

**Application**

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 0.2 MHz

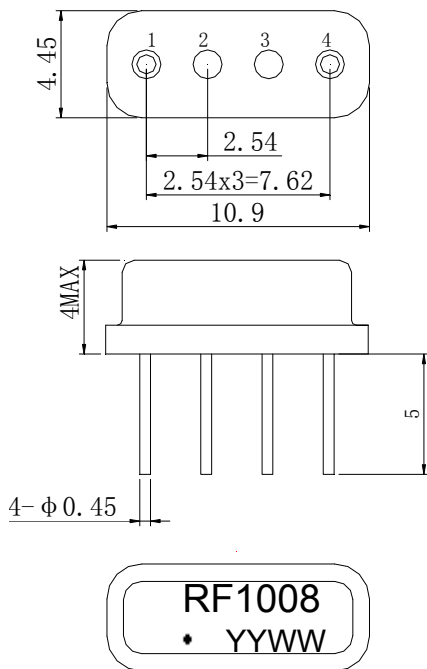
**Features**

- RoHS compatible
- Package size 10.9x4.45x5.00mm<sup>3</sup>
- Package Code SC04-06
- Electrostatic Sensitive Device(ESD)



SF1070Z

**Package Dimensions (Unit: mm)**



**Pin Configuration**

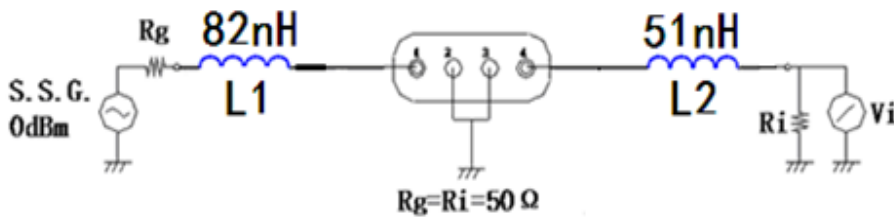
Pin No.	Description
1	Input
4	Output
2,3	Case Ground

**Marking Description**

RF	R	Trademark & Manufacturer
	F	SAW Filter
1008	Part Number	
●	Pin 1	
YYWW	Year Code & Week Code	

\*Fig: If the products produced in 06<sup>th</sup> week of 2015, The year code & week code is 1506.

**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	15	dBm

**Electronic Characteristics**

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

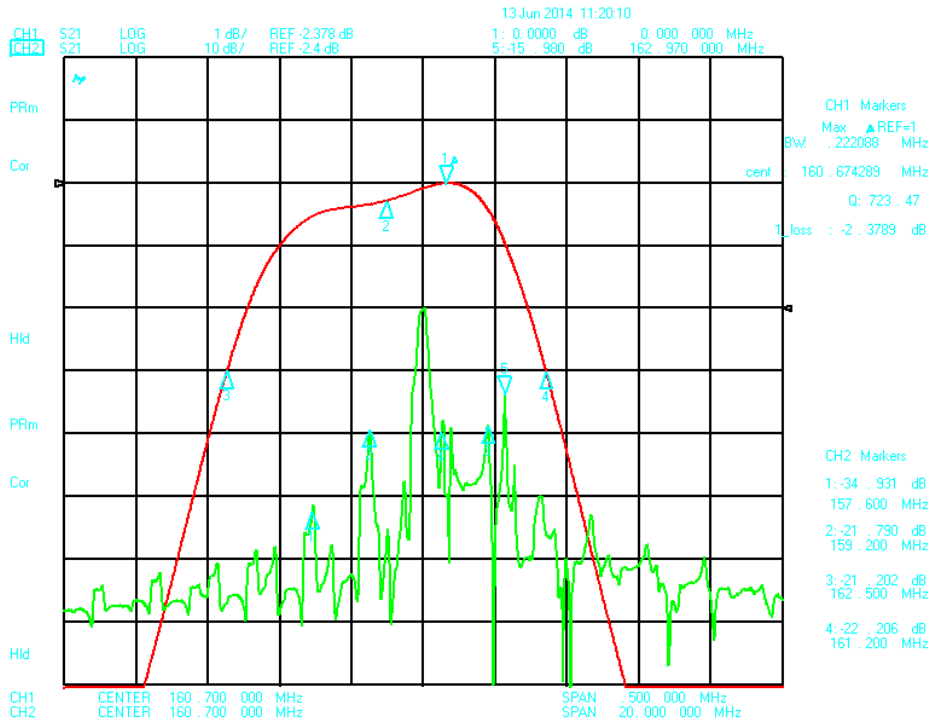
Terminating source impedance:  $50\Omega$

Terminating load impedance:  $50\Omega$

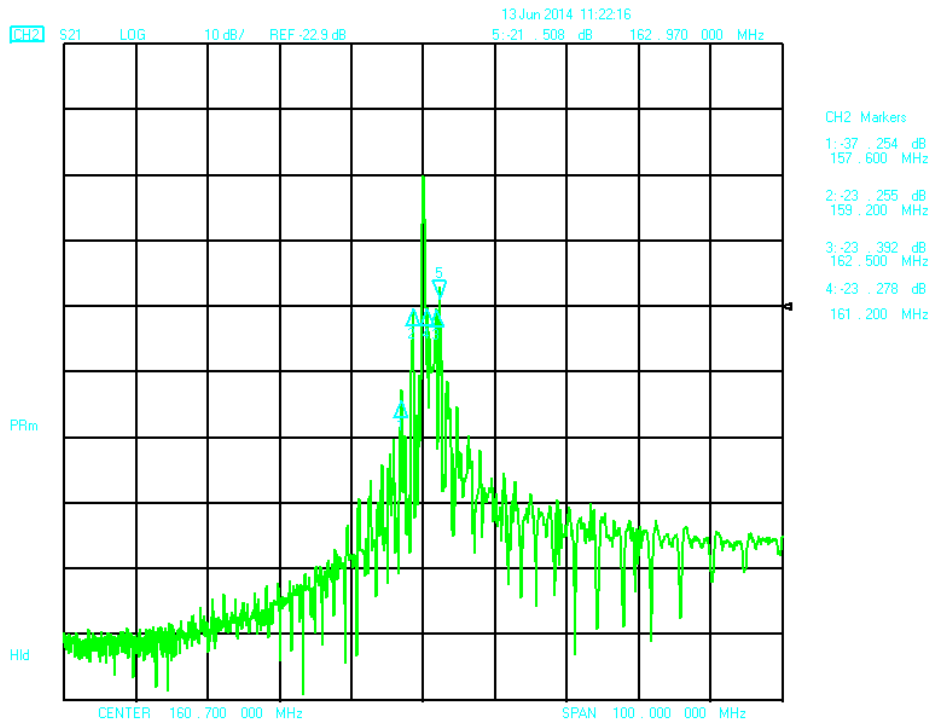
Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		160.70		MHz
Insertion Loss(min)	IL		2.3	4.0	dB
Amplitude Ripple (p-p)	$\Delta\alpha$		0.5	1.0	dB
3 dB Bandwidth	$BW_{3dB}$	0.18	0.2		MHz
Absolute Attenuation	$\alpha$				
	DC-155.70 MHz	50.0	55.0		dB
	155.70-157.60 MHz	30.0	32.0		dB
	159.20 MHz	18.0	21.0		dB
	161.20 -162.50 MHz	16.0	18.0		dB
	162.97.00 MHz		15.0		dB
	163.50 -170.70 MHz	28.0	30.0		dB
	170.70 -210.70 MHz	40.0	45.0		dB

Frequency Characteristics

Frequency Response



Frequency Response (wideband)





**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.