## New JRC SAW FILTER NSTS9118

Application

R.K.E f0=433.92MHz BW=0.4MHz

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)		433.92MHz	
Insertion Loss		2.5dB max.	1.8dB
Response Variation	433.72~434.12MHz	1.5dB max.	0.7dB
Input and Output VSWR		2.5 max.	1.3
Out of Band Rejection	423.92MHz(f0-10MHz)	25dB min.	40dB
(Relative to Through Level)	443.92MHz(f0+10MHz)	22dB min.	28dB
	10~295MHz	50dB min.	67dB
	470~585MHz	50dB min.	55dB
	585~630MHz	40dB min.	48dB
	630~710MHz	50dB min.	60dB
	710~770MHz	40dB min.	60dB
	1000~1500MHz	40dB min.	47dB
	2000~2500MHz	15dB min.	22dB

(Operating Temperature Range: -40~+105°C)

Maximum Rating: (Table 2)

Table 2. Maximum Ratings

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Item	Rating	
Maximum Input Power	+20dBm	
Maximum DC Voltage	7.5V	
Operating Temperature Range	-40~+105°C	
Storage Temperature	-40~+105°C	

Mechanical Specifications: (Fig.2)

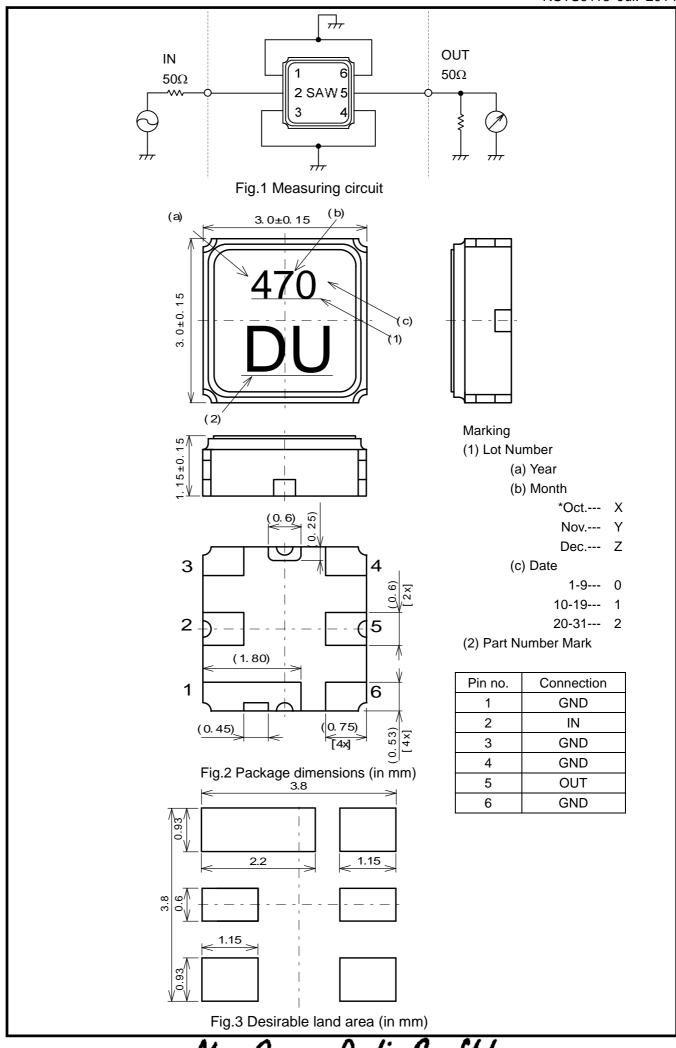
Package is designed as small as 3.0x3.0x1.15 [mm<sup>3</sup>] for SMD (Surface Mount Device) type.

## 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 http://www.njr.com/products/device/index.html



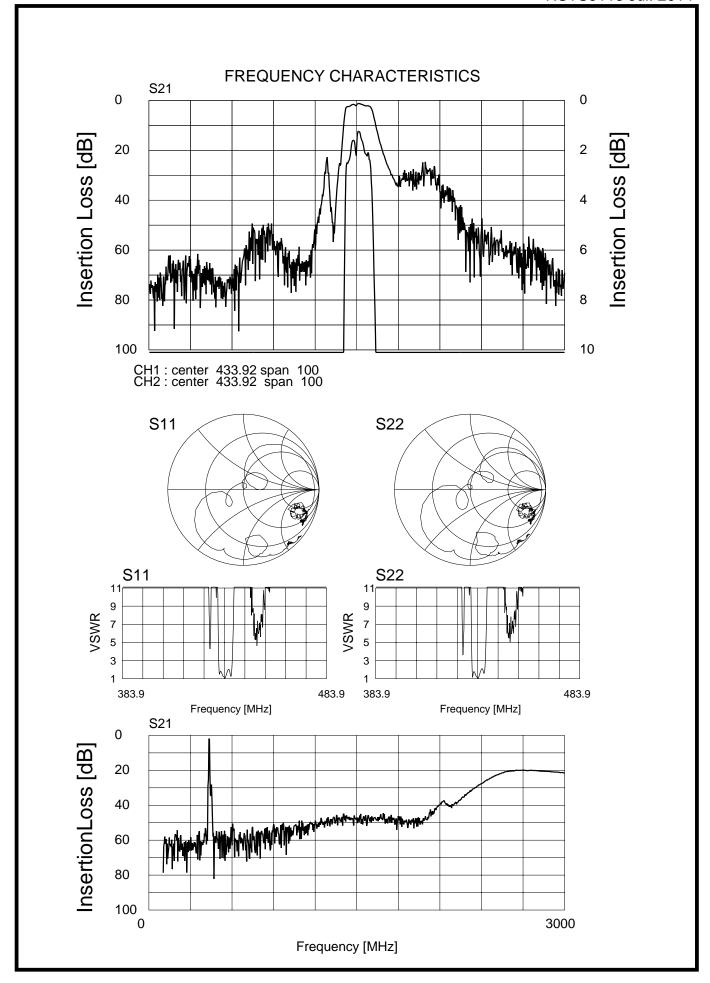
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## **Notice**

- 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 +105°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 influences 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 7.5V 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.
- 2. The information contained herein may be changed without prior notice. It is therefore advisable to contact New Japan Radio Company before proceeding with the design of equipment incorporating this product.
- 3. The products are designed to be used with ordinary electronic equipment (data and communications equipment, office equipment, audio-video equipment, measuring instruments, etc). New Japan Radio Company does not assume any liability for the case using the products with the application required high reliability or safety extremely (such as space equipment, sea-bottom equipment, medical equipment etc). When intending to use any our product please contact our sales representatives in advance.



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