

APPROVAL SHEET

Approval Specification

TO:

Part No.:

Customer's Approval Certificate

Please return this copy as a certification of your approval

Checked & Approved by:

Customer's Part No.:

Date:

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Part No.	:	SF3157
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Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 9 MHz

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	
3157	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



SF3157

9 MHz Bandwidth

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Performance

Maximum Rating

Item	Value	Unit	
DC Voltage	V _{DC}	3	V
Operation Temperature	т	-40 ~ +85	°C
Storage Temperature	T _{stg}	-55 ~ +125	°C
RF Power Dissipation	Р	10	dBm

Electronic Characteristics

Test Temperature: 25℃±2℃

Terminating source impedance: 50Ω

Terminating load impedance: 50Ω

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc	339.0	340.0	341.0	MHz
Insertion Loss(min)	IL		1.1	3.0	dB
Amplitude Ripple (p-p) 335.00-345.00MHz	۵		1.2	1.5	dB
1.5 dB Bandwidth	BW1.5dB	12.0	13.6		MHz
40 dB Bandwidth	BW40dB		24.4	30.0	MHz
Absolute Attenuation	a				
DC -320.00 MHz		35.0	50.0		dB
360.00-1000.00MHz		35.0	45.0		dB
Input VSWR 335.00-345.00MHz			2.5:1	3.0:1	/
Output VSWR 335.00-345.00MHz			2.5:1	3.0:1	/

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Reliability (The S	AW components sha	all remain electrical	performance after tests)
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No.	Test item	Test condition		
	Temperature	(1) Temperature: 85℃±2℃, Duration: 250h, Recovery time: 2h±0.5h		
1	Storage	(2) Temperature: –55 $^\circ\!\mathrm{C}\pm\!3^\circ\!\mathrm{C}$, Duration: 250h ,Recovery time: 2h±0.5h		
2	Humidity Test	Conditions: 60℃±2℃ , 90~95% RH Duration: 250h		
2	Thormal Shook	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.		
Δ	Vibration Eatique	Frequency of vibration: 10~55Hz Amplitude:1.5mm		
-	Vibration ratigue	Directions: X,Y and Z Duration: 2h		
5	Drop Test	Cycle time: 10 times Height: 1.0m		
		Temperature: 245 °C ±5 °CDuration: 3.0s5.0s		
6	Solder Ability Test	Depth: DIP2/3 , SMD1/5		
		(1)Thickness of PCB:1mm , Solder condition: 260 $^\circ\!\mathrm{C}\pm5^\circ\!\mathrm{C}$, Duration: 10±1s		
7	(2)Temperature of Soldering Iron: 350 $^\circ\!\mathrm{C}\pm10^\circ\!\mathrm{C}$, Duration: 3~4s ,			
		Recovery time : $2 \pm 0.5h$		

Recommended Reflow Soldering Diagram



340.00	MHz	SAW	Filter
340.00		0711	I IIICI

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.