

NewJRC SAW FILTER

NSNJ2000

Application

PHS-IF $f_0=265.55\text{MHz}$ BW=0.2MHz

Electrical Specification: (Table 1)

The device characteristics are measured in the circuit shown in Fig.1.

Table 1. Electrical Specifications

Item		Spec.	Typ.
Nominal Center Frequency (f_0)		265.55MHz	
3dB Band Width (from f_0)		$\pm 130\text{kHz}$ min.	± 275 kHz
Insertion Loss at f_0		4.0dB max.	3.2dB
Ripple	$f_0 \pm 100\text{kHz}$	1.2dB max.	0.8dB
Group Delay Time Ripple	$f_0 \pm 100\text{kHz}$	1.2usec max.	0.5usec
Out of Band Rejection (Relative to Through Level)	$f_0 \pm 600\text{kHz}$	25dB min.	30dB
	$f_0 \pm 1.2\text{MHz}$	40dB min.	60dB
	$f_0 \pm 21.5 \sim 21.7\text{MHz}$	60dB min.	63dB

(Operating Temperature Range : $-20 \sim +85^\circ\text{C}$)

Maximum Rating: (Table 2)

Table2. Maximum Ratings

Item	Rating
Maximum Input Power	+0dBm
Maximum DC Voltage	7.5V
Operating Temperature Range	$-20 \sim +85^\circ\text{C}$
Storage Temperature	$-30 \sim +85^\circ\text{C}$

Mechanical Specifications: (Fig.2)

Package is designed as small as $3.0 \times 3.0 \times 1.15[\text{mm}^3]$ for SMD (Surface Mount Device) type.

Notice:

This part is electrostatic discharge sensitive and may be damaged by improper handling.

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<http://www.njr.co.jp/products/device/index.html>

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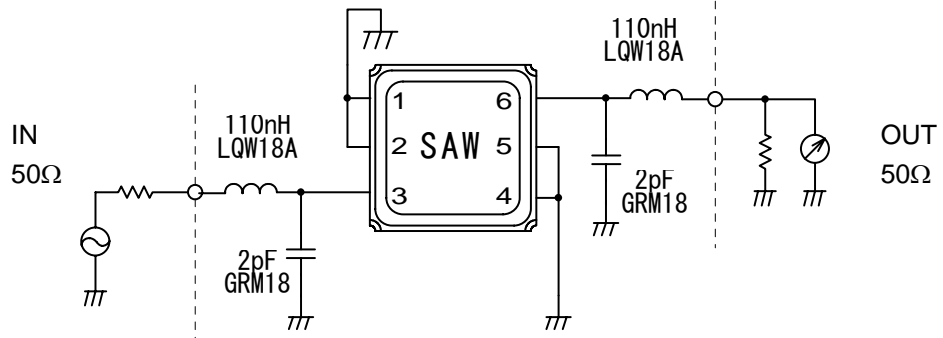


Fig.1 Measuring circuit

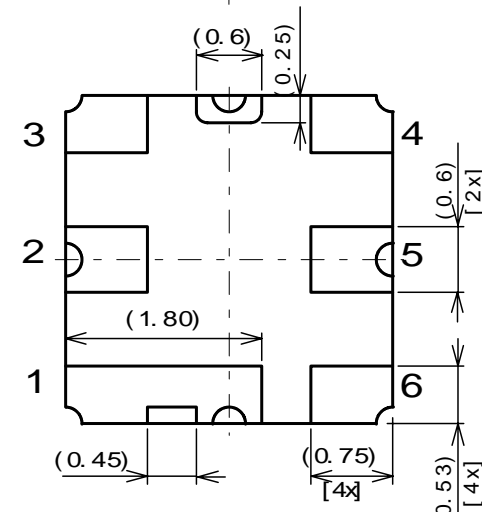
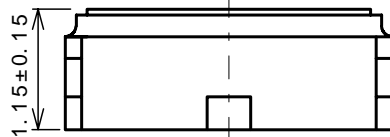
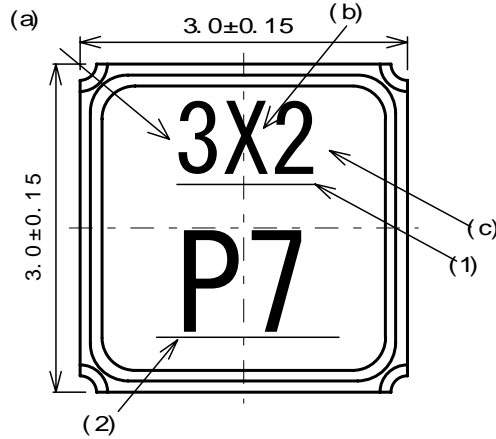


Fig.2 Package dimensions (in mm)

Marking

(1) Lot Number

(a) Year

(b) Month

*Oct.--- X

Nov.--- Y

Dec.--- Z

(c) Date

1-9--- 0

10-19--- 1

20-31--- 2

(2) Part Number Mark

Pin no.	Connection
1	GND
2	GND
3	IN/OUT
4	GND
5	GND
6	OUT/IN

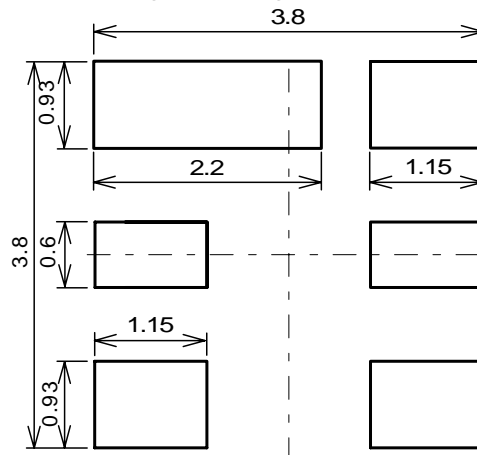


Fig.3 Desirable land area (in mm)

Notice

1. Use this component within operating temperature range. It might not be satisfied with electrical specification without operating temperature range. When it is used less than -20°C or more than $+85^{\circ}\text{C}$, it might be a cause of degradation or destruction of the component. Even if it endures during a short time, it causes degradation of qualification.
2. When soldering iron is used, solder with the temperature at the tip of soldering iron: 350°C max., the time of soldering: 10 seconds max., the power of soldering iron: 30W max..
3. Notice that the allowed time of soldering with soldering iron is accumulated time, when soldering is repeated.
4. As rapid temperature change for cleaning after reflow soldering might be a cause of destruction clean this component after confirming that temperature of this component goes down to room temperature.
5. Confirm that there are not any influence for qualification to this component in mounting on PCB when this component is cleaned.
6. As it might be a cause of degradation or destruction to apply static electricity to this component, do not apply static electricity or excessive voltage while assembling and measuring. And do not transport this component with bare hand.
7. As it might be a cause of degradation or destruction to apply D.C. voltage between each terminal, apply D.C. voltage 7.5V max. in actual circuit.

Note

1. This specification specifies the quality of this component as a single unit. Make sure that this component is evaluated and confirmed against this specification when it is mounted to your products.

