

# NewJRC SAW FILTER

## NSTS9120

Application

**ITS 760MHz Low Loss Type**

Electrical Specification: (Table 1)

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

Item	Spec.	Typical	Temp.
Input and Output Impedance		50Ω	
Nominal Center Frequency (f0)		760MHz	
Insertion Loss	755.5~764.5MHz	2.5dB max.	25 ± 5°C
		4.0dB max.	-40~+85°C
Out of Band Rejection (Relative to Through Level)	750MHz	13dB min.	25 ± 5°C
		7dB min.	-40~+85°C
	770MHz	6dB min.	25 ± 5°C
		3dB min.	-40~+85°C

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

Maximum Rating: (Table 2)

Table2. Maximum Ratings

Item	Rating
Maximum Input Power	+20dBm
Maximum DC Voltage	7.5V
Operating Temperature Range	-40~+85°C
Storage Temperature	-40~+95°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>

(Japanese)

<http://www.njr.com/products/device/index.html>

(English)

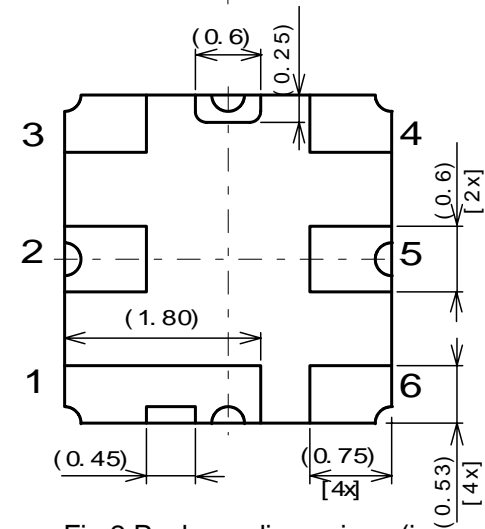
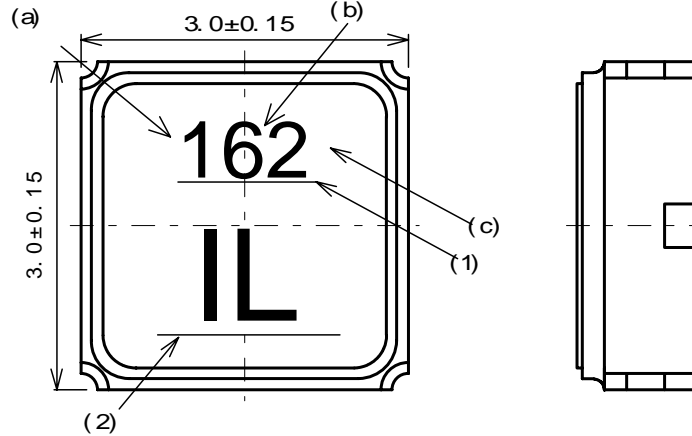
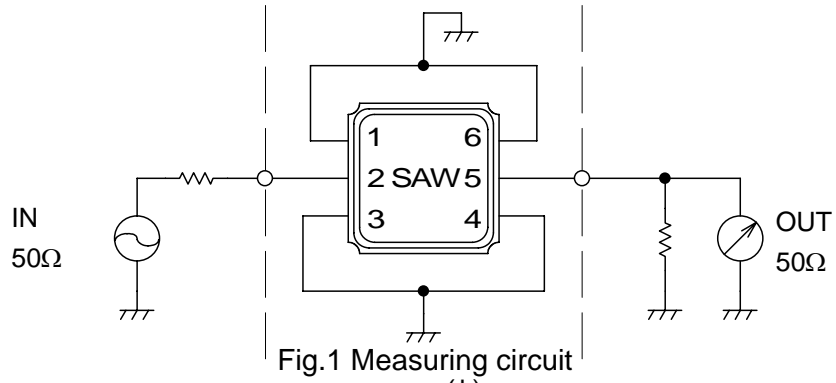


Fig.2 Package dimensions (in mm)

Marking

(1) Lot Number

(a) Year

(b) Month

\*Oct.--- X

Nov.--- Y

Dec.--- Z

(c) Date

1-9--- 0

10-19--- 1

20-31--- 2

(2) Part Number Mark

Pin no.	Connection
1	GND
2	IN/OUT
3	GND
4	GND
5	OUT/IN
6	GND

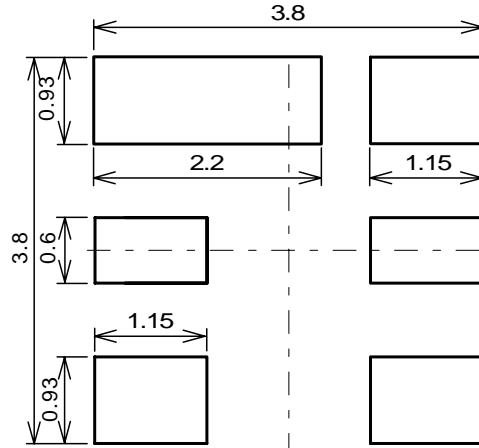


Fig.3 Desirable land area (in mm)

**Notice**

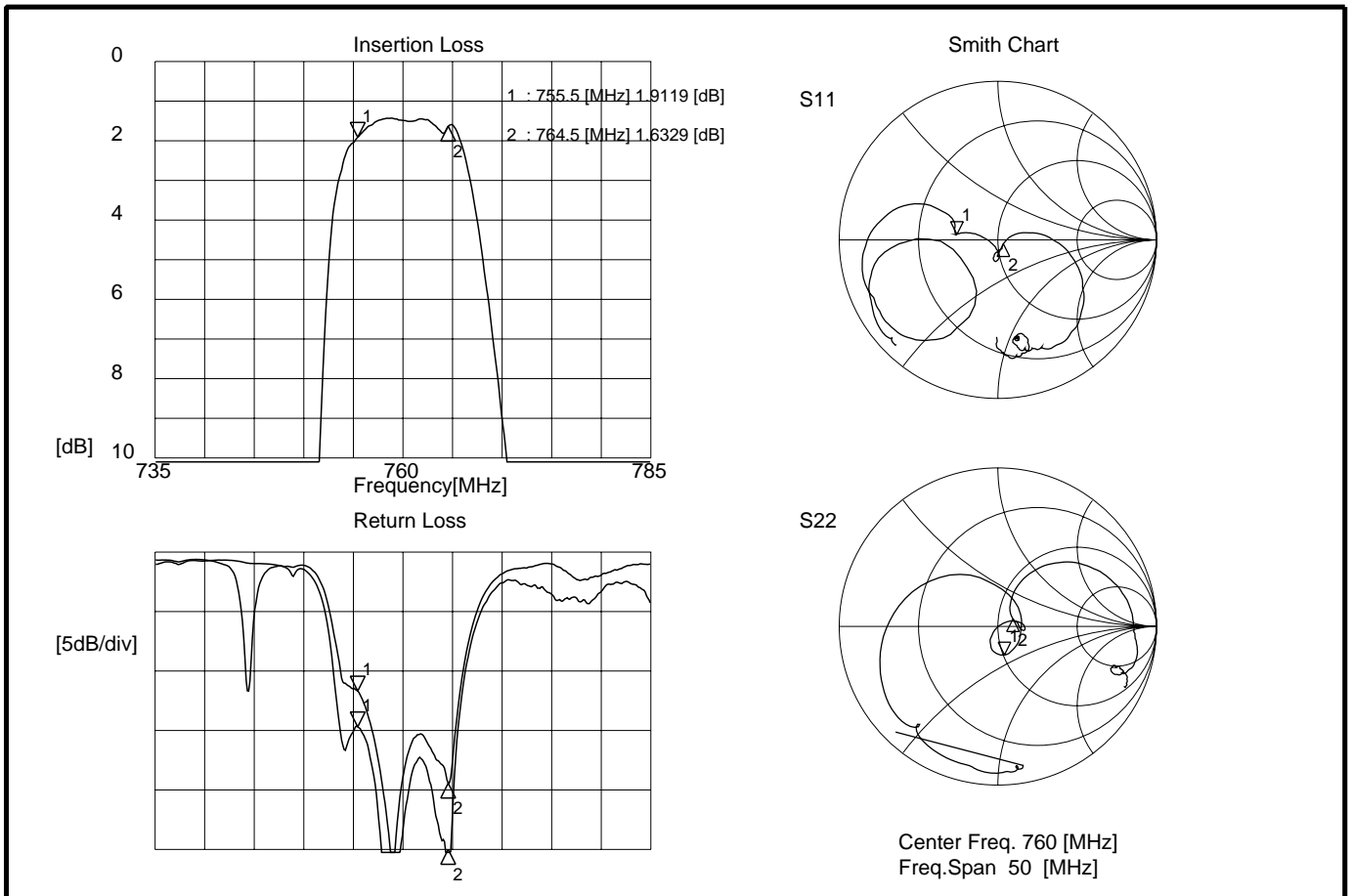
1. Use this component within operating temperature range. It might not be satisfied with electrical specification without operating temperature range. When it is used less than  $-30^{\circ}\text{C}$  or more than  $+85^{\circ}\text{C}$ , it might be a cause of degradation or destruction of the component. 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:  $350^{\circ}\text{C}$  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**

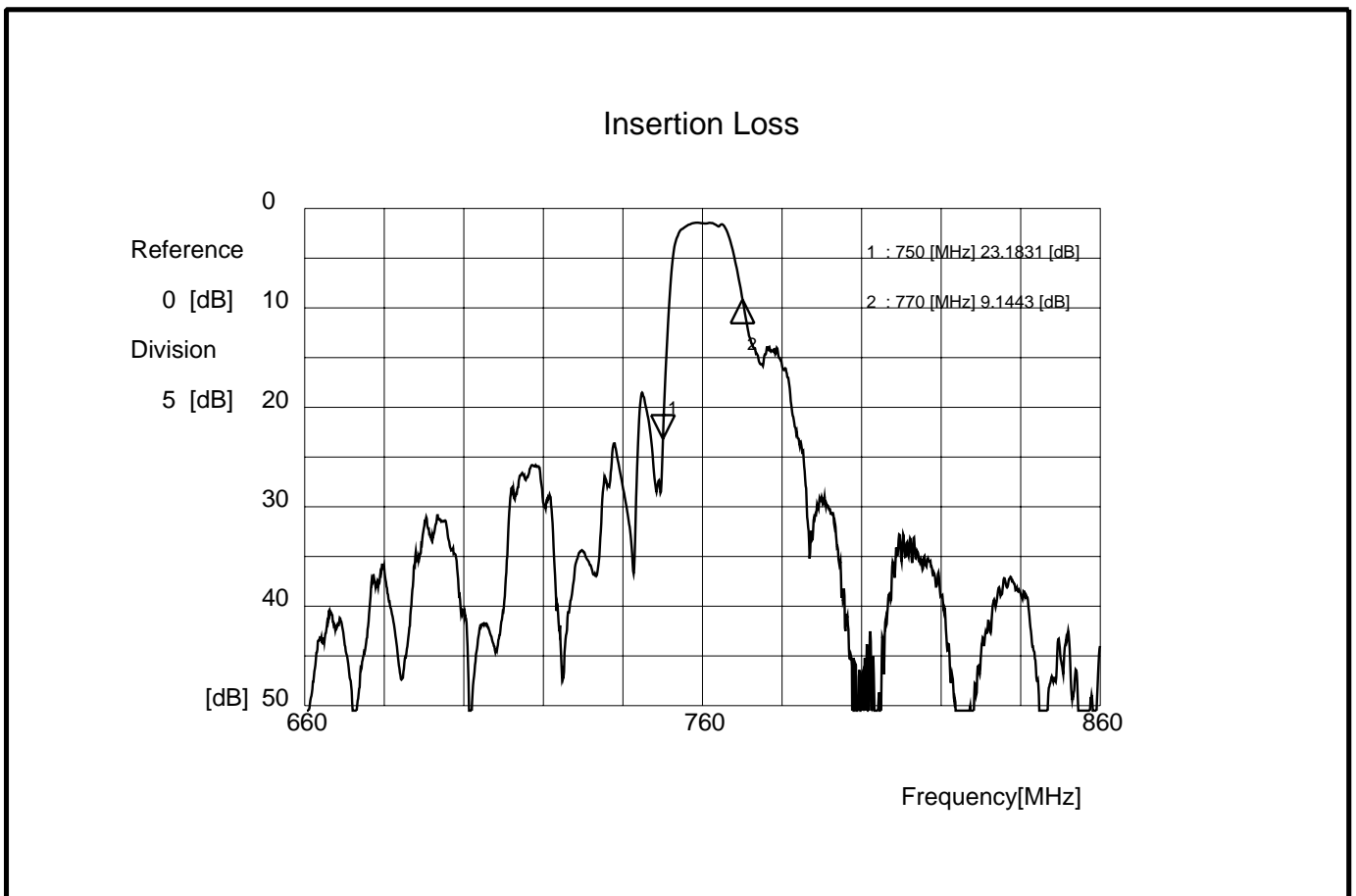
1. This specification specifies the quality of this component as a single unit. Make sure that this component is evaluated and confirmed against this specification when it is mounted to your products.

**Others**

1. About RoHS , REACH and Pb-free reflow  
This product is compliant to RoHS and REACH directive and Pb-free reflow-profile.



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