

# JRC SAW FILTER

## NSVS1094

**UNDER  
DEVELOPMENT**

Application  
**248.45MHz PHS Base-station**

Electrical Specification: (Table 1)

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

Table 1. Electrical Specifications

Item	Spec.	Typ.
Nominal Center Frequency (f0)	248.45MHz	-
3dB Band Width	$\pm 130\text{kHz}$	-
Insertion Loss at f0	4.0dB	3.3dB
Ripple f0 $\pm 100\text{kHz}$	0.85dB	0.40dB
Group Delay Time Ripple f0 $\pm 100\text{kHz}$	0.85us	0.40dB
Attenuation f0 $\pm 600\text{kHz}$	25dB	30dB
	f0 $\pm 10.7\text{MHz}$	55dB
	f0 $\pm 21.4\text{MHz}$	60dB
		65dB

Maximum Rating: (Table 2)

Table 2. Maximum Ratings

Item	Rating
Maximum Input Power	+5dBm
Operating Temperature Range	-30~+85°C
Storage Temperature	-40~+95°C

Mechanical Specifications: (Fig.2)

Package is designed as small as 3.5x3.5x1.1[mm<sup>3</sup>] for SMD (Surface Mount Device) type.

**Notice:**

This part is electrostatic discharge sensitive and may be damaged by improper handling.

Communications Equipment Division  
Communications Equipment Marketing Department

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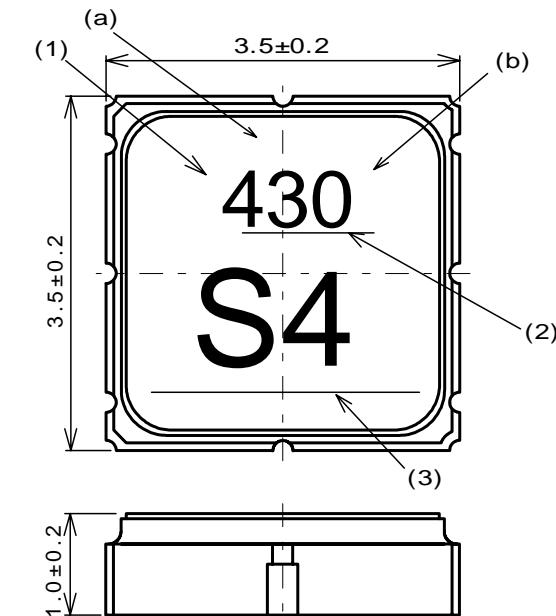
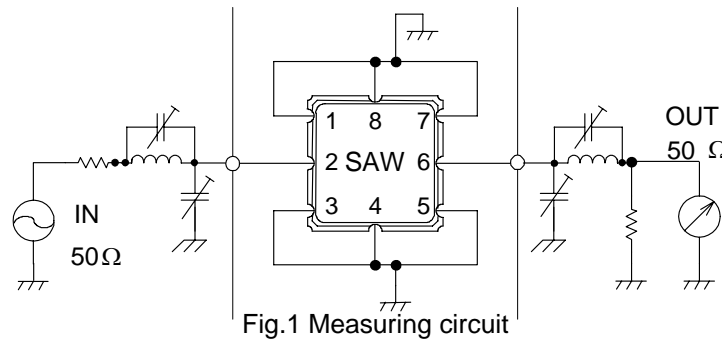
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<http://www.jrc.co.jp/jp/product/device/saw/index.html> (Japanese)

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



## Marking

(1) Manufacture's Mark

(2) Lot Number

(a) Year

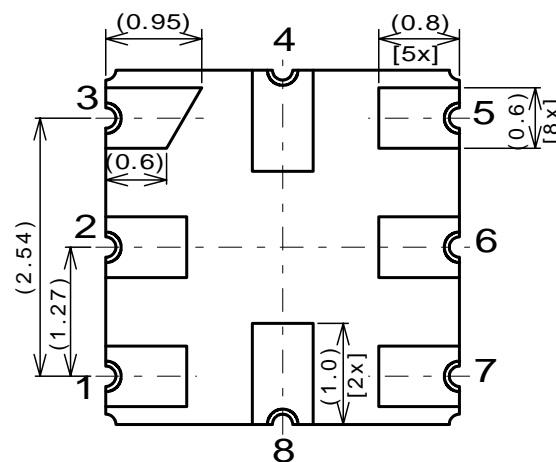
(b) Month

\*Oct.--- X

Nov.--- Y

Dec.--- Z

(3) Part number Mark



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

Fig.3 Desirable land area (in mm)

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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  $-30^{\circ}\text{C}$  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.

### 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.

UNDER  
DEVELOPMENT

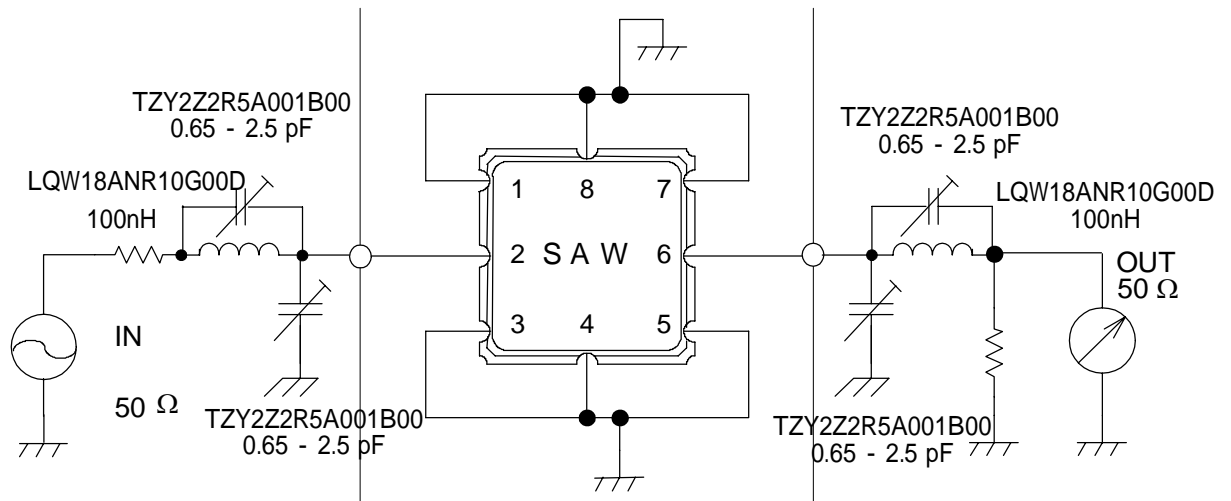
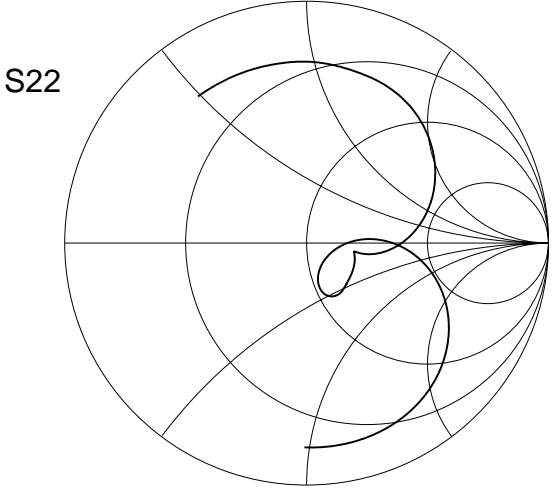
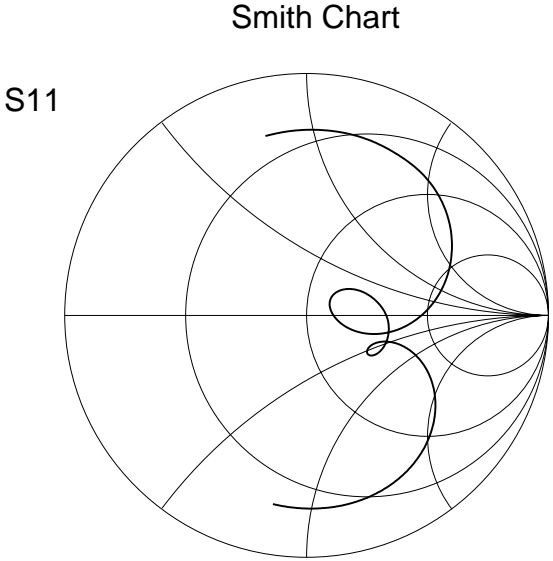
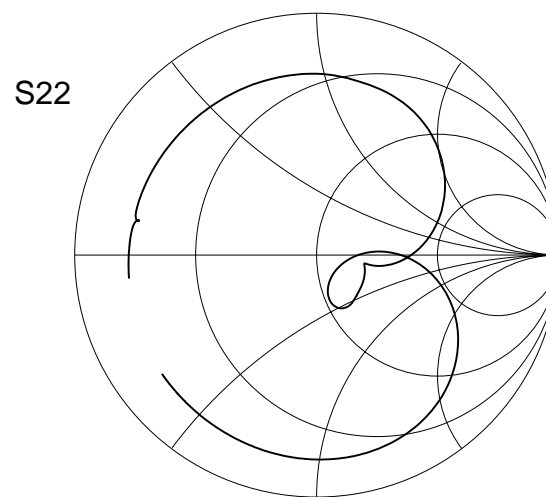
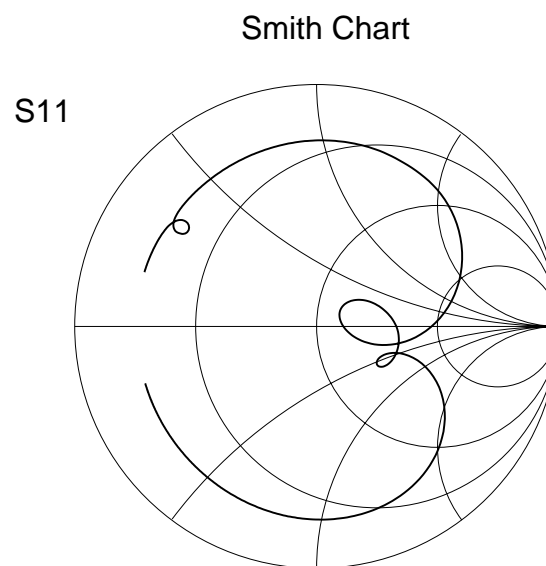
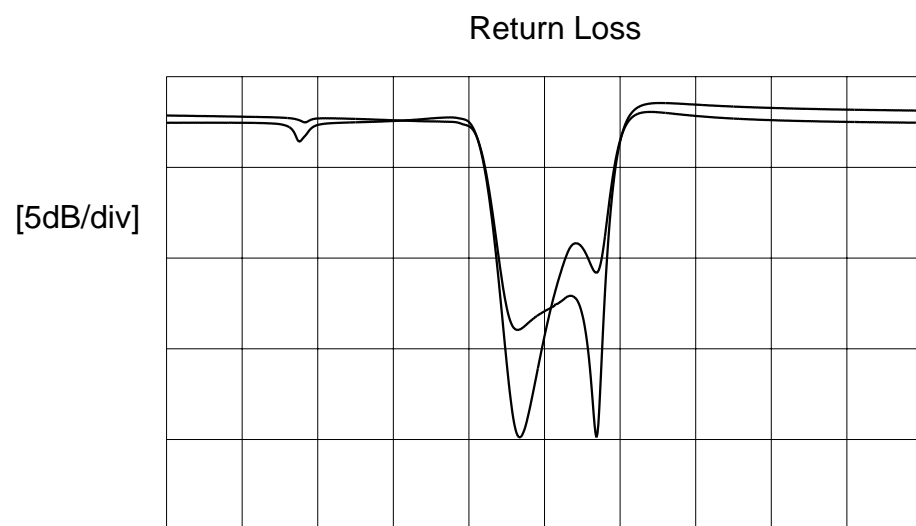
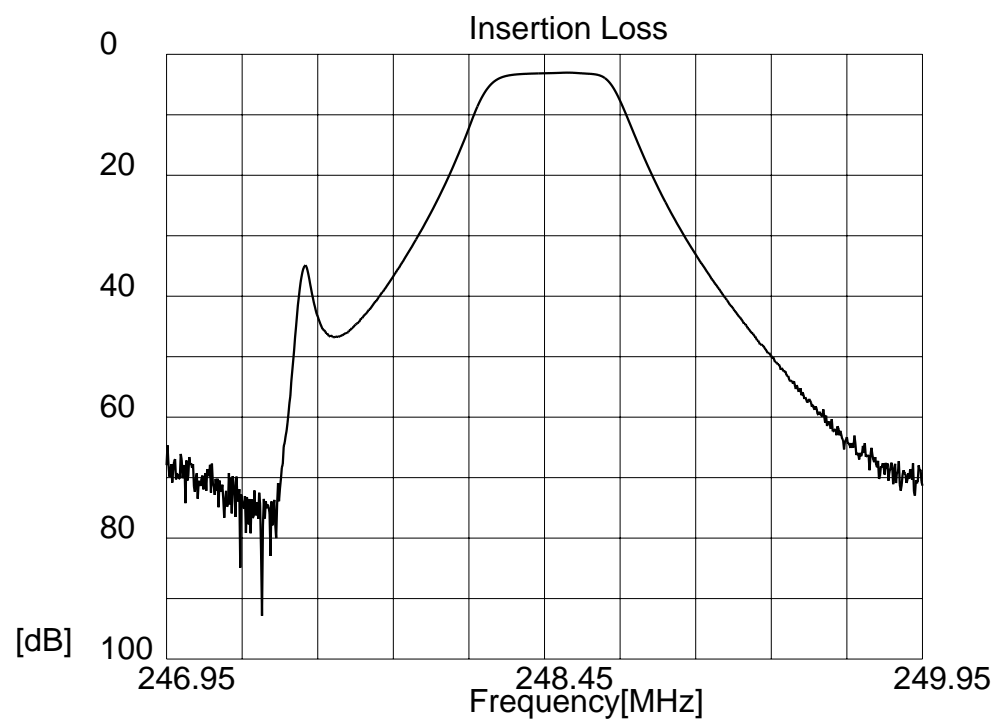


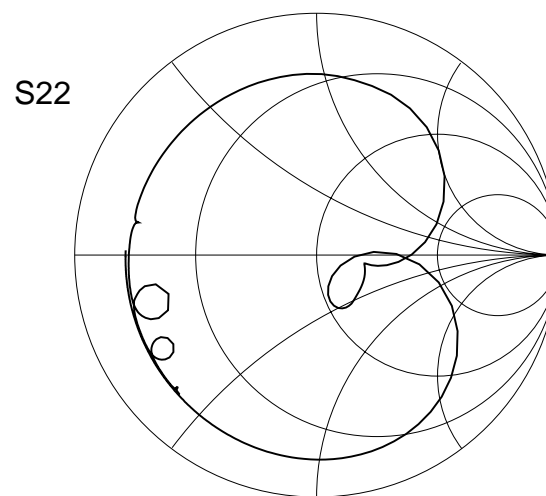
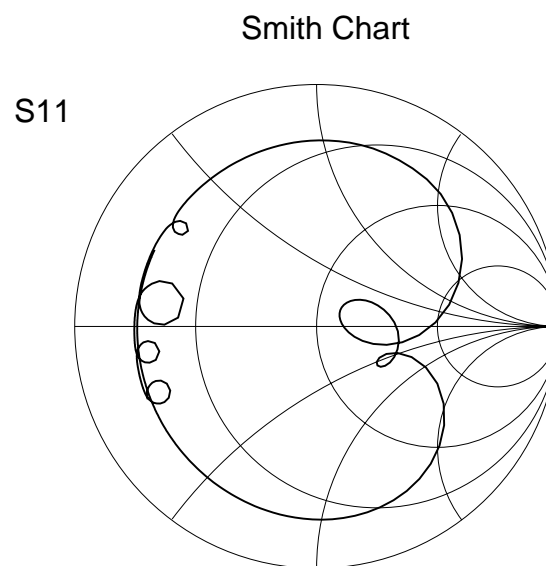
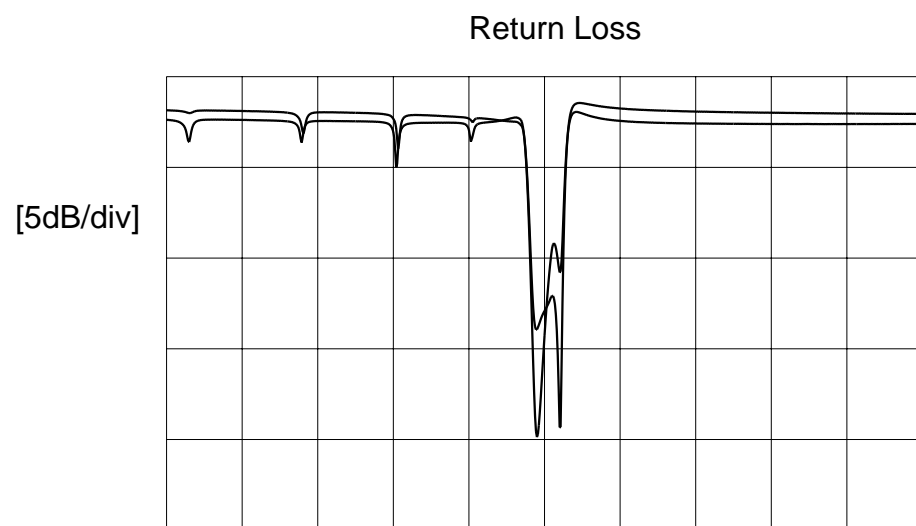
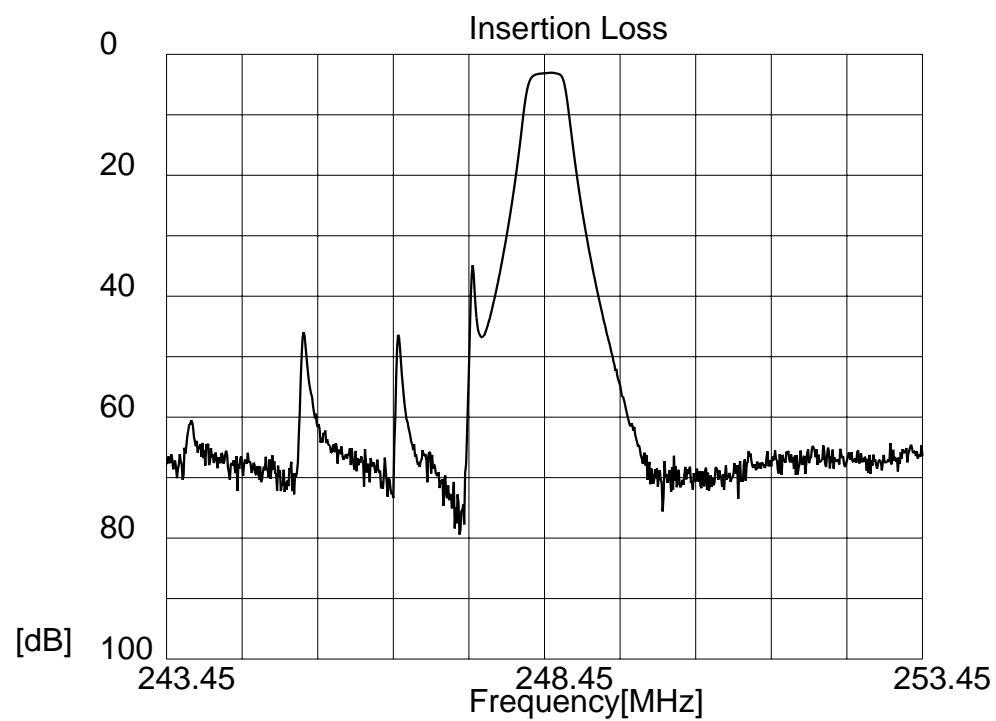
Fig. 4



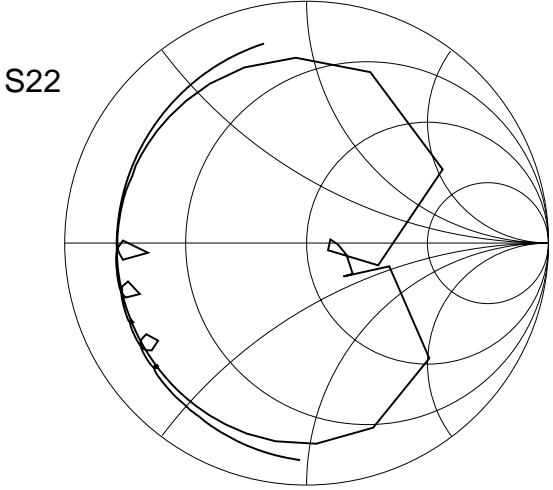
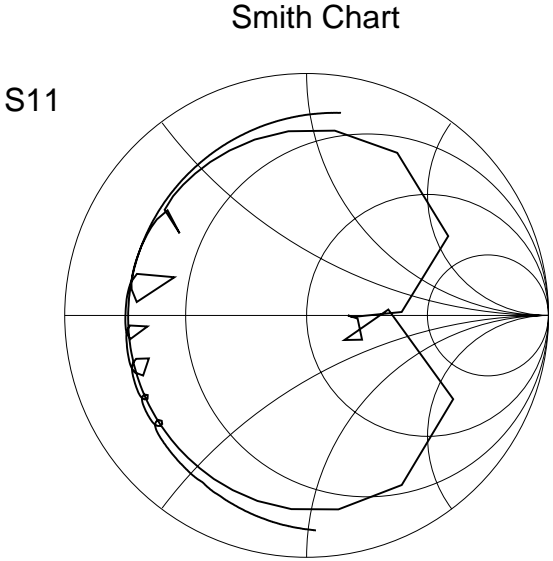
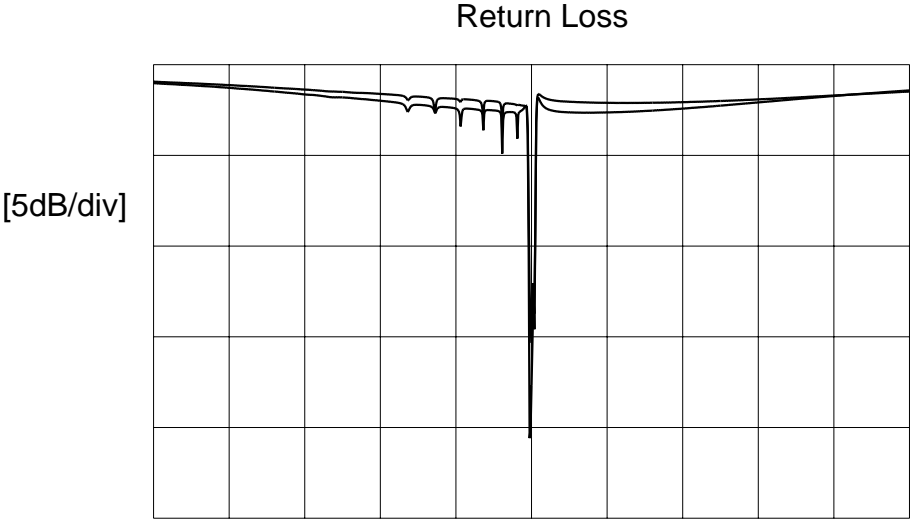
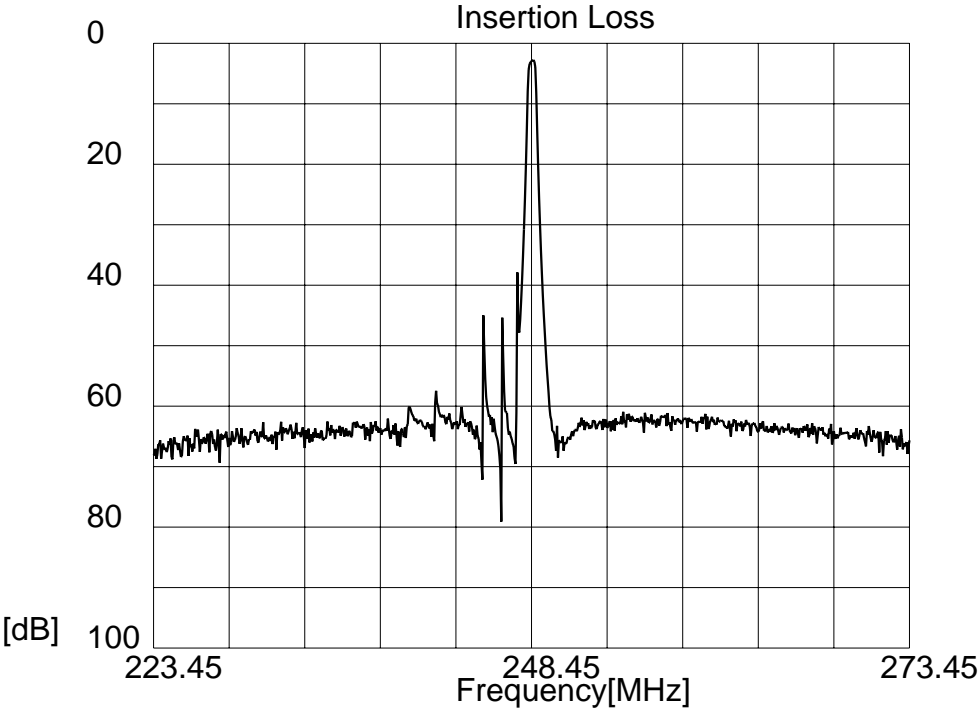
Center Freq. 248.45 [MHz]  
Freq.Span 0 [MHz]



Center Freq. 248.45 [MHz]  
Freq.Span 2 [MHz]



Center Freq. 248.45 [MHz]  
Freq.Span 9 [MHz]



Center Freq. 248.449992 [MHz]  
Freq.Span 49 [MHz]



Group Delay

