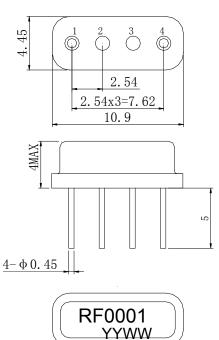
Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 320 kHz

Features

- RoHS compatible
- Package size 10.9x4.45x4.00mm³
- Package Code SC04-06
- Electrostatic Sensitive Device(ESD)

Package Dimensions (Unit: mm)





Pin Configuration

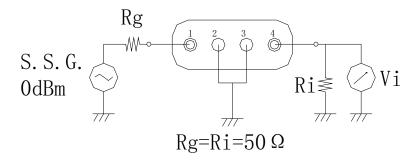
Pin No.	Description	
1	Input	
4	Output	
2,3	Ground	

Marking Description

R	Manufacturer
F	SAW Filter
0001	Part Number
YYWW	Year Code & Week Code

*Fig: If the products produced in 06th week of 2012, The year code & week code is 1206.

Test Circuit



Performance

Maximum Rating

Item		Value	Unit
DC Voltage	V _{DC}	3	V
Operation Temperature	Т	-40 ~ +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	T _{stg}	-55 ~ +125	$^{\circ}\!\mathbb{C}$
RF Power Dissipation	Р	15	dBm

Electronic Characteristics

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

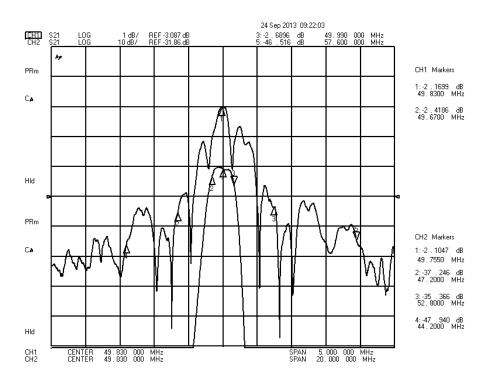
Terminating source impedance: 50Ω Terminating load impedance: 50Ω

Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		49.83		MHz
Insertion Loss(min)	IL		2.1	2.7	dB
Insertion Loss 49.67 - 49.99 M	Hz IL		2.5	4.0	dB
Amplitude Ripple (p-p) 49.67 - 49.99 N	инz \triangle а		0.5	1.5	dB
3dB Bandwidth	ВWзdВ		570	620	KHz
Absolute Attenuation	а				
DC-32.20 N	ИНz	45	50		dB
32.20 - 43.40 N	ИНz	40	42		dB
43.40 - 47.20 N	ИНz	30	35		dB
55.30 - 57.60 N	ЛНz	30	35		dB
57.60 - 82.30 MHz		40	42		dB

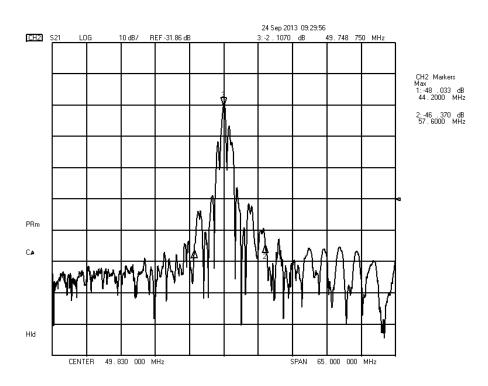
REYCONNS CHINA LIMITED

Frequency Characteristics

Frequency Response



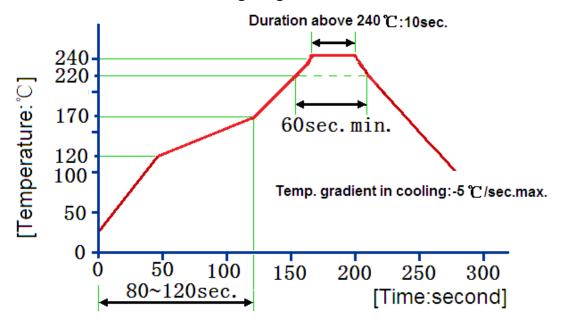
Frequency Response (wideband)



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

No.	Test item	Test condition		
1 Temperature Storage	(1) Temperature: 85℃±2℃, Duration: 250h, Recovery time: 2h±0.5h			
	(2) Temperature: –55℃±3℃ , Duration: 250h ,Recovery time: 2h±0.5h			
2	Humidity Test	Conditions: 60℃±2℃, 90~95% RH Duration: 250h		
2	0 7 10 1	Heat cycle conditions: TA=-55℃±3℃, TB=85℃±2℃, t1=t2=30min, Switch		
3 Thermal Shock	Thermal Shock	time: ≤3min, Cycle time: 100 times, Recovery time: 2h±0.5h.		
4	Vibration Fatigue	Frequency of vibration: 10~55Hz Amplitude:1.5mm		
4 Vibration Fatigu	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			
7 Resistance to Soldering Heat		(1)Thickness of PCB:1mm , Solder condition: 260 ℃±5 ℃ , Duration: 10±1s		
		(2)Temperature of Soldering Iron: 350℃±10℃,Duration: 3~4s,		
		Recovery time : 2 ± 0.5h		

Recommended Reflow Soldering Diagram



Reflow cycles:3 cycles max.

REYCONNS SAW Filter RF0001

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.