New JRC SAW FILTER NSNJ2004

Application

428MHz Low Power Transceiver

Electrical Specification: (Table 1)

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

Table 1. Electrical Specifications

Item		Spec.	Тур.
Input and Output Impedance		-	50Ω
Nominal Center Frequency (f0)		-	428MHz
Insertion Loss	426~430MHz	3.5dB max.	1.8dB
Response Variation	426~430MHz	1.5dB max.	0.2dB
VSWR	426~430MHz	2.0 max.	1.4
Out of Band Rejection	10~370MHz	50dB min.	60dB
(Relative to	406.6MHz (f0-21.4MHz)	50dB min.	63dB
Through Level)	449.4MHz (f0+21.4MHz)	40dB min.	51dB
	455~580MHz	50dB min.	63dB
	580~1000MHz	45dB min.	55dB

(Operating Temperature Range: -40~+85°C)

Maximum Rating: (Table 2)

Table2. Maximum Ratings

Item	Rating
Maximum Input Power	+10dBm
Maximum DC Voltage	5V
Operating Temperature Range	-40~+85°C
Storage Temperature	-40~+85°C

Mechanical Specifications: (Fig.2)

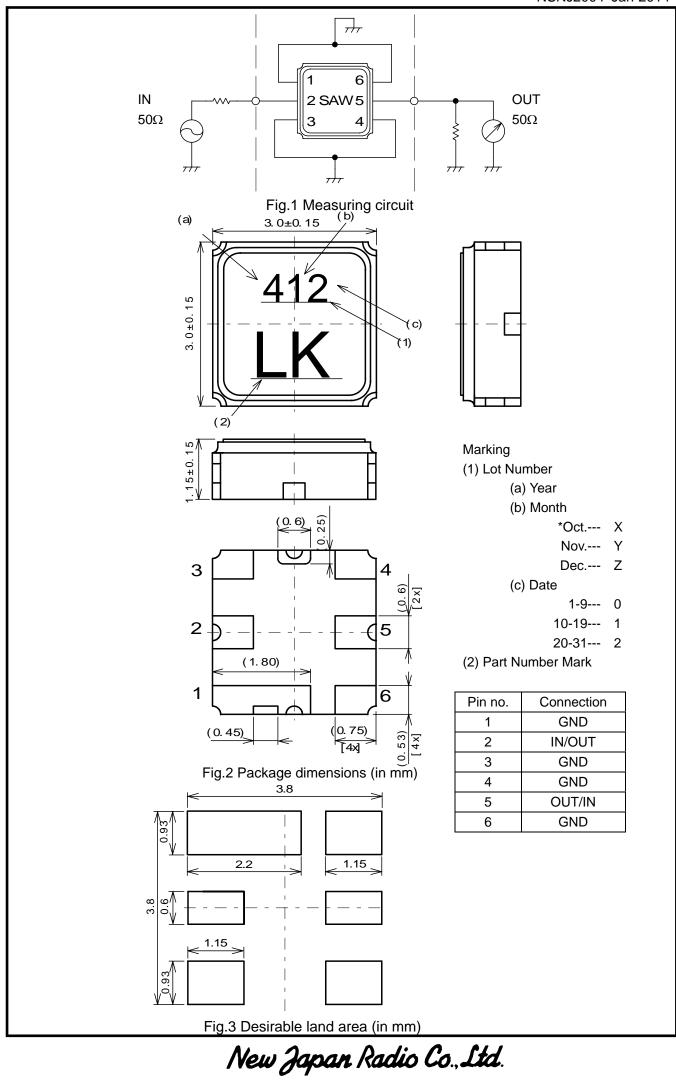
Package is designed as small as 3.0x3.0x1.15[mm³] for SMD (Surface Mount Device) type.

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 (Japanese)
http://www.njr.com/products/device/index.html (English)

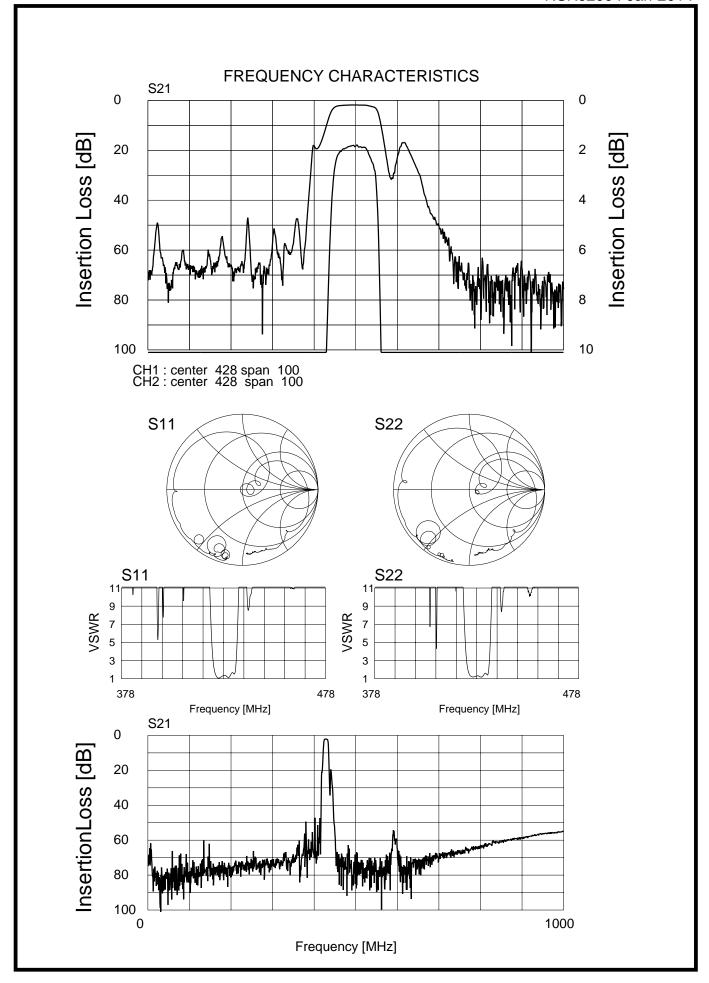


Notice

- 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 -40°C or more than +85°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.
- As it might be a cause of degradation of 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 5V max. in actual circuit.

Note

 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.



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