F SAW Filter			
3244	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.



Please read notes at the end of this document.

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Performance

Maximum Rating

Item	Value	Unit	
DC Voltage	V _{DC}	3	V
Operation Temperature	Т	-40 ~ +70	$^{\circ}$
Storage Temperature	T _{stg}	-40 ~ +85	${\mathbb C}$
RF Power Dissipation	Р	10	dBm

Electronic Characteristics

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

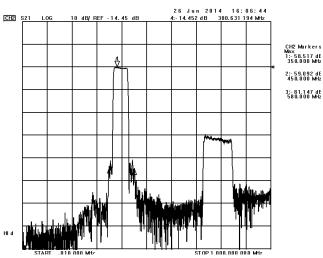
Terminating source impedance: 50Ω Terminating load impedance: 50Ω

	Minimum	Typical	Maximum	Unit		
Center Frequency		fc		395.0		MHz
Insertion Loss(min)		IL		11.6	15.0	dB
Amplitude Ripple		Δa		0.8	2.0	dB
2 dB Bandwidth		BW _{2dB}	54.0	54.9		MHz
40 dB Bandwidth		BW _{40dB}		66.1	80.0	MHz
Group Delay Ripple	370.00-420.00MHz	GDR		45.0	100.0	ns
Absolute Attenuation		а				
	DC-355.00 MHz		37.0	40.0		dB
	435.00-600.00 MHz		37.0	40.0		dB
	580.00MHz		40.0	67.0		dB
Input VSWR	370.00-420.00MHz			1.6:1	3.0:1	/
Output VSWR	370.00-420.00MHz			2.6:1	3.0:1	/

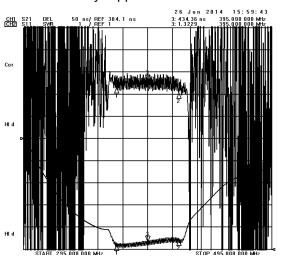
Frequency Characteristics

Frequency Response

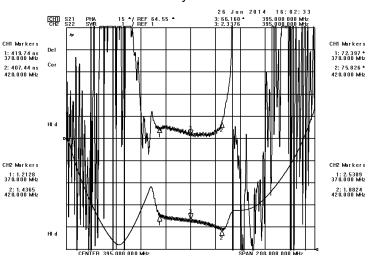
Frequency Response (wideband)



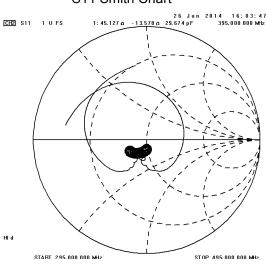
Delay Ripple & S11 VSWR



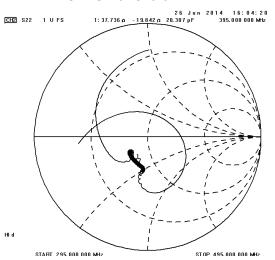
Phase Linearity & S22 VSWR



S11 Smith Chart



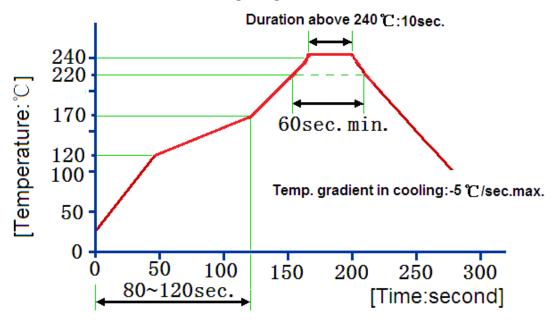
S22 Smith Chart



Reliability (The SAW components shall remain electrical performance after tests)

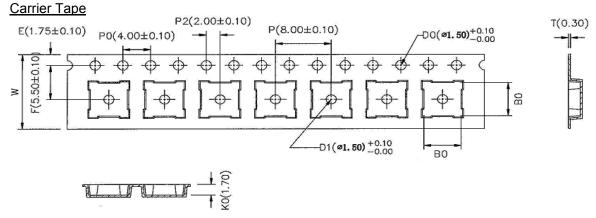
No.	Test item	Test condition
4	Temperature	(1) Temperature: 85℃±2℃, Duration: 250h, Recovery time: 2h±0.5h
1	Storage	(2) Temperature: –55℃±3℃ , Duration: 250h ,Recovery time: 2h±0.5h
2	Humidity Test	Conditions: 60℃±2℃, 90~95% RH Duration: 250h
3	Thermal Shock	Heat cycle conditions: TA=-55℃±3℃, TB=85℃±2℃, t1=t2=30min, Switch
3	Thermal Shock	time: ≤3min, Cycle time: 100 times, Recovery time: 2h±0.5h.
4	Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm
-	Vibration Latigue	Directions: X,Y and Z Duration: 2h
5	Drop Test	Cycle time: 10 times Height: 1.0m
		Temperature: 245 ℃ ±5 ℃ Duration: 3.0s5.0s
6 Solder Ability Test		Depth: DIP2/3 , SMD1/5
		(1)Thickness of PCB:1mm , Solder condition: 260 ℃±5 ℃ , Duration: 10±1s
7	(2)Temperature of Soldering Iron: 350 ℃±10 ℃ , Duration: 3~4s ,	
		Recovery time: 2 ± 0.5h

Recommended Reflow Soldering Diagram



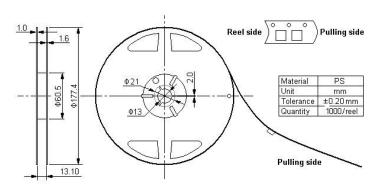
Reflow cycles:3 cycles max.

Packing Information



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

Reel Dimensions



Outer Packing

Туре	Quantity	Dimension	Description	Weight
Internal box	1000	190×188×42 carton box 2 reel / internal box		0.18
External box	10000	235×205×210	5 boxes / external box	1.80

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.