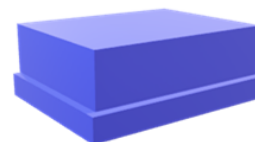


MAXIMUM RATING:

- Maximum Input Power: 20 dBm
- DC voltage: 3 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- ESD: 100V(MM) 200V(HBM)
- Moisture Sensitive Level: Level 3 (MSL3)

**925.8 MHz
SAW Filter**



SM1109-5

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Type.	Max	Note
Center Frequency Fc	MHz	-	925.8	-	
Insertion Loss (923.5 to 928.1 MHz) IL	dB		2.7	3.0	-20°C~40°C
Amplitude ripple (923.5 to 928.1 MHz)			0.4	1.3	
VSWR (923.5 to 928.1 MHz)			1.4	2.0	
Attenuation					
10 ~ 830 MHz	dB	45	60		
830 ~ 875 MHz	dB	45	50		
875 ~ 905 MHz	dB	35	45		
905 ~ 915 MHz	dB	30	40		
945 ~ 950 MHz	dB	40	55		
950 ~ 1150 MHz	dB	50	60		
1150 ~ 1856 MHz	dB	35	45		
1856 ~ 2500 MHz	dB	30	40		
Temperature coefficient	ppm/°C	-36			
Package size	mm	1109			

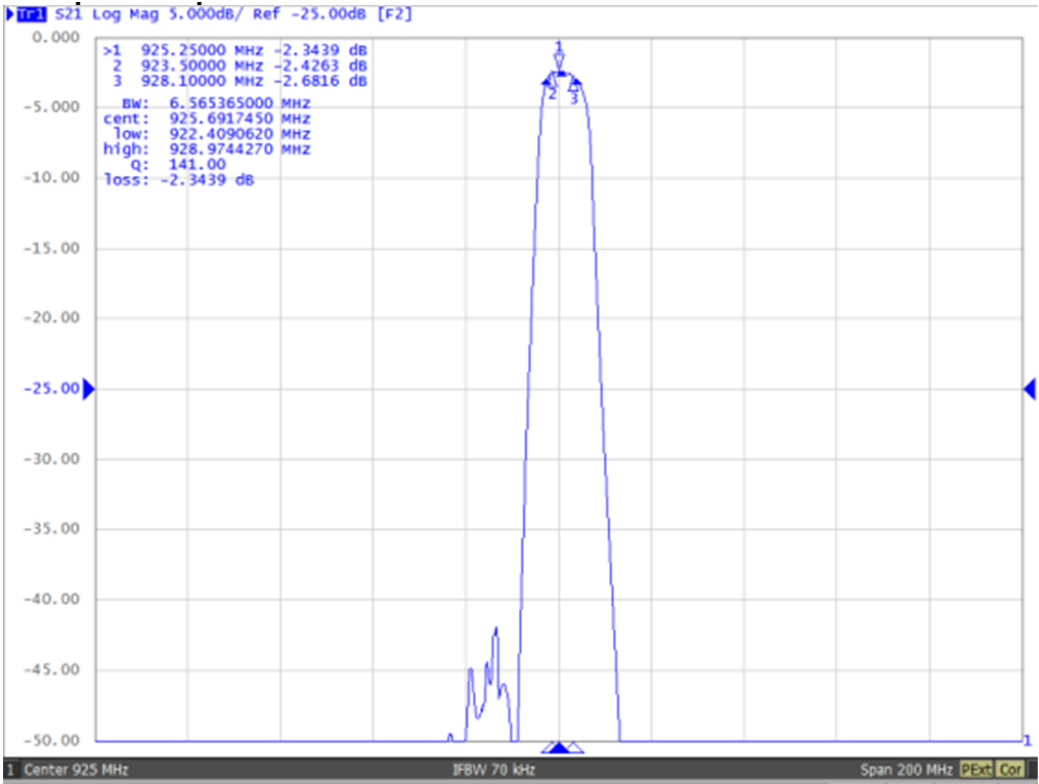


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

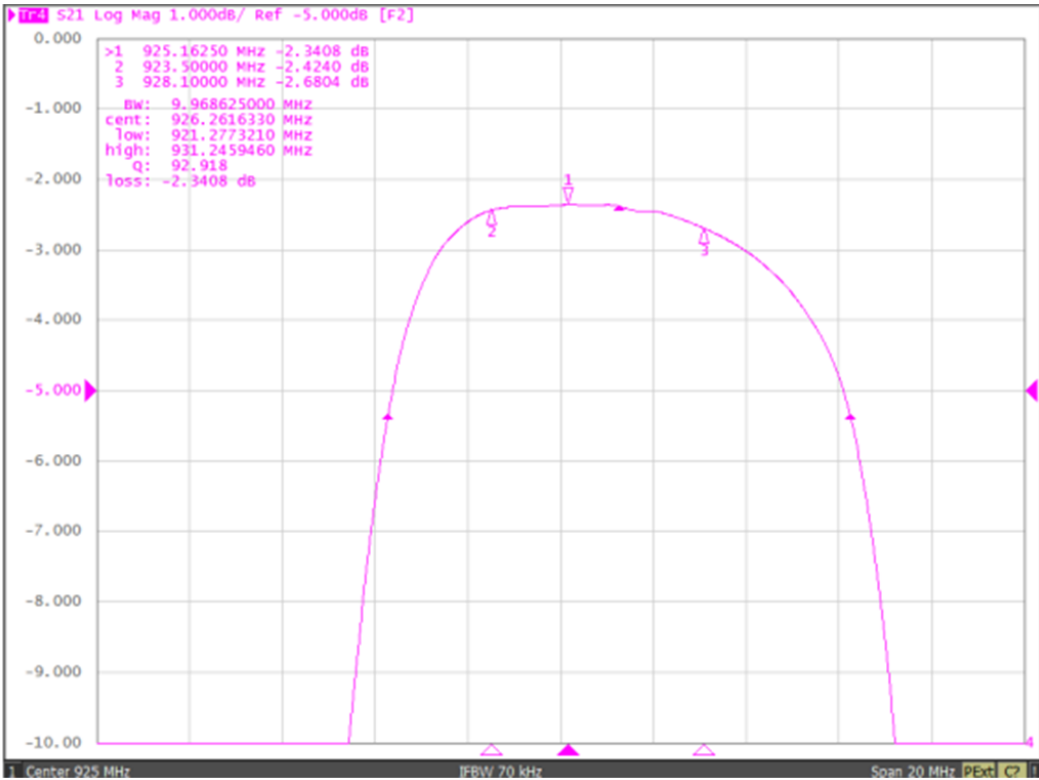
NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

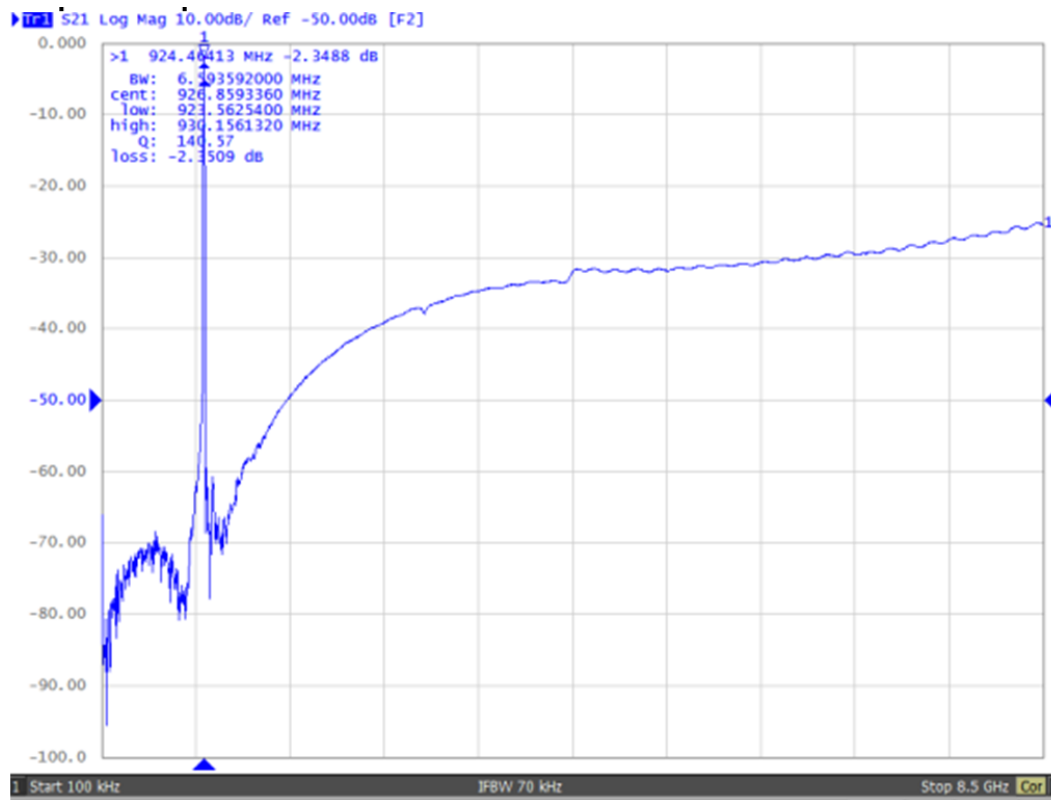
Frequency Characteristics :
S21dB Span 200 MHz



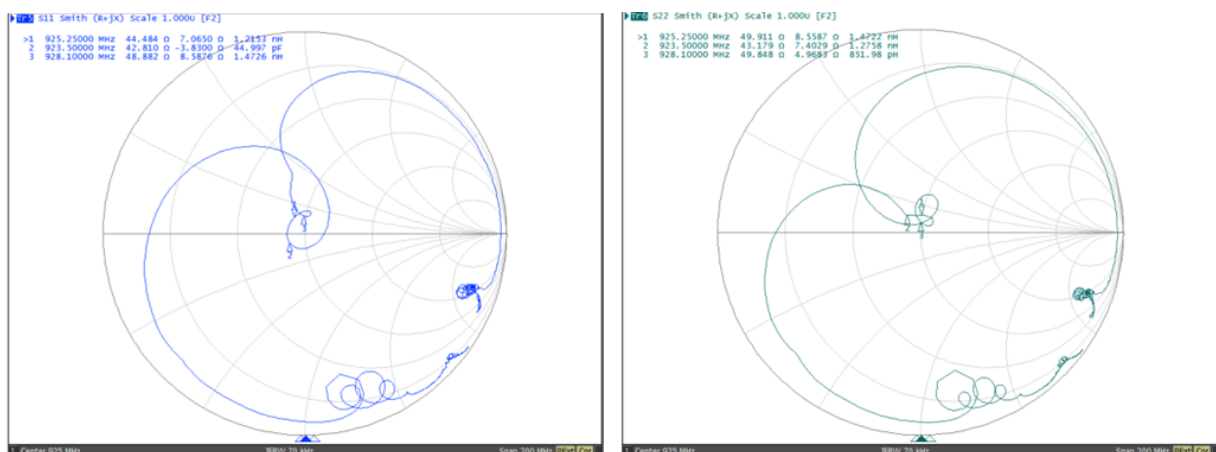
S21dB Span 20 MHz



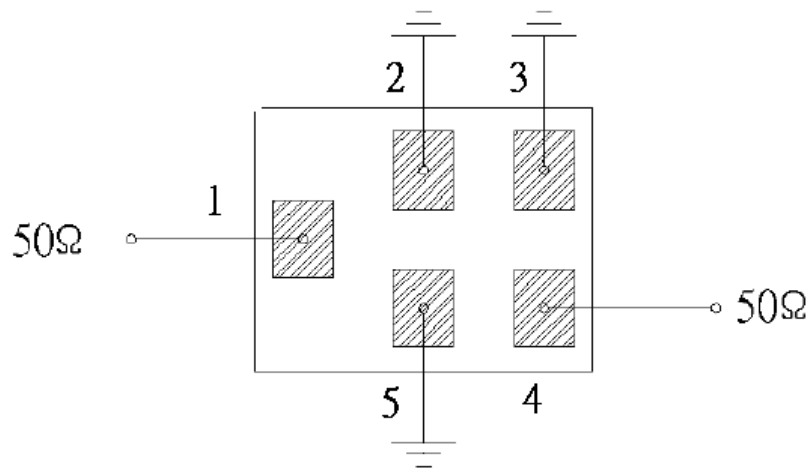
S21 Wide Span



S11/S22 Response

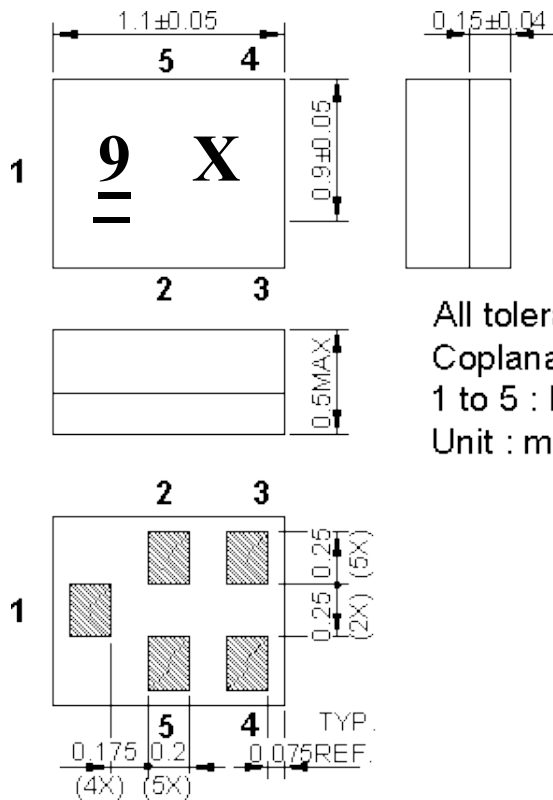


MEASUREMENT CIRCUIT:



Source Impedance: $50\ \Omega$
Load Impedance: $50\ \Omega$

OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

Marking Descriptions	
<u>9</u>	Series Number
X	Date Code(Year+Month)

Pin Description	
2, 3, 5	Ground
1	Input
4	Output

Date Code (year+month)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

REEL COUNT: 7" = 5000



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

