

JRC SAW FILTER

NSVS1107

Application

449.7MHz SAW FILTER

Electrical Specification: (Table 1)

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

Table 1. Electrical Specifications

Item	Spec.	
Input and Output Impedance	50Ω	
Nominal Center Frequency (f0)	449.7MHz	
Insertion Loss	449.2~450.2MHz	3.5dB max.
Response Variation	449.2~450.2MHz	1.5dB max.
Input and Output VSWR	449.2~450.2MHz	2.5 max.
Out of Band Rejection (Relative to Through Level)	428.3 MHz 471.1 MHz	50dB min. 40dB min.

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 3.0x3.0x1.15[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.jrc.co.jp/jp/product/device/saw/index.html> (Japanese)

http://www.jrc.co.jp/eng/product/comm/device/saw/saw_top_e.html (English)

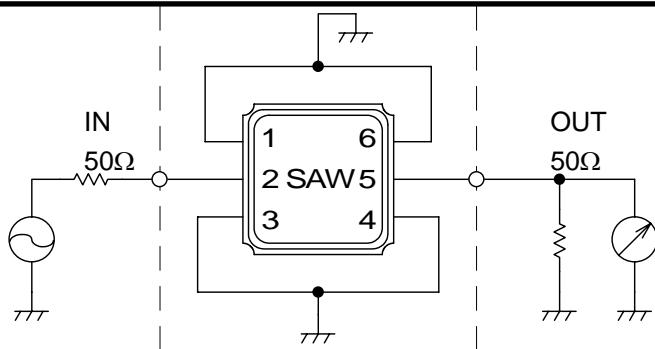
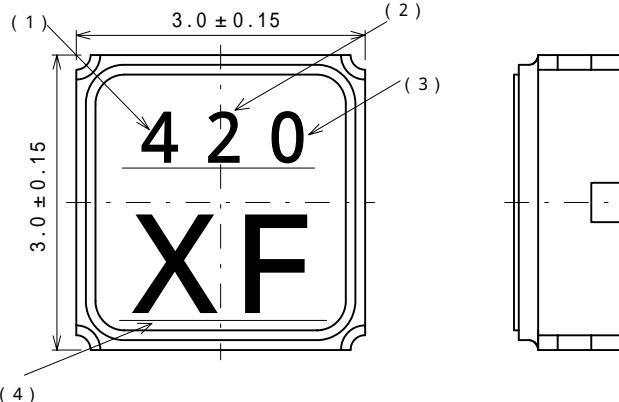


Fig.1 Measuring circuit



1.15 ± 0.15

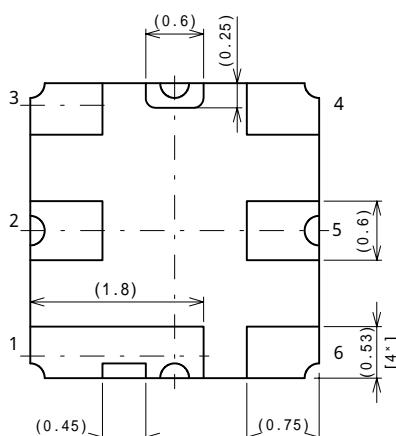


Fig.2 Package dimensions (in mm)

No.	接続
1	G N D
2	I N / O U T
3	G N D
4	G N D
5	O U T / I N
6	G N D

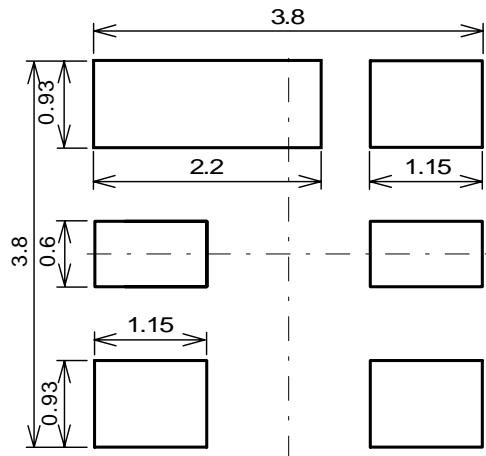


Fig.3 Desirable land area (in mm)

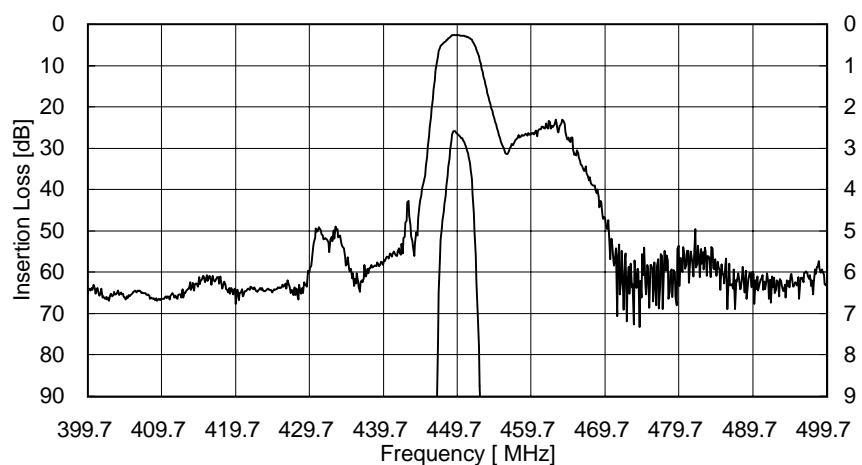
Notice

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 -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 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.

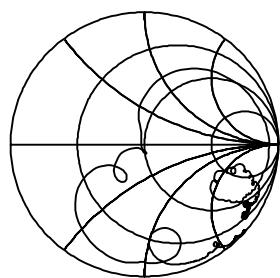
Note

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.

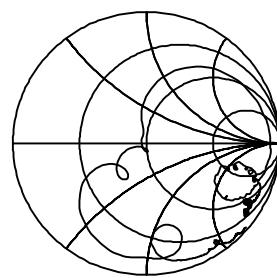
449.7MHz SAW Filter
FREQUENCY CHARACTERISTICS



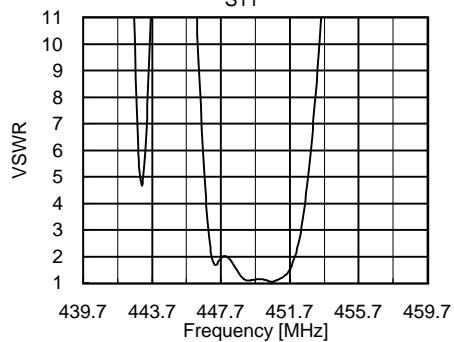
S11



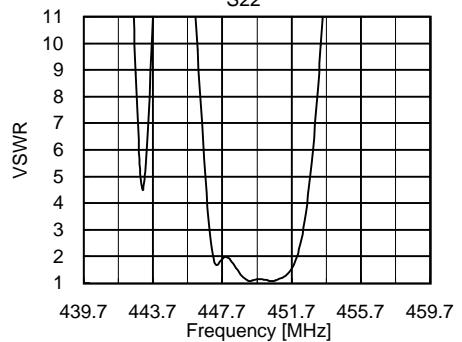
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S11



S22



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