



MAXIMUM RATING:

• Operating temperature range: -40 °C to +85 °C

• Storage temperature range: -55 °C to +125 °C

• Maximum Input Power: +10 dBm

• Maximum DC Voltage: +/-5 V

• Moisture Sensitivity Level: Level 1 (MSL 1)

• ESD 50V(MM) 100V(HBM)

AEC-Q200 Qualified

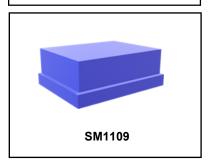
ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs = 50Ω (Single-ended)

Terminating load impedance: $Z_L = 50/(4.7 \text{nH} \Omega)$ (Single-ended)

SF2610LA

1960 MHz SAW Filter



	Parameters Description	Unit	Min.	Тур.	Max.	
Center Frequency Fc			MHz	-	1960	-
Insertion Loss(*1) (1930~1990 MHz)			dB	-	2.8	4.0
Amplitude Ripple (1930~1990 MHz)			dB	-	1.3	2.7
VSWR	Input (1930~1990 MHz)		-	-	1.9	2.2
	Output (1930~1990 MHz)		-	-	2.0	2.3
Attenua	tion (Reference level from 0 dB)					
DC~960 MHz			dB	40	45	-
1558~1608 MHz			dB	35	40	-
1710~1850 MHz			dB	35	40	-
1850~1910 MHz			dB	35	39	-
2020~2070 MHz			dB	7	27	-
2070~2400 MHz			dB	25	33	-
2400~2500 MHz			dB	33	43	-
2500~3780 MHz			dB	28	40	-
3780~3980 MHz			dB	30	39	-
3980~5790 MHz			dB	21	31	-
5790~5970 MHz			dB	21	31	-
5970~7720 MHz			dB	21	31	-
7720~7960 MHz			dB	17	27	-
7960~8000 MHz			dB	17	27	-

(*1) Specification of insertion loss excludes loss that comes from the test board.



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.:

- 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



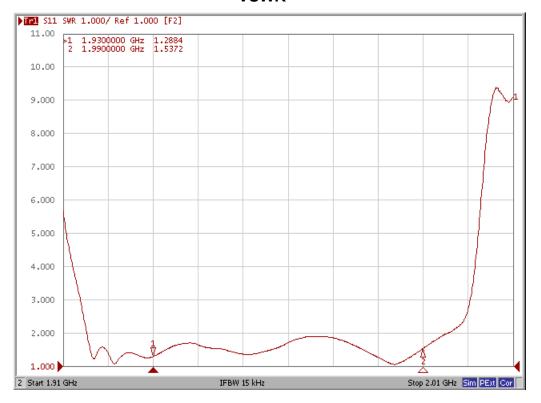
3 Start 300 kHz

IFBW 15 kHz

Stop 8 GHz Sim PExt Cor !

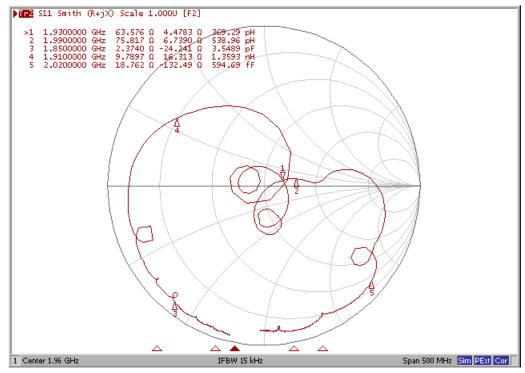
Reflection Functions:

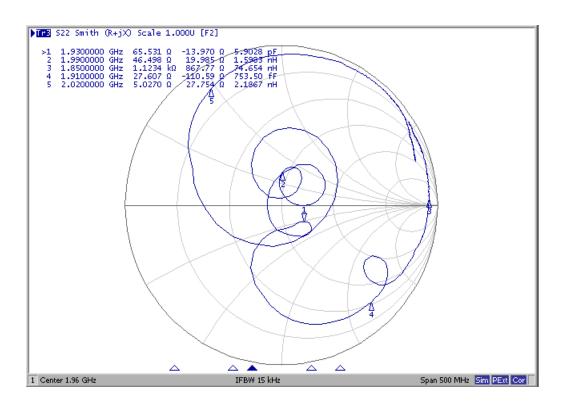
VSWR



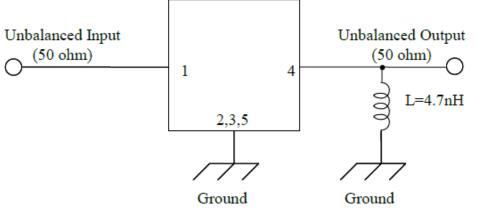


Smith Chart



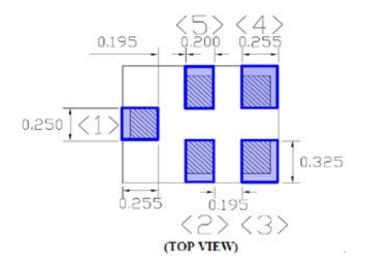


MEASUREMENT CIRCUIT



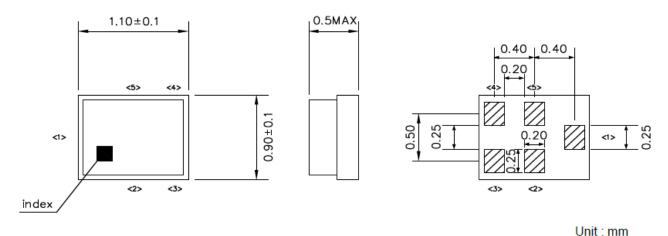
1 to 5; Pin No.

PCB Footprint



OUTLINE DRAWING

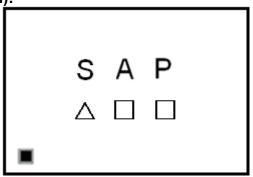
Device size: 1.1typ. x 0.9typ. x 0.5max.



Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

Top View (Mass Production):

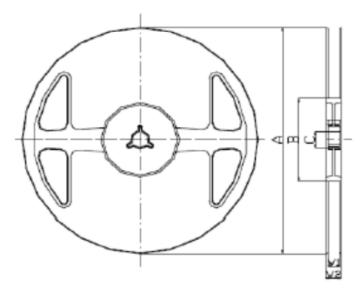


 \triangle : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and I)

Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	Α	В	С	D	Е	F	G	Н	J	K	L	М
2018	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2019	а	b	С	d	e	f	g	h	j	k	I	m
2020	n	р	q	r	S	t	u	v	w	х	У	Z



Materials of Reel

Material: Polystyrene + Carbon

Color: Black

Surface resistance (reference value) : $10^{9}\Omega$ /sq Max.

TAPE DIMENSION Empty cavities Empty cavities Component fixed area 4.0+/-0.1 50+/-0.05 $0.20 \pm /-0.05$ 2.0+/-0.05 Φ 1.55+/-0.05 4.0+/-0.1 0.63 + / -0.05 Φ 0.5+/-0.05 1.3 + /-0.11.1+/-0.1 240 mm min. 400 mm min. Unit: mm Direction of feed

Unit: mm

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.

