

JRC SAW FILTER

NSVS614

Application

429.42MHz 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.	Typ.
Input and Output Impedance		50Ω	-
Nominal Center Frequency (f0)		429.42MHz	-
Insertion Loss	428.92~429.92MHz	3.5dB max.	2.0dB
Response Variation	428.92~429.92MHz	1.5dB max.	0.3dB
Input and Output VSWR	428.92~429.92MHz	2.5 max.	1.2
Out of Band Rejection	386.62 MHz	50dB min.	64dB
(Relative to Through Level)	408.02MHz	50dB min.	60dB

(Operating Temperature Range: -10~+60°C)

Maximum Rating: (Table 2)

Table 2. Maximum Ratings

Item	Rating
Maximum Input Power	+20dBm
Maximum DC Voltage	7.5V
Operating Temperature Range	-10~+60°C
Storage Temperature	-20~+70°C

Mechanical Specifications: (Fig.2)

Package is designed as small as 3.5x3.5x1.0[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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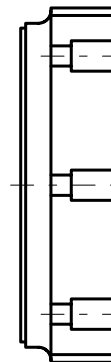
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<http://www.jrc.co.jp/jp/product/device/saw/index.html> (Japanese)

<http://www.jrc.co.jp/eng/product/saw/index.html> (English)

Fig.1 Measuring circuit diagram. The diagram shows a square component with rounded corners and a double-line border. The overall width and height are both labeled as 3.5 ± 0.2 . The component features two markings: "J19" in the upper half and "QF" in the lower half. A horizontal dashed line separates the two markings. Four arrows point to specific features: (a) points to the top-left corner, (b) points to the top-right corner, (2) points to the horizontal dashed line, and (3) points to the bottom edge. The text "J19" and "QF" are centered horizontally. The text "J19" is in a bold, sans-serif font, and "QF" is in a larger, bold, sans-serif font.



Dec.--- Z

Figure 1: Dimensions of the PCB layout. The diagram shows a top-down view of a PCB with a central vertical strip and two side sections. Dimensions are given in millimeters. The total width is 4.3 mm. The central strip is 0.8 mm wide. The left and right sections are 1.3 mm wide. The distance between the centerlines of the three horizontal components on each side is 1.27 mm. A central circular via hole is labeled 'Via Hole(Φ 0.3)'.

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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 -10°C or more than +60°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.
2. The information contained herein may be changed without prior notice. It is therefore advisable to contact 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). 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.

