



- Input Power Level: 10 dBm (in passband)
- DC Voltage : +/-5 V
- Operating Temperature: -30 °C to +85 °C
- Storage Temperature: -40 °C to +100 °C
- Moisture Sensitive Level: Level 1 (MSL1)
- ESD: 50 V(MM), 100 V(HBM)

ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Zs = 50 \Omega$

Terminating load impedance: $Z_L = 50/(10nH \Omega)$

_	SF2613LM						
	1880 MHz SAW Filter						

RoHS compliant



Item		Unit	Min.	Тур.	Max.	Remark
Center Frequency	Fc	MHz	-	1880	-	-
		dB(*1)	-	1.7	2.0	at 25 °C
Insertion Loss (1850~1910 MHz)	IL	dB(*1)	-	-	2.8	-
		dB		0.7	1.1	at 25 °C
Amplitude Ripple (1850~1910 MHz)		dB	-	-	1.9	-
VSWR (1850~1910 MHz)		-	-	1.8	2.2	-
Attenuation (Reference level from 0 c	IB)					
DC ~ 1570 MHz		dB	20	32	-	-
1570 ~ 1580 MHz		dB	20	34	-	-
1930 ~ 1990 MHz		dB	17	20	-	-
1990 ~ 2400 MHz		dB	20	26	-	-
2400 ~ 3000 MHz		dB	20	31	-	-
3000 ~ 4000 MHz		dB	15	30	-	-
4000 ~ 5550 MHz		dB	10	24	-	-
5550 ~ 5730 MHz		dB	10	24	-	-
5730 ~ 6000 MHz		dB	10	23		-

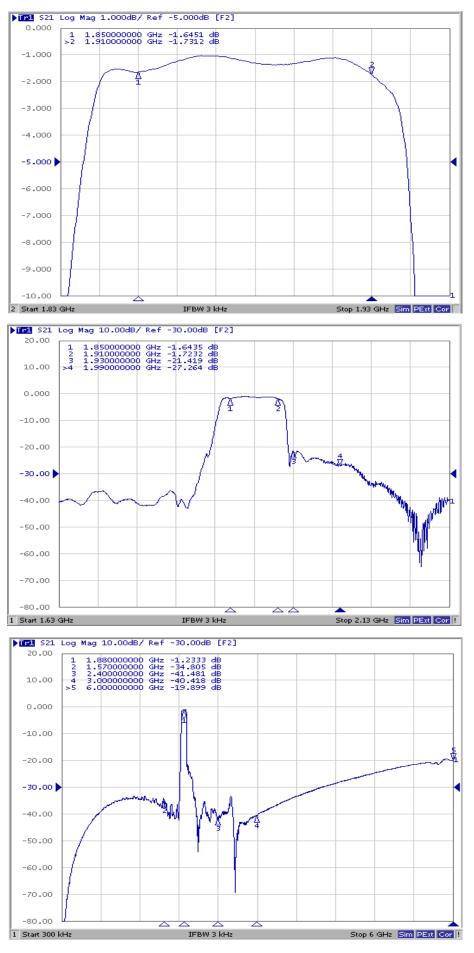
(*1)Specification of insertion loss includes loss that comes from test board. (Approximately 0.15 dB)

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

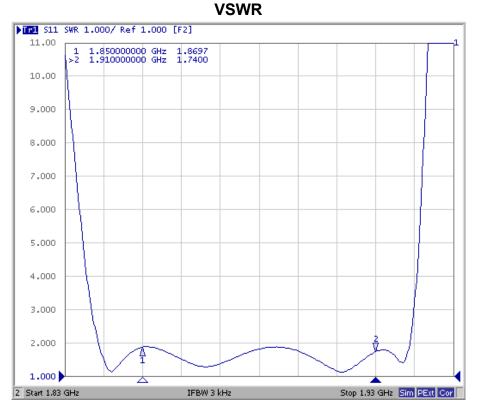
1. The design, manufacturing process, and specifications of this device are subject to change.

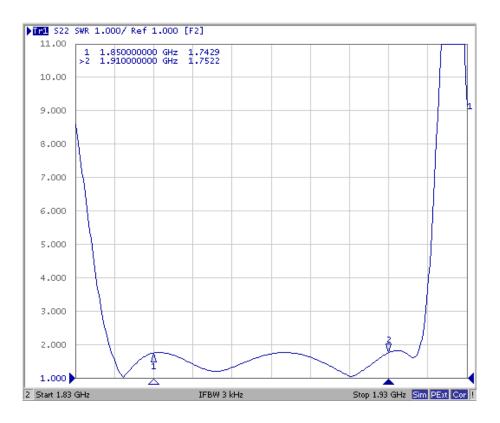
US or International patents may apply.
RoHS compliant from the first date of manufacture.

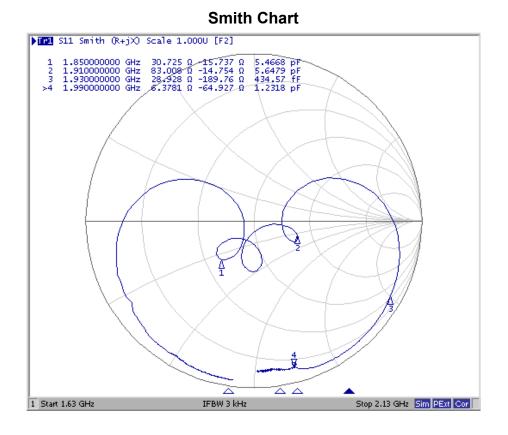
FREQUENCY CHARACTERISTICS:

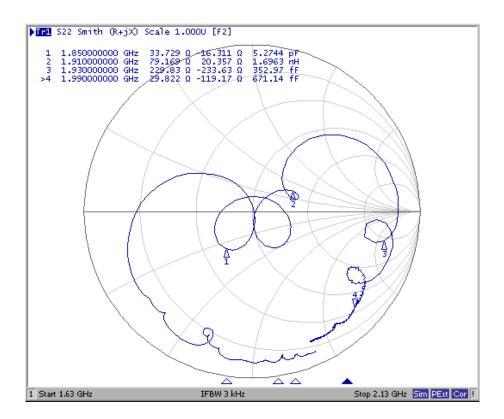


Reflection Functions:

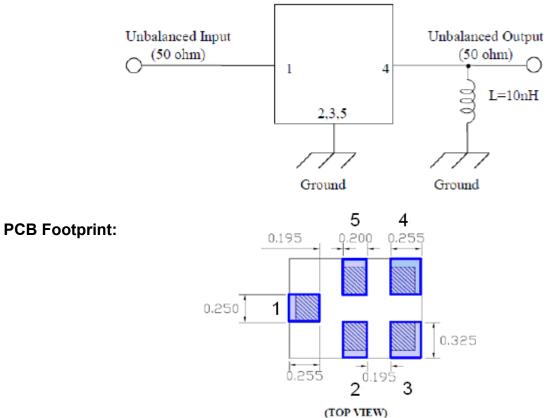






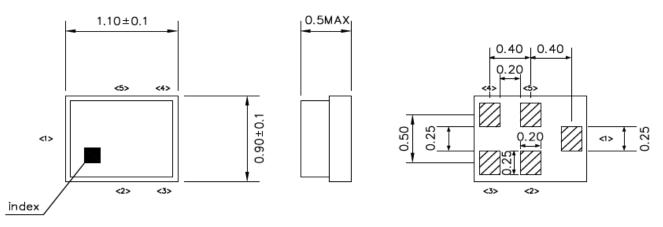


MEASUREMENT CIRCUIT:



OUTLINE DRAWING:

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

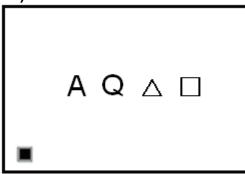


Unit : mm

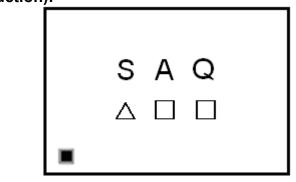
Pin Configuration

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

Top View (Sample Production):



Top View (Mass Production):



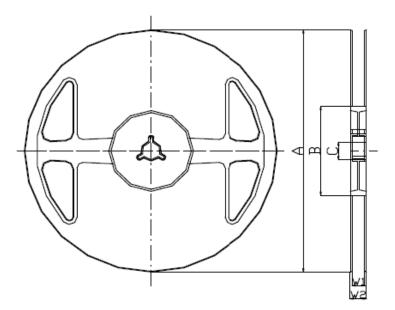
\triangle : Date Code

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

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	А	В	С	Ð	E	F	G	Н	J	К	L	М
2018	Ν	Ρ	Ŋ	R	S	Т	U	V	W	х	Y	Z
2019	а	b	С	d	е	f	g	h	j	k	1	m
2020	n	р	q	r	s	t	u	v	v	х	у	Z

REEL DIMENSION

Reel Count: 7" = 3000 13" = 10,000



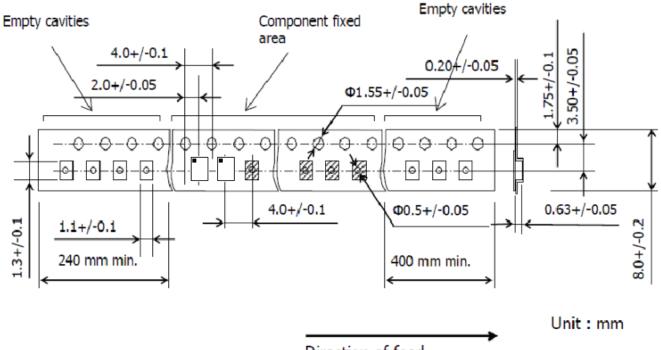
Materials of Reel

Material : Polvstvrene + Carbon Color : Black Surface resistance (reference value) : $10^{9}\Omega/sq$ Max.

Unit : mm

А	В	С	W1	W2	
φ 180.0 +0.0/-1.5	ф 66.0 +/-0.5	¢ 13.0 +/-0.2	9.0 +1.0/-0.0	11.4 +/-1.0	

TAPE DIMENSION



Direction of feed

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.

