

# JRC SAW FILTER

## NSVS783

Application

**1575.42MHz GPS**

Electrical Specification: (Table 1)

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

Table 1. Electrical Specifications

Item		Spec.	Typical
Input and Output Impedance		-	50Ω
Nominal Center Frequency (f0)		-	1575.42MHz
Insertion Loss	1574.42~1576.42MHz	3.5dB max.	3.0dB
Response Variation	1574.42~1576.42MHz	1.5dB max.	1.0dB
Out of Band Rejection (Relative to Through Level)	1475.42MHz	40dB min.	45dB
	1535.42MHz	30dB min.	35dB
	1615.42MHz	20dB min.	28dB
	1675.42MHz	40dB min.	44dB

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

Maximum Rating: (Table 2)

Table 2. Maximum Ratings

Item	Rating
Maximum Input Power	+20dBm
Maximum DC Voltage	7.5V
Operating Temperature Range	-40~+85°C
Storage Temperature	-50~+100°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.jrc.co.jp/product/comm/deveice/saw/saw\\_top.html](http://www.jrc.co.jp/product/comm/deveice/saw/saw_top.html) (Japanese)

[http://www.jrc.co.jp/product/comm/device/saw/saw\\_top\\_e.html](http://www.jrc.co.jp/product/comm/device/saw/saw_top_e.html) (English)

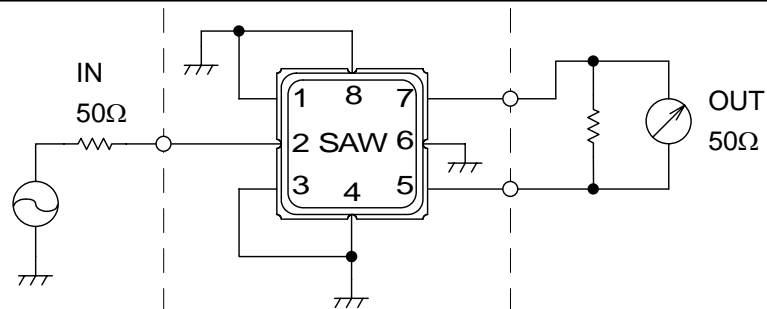


Fig.1 Measuring circuit

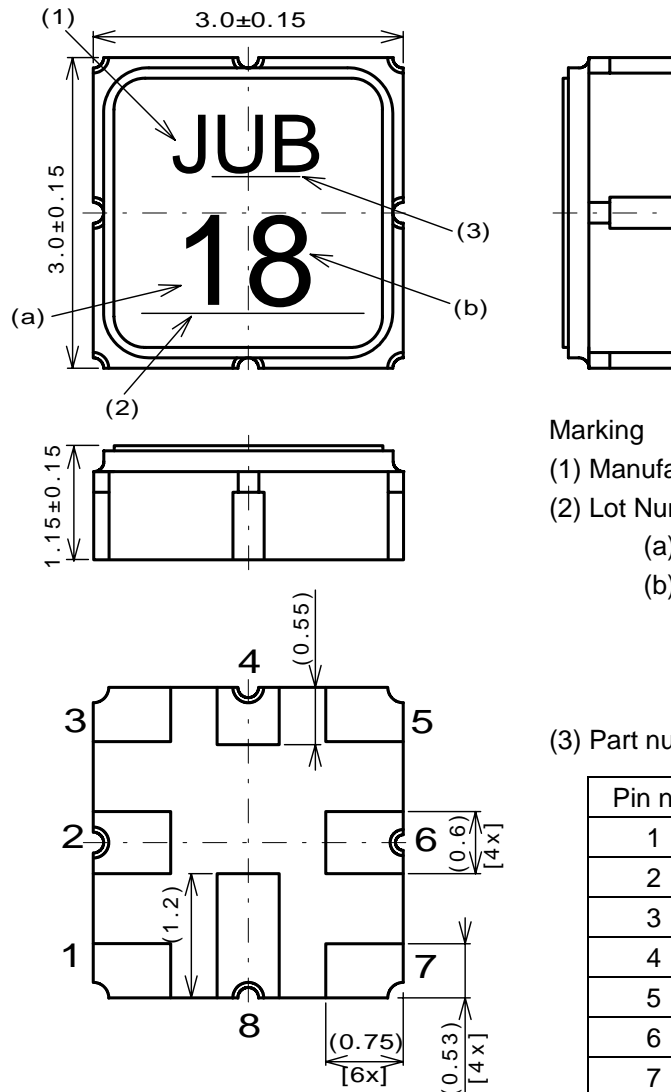


Fig.2 Package dimensions (in mm)

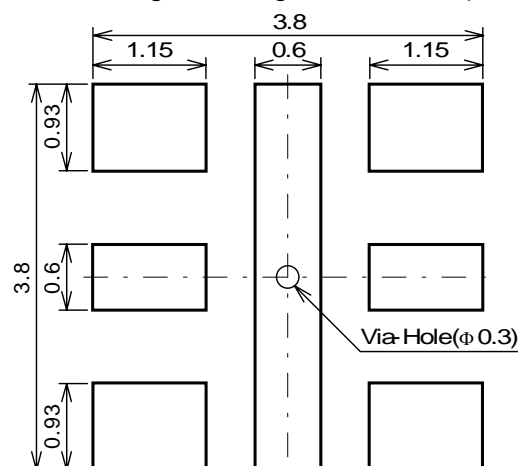


Fig.3 Desirable land area (in mm)

## Marking

(1) Manufacture's Mark

(2) Lot Number

(a) Year

(b) Month

\*Oct.--- X

Nov.--- Y

Dec.--- Z

(3) Part number Mark

Pin no.	Connection
1	GND
2	IN, Unbalanced
3	GND
4	GND
5	OUT, Balanced
6	GND
7	OUT, Balanced
8	GND

**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 -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.
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.

GPS 1575.42MHz SAW FILTER  
NSVS783  
FREQUENCY CHARACTERISTICS

