

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.	:	SF0353
Pages	:	6
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Revision	:	1.0



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Checked by:	
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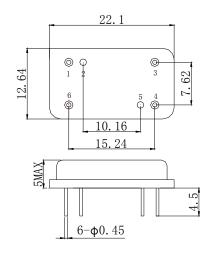
Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 600 KHz

Features

- RoHS compatible
- Package size 22.1x12.64x5.00mm³
- Package Code DIP2212J
- Electrostatic Sensitive Device(ESD)

Package Dimensions (Unit: mm)





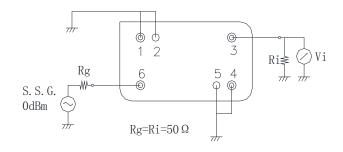
Pin Configuration

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

Marking Description

S	Trademark	
F	SAW Filter	
0353	Part Number	
•	Pin 1	
AXXXX	Year Code & Serial No.	

Test Circuit



Please read notes at the end of this document.

Performance

Maximum Rating

Item		Value	Unit
DC Voltage	V _{DC}	3	V
Operation Temperature	Т	-40 ~ +85	$^{\circ}$
Storage Temperature	T _{stg}	-55 ~ +125	${\mathbb C}$
RF Power Dissipation	Р	10	dBm

Electronic Characteristics

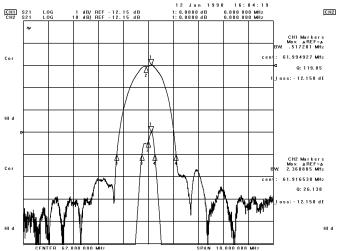
Test Temperature: $25^{\circ}C \pm 2^{\circ}C$

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

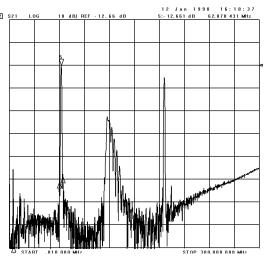
Item	Minimum	Typical	Maximum	Unit	
Center Frequency	fc	61.9	62.0	62.1	MHz
Insertion Loss(min)	IL		12.2	15.0	dB
3 dB Bandwidth	ВWзdВ	600.0	797.0		KHz
40 dB Bandwidth	BW _{40dB}		2.4	3.0	MHz
Absolute Attenuation	а				
5.00 -60.00 MHz		45.0	51.0		dB
64.00-100.00MHz		45.0	52.0		dB

Frequency Characteristics

Frequency Response



Frequency Response (wideband)



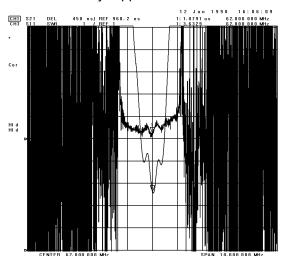
CH2 Markers Ma× 1:-63.915 dB 60.0000 MHz

2:- 61. 645 dE 64. 0000 MHz

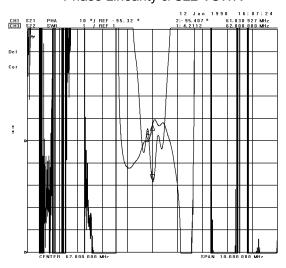
3:- 78.829 dB 108.000 MHz 4:- 93.377 dB 5.00000 MHz

CH1 Markers 1:-88.022 ° 62.0000 MHz

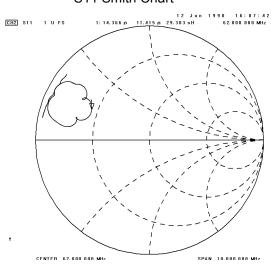
Delay Ripple & S11 VSWR



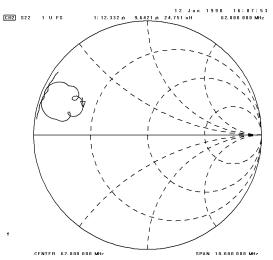
Phase Linearity & S22 VSWR



S11 Smith Chart



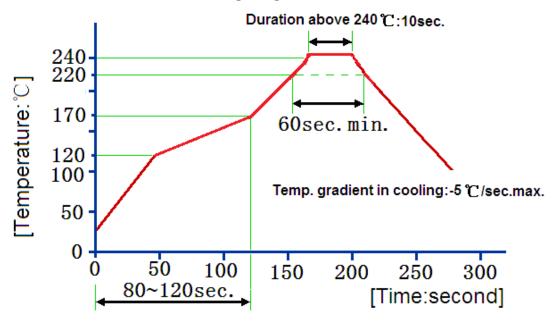
S22 Smith Chart



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	Thormal Chook	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.	
1	4 Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm	
4		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	Resistance to Soldering Heat	(2)Temperature of Soldering Iron: 350℃±10℃, Duration: 3~4s,	
		Recovery time: 2 ± 0.5h	

Recommended Reflow Soldering Diagram



Reflow cycles:3 cycles max.

62.00 MHz SAW Filter SF0353 600 KHz Bandwidth

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.

Please read notes at the end of this document.