

BF2007L-1

**2593 MHz
BAW Filter**



SM1109-5

Maximum Rating:

- ▽Input Power Level : 33dBm
- ▽DC Voltage : 0V
- ▽Operating Temperature: -40°C to +85°C
- ▽Storage Temperature: -40°C to +125°C
- ▽Moisture Sensitivity Level: Level 3

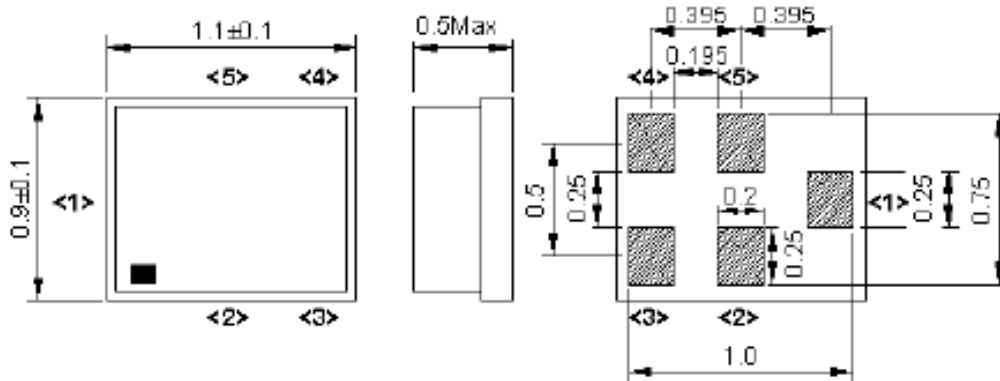
Electrical Characteristics:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency	MHz	-	2593		
Insertion Loss	2496~2500 MHz	dB	-	2.1	2.7
	2500~2535 MHz	dB	-	1.9	2.6
	2535~2675 MHz	dB	-	1.2	1.6
	2675~2690 MHz	dB	-	1.4	1.6
Amplitude Ripple	2496 ~ 2690 MHz	dB	-		1.7
VSWR(Input)	2496 ~ 2690 MHz	-	-	1.6	1.8
VSWR(Output)	2496 ~ 2690 MHz	-	-	1.6	1.8
Attenuation (reference level from 0 dB)					
300 ~ 925 MHz	dB	33	35	-	
1565 ~ 1980 MHz	dB	30	31	-	
2110 ~ 2170 MHz	dB	30	32	-	
2300 ~ 2400 MHz	dB	32	38	-	
2402 ~ 2422 MHz	dB	32	35	-	WiFi Channel 1

2407 ~ 2427 MHz	dB	32	34	-	WiFi Channel 2
2412 ~ 2432 MHz	dB	32	33	-	WiFi Channel 3
2417 ~ 2447 MHz	dB	30	33	-	WiFi Channel 4-6
2432 ~ 2452 MHz	dB	30	33	-	WiFi Channel 7-8
2442 ~ 2462 MHz	dB	30	35	-	WiFi Channel 9
2447 ~ 2467 MHz	dB	8	30	-	WiFi Channel 10
2452 ~ 2472 MHz	dB	4	25	-	WiFi Channel 11
2457 ~ 2477 MHz	dB	2	15	-	WiFi Channel 12
2462 ~ 2482 MHz	dB	1.5	8	-	WiFi Channel 13
3300 ~ 3800MHz	dB	30	38	-	
3800 ~ 4200 MHz	dB	30	40	-	
4400 ~ 5000 MHz	dB	35	46	-	
4992 ~ 5380 MHz	dB	38	48	-	
5150 ~ 5850 MHz	dB	38	48	-	
7488 ~ 8070 MHz	dB	25	33	-	

Note: The typical value is average value of each frequency band at 25°C

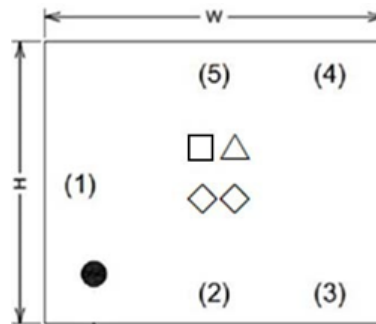
Outline Drawing



Pin Configuration		
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Not specified tolerance: +/-0.1 mm
Unit:mm

Top View (Mass Production)



<Top View>

Marking name : N

△ : Date Code. Follow below table. (4-year cycle)

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

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2020/2024	A	B	C	<u>D</u>	E	F	G	H	J	K	L	M
2021/2025	N	P	Q	R	S	T	U	V	W	X	Y	Z
2022/2026	a	b	<u>c</u>	d	e	<u>f</u>	h	<u>l</u>	j	<u>k</u>	<u>z</u>	<u>m</u>
2023/2027	<u>n</u>	3	q	r	4	t	<u>u</u>	5	6	7	y	9

Week & Lot Code Table

001	002	003	004	005	006	007	008	009	010	011	012
A	B	C	<u>D</u>	E	F	G	H	J	K	L	M
013	014	015	016	017	018	019	020	021	022	023	024
N	P	Q	R	S	T	U	V	W	X	Y	Z
025	026	027	028	029	030	031	032	033	034	035	036
a	b	<u>c</u>	d	e	<u>f</u>	h	<u>i</u>	j	<u>k</u>	<u>l</u>	<u>m</u>
037	038	039	040	041	042	043	044	045	046	047	048
<u>n</u>	3	q	r	4	t	<u>u</u>	5	6	7	y	9

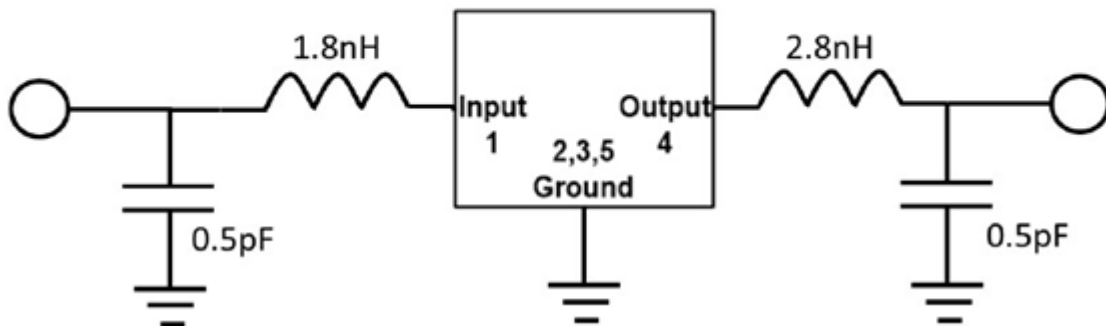
Real Circuit

Input terminating impedance

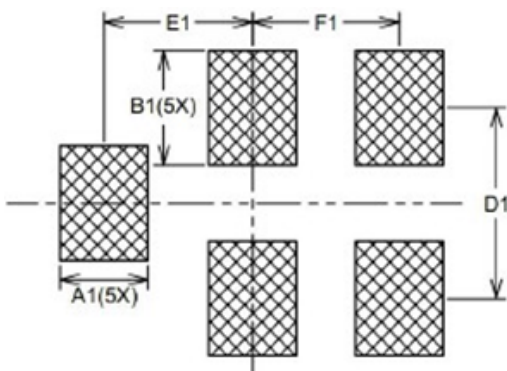
$Z_{in} = 50 \Omega$

Output terminating impedance

$Z_{out} = 50 \Omega$



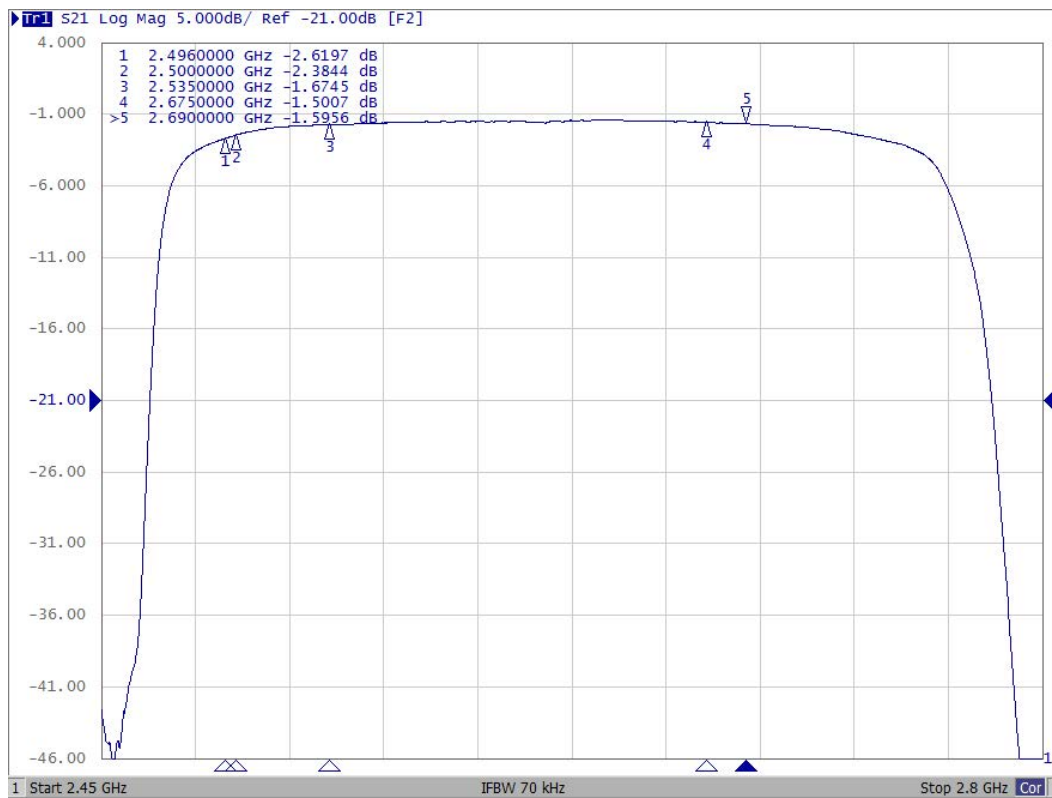
PCB Footprint

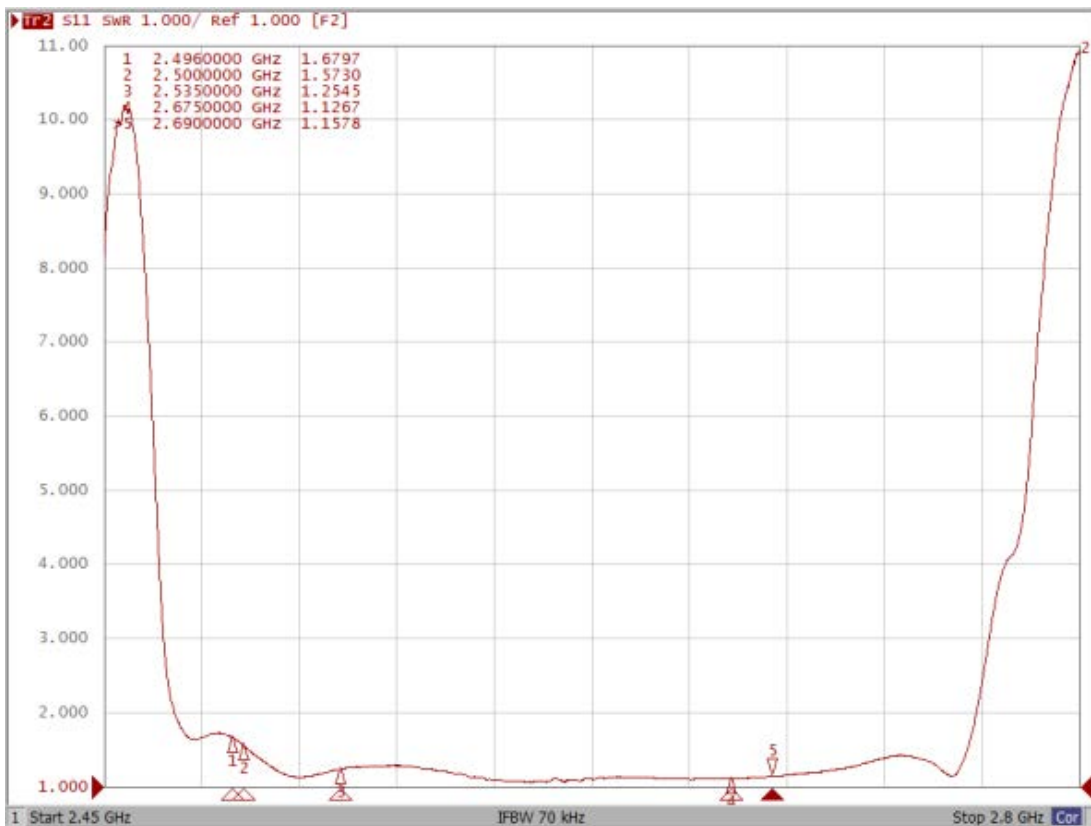
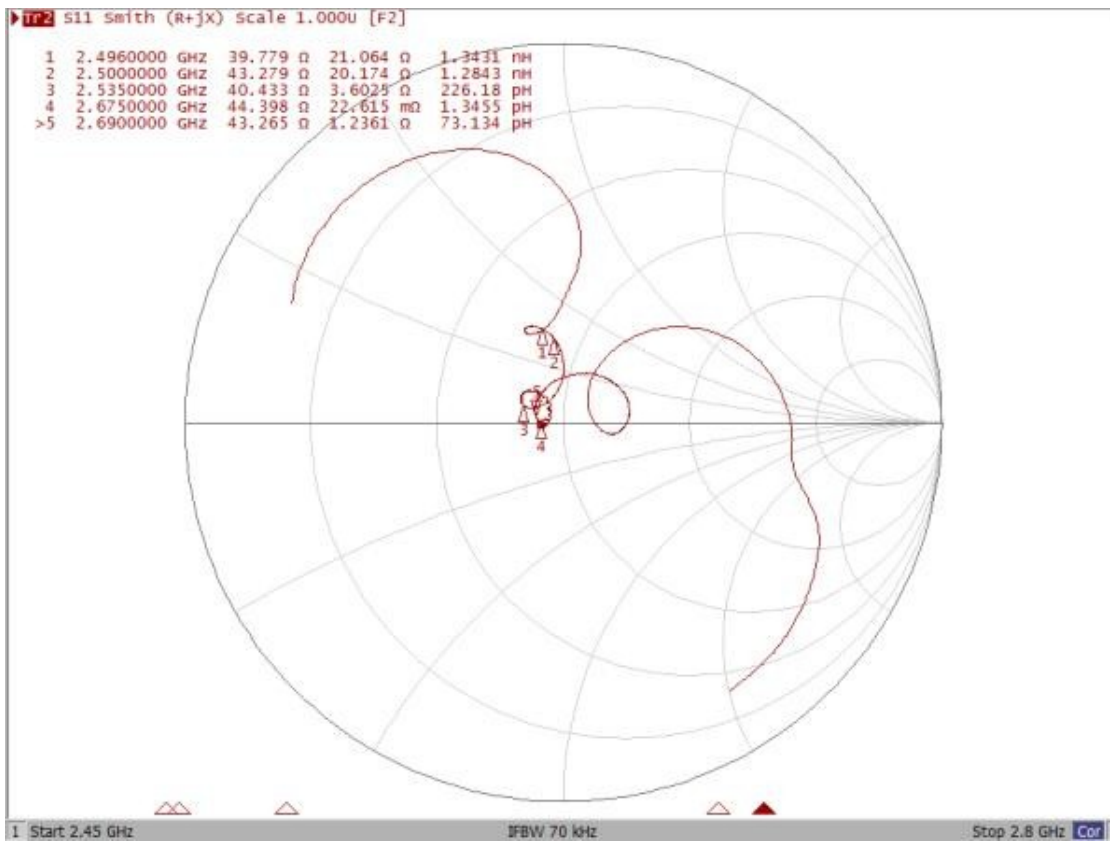


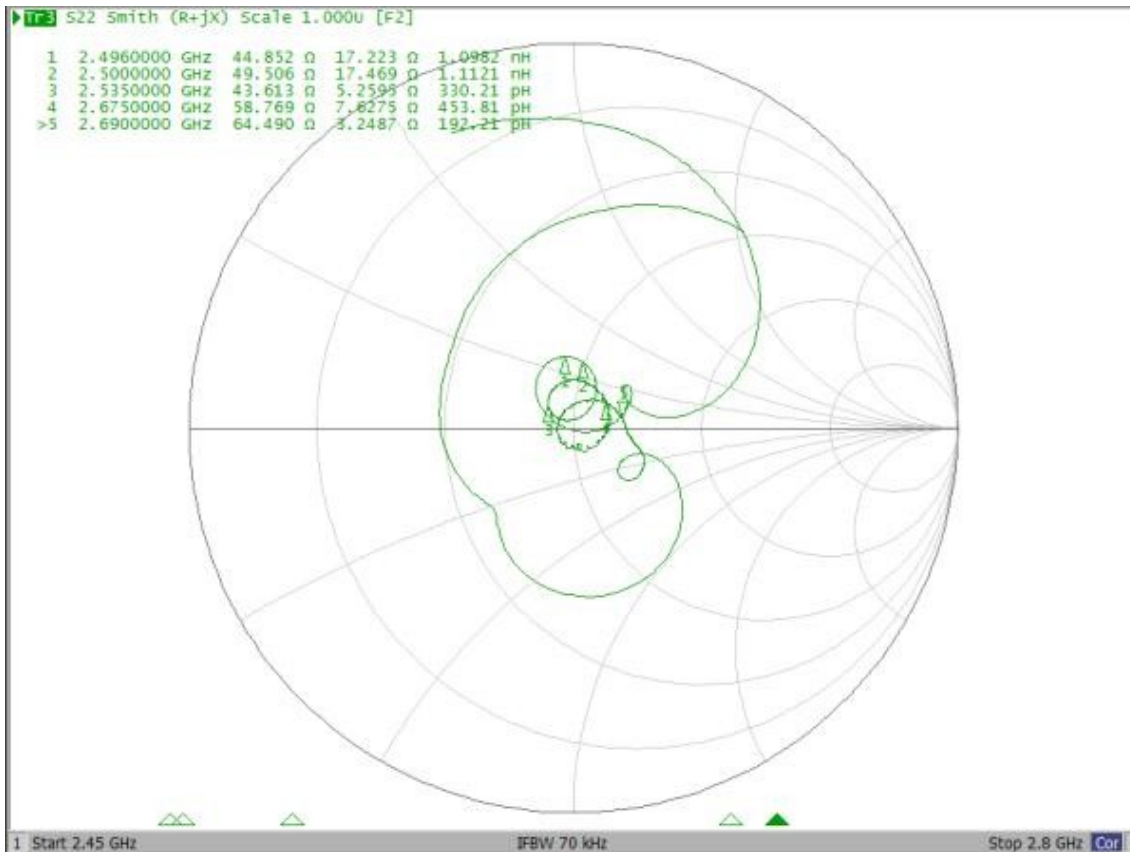
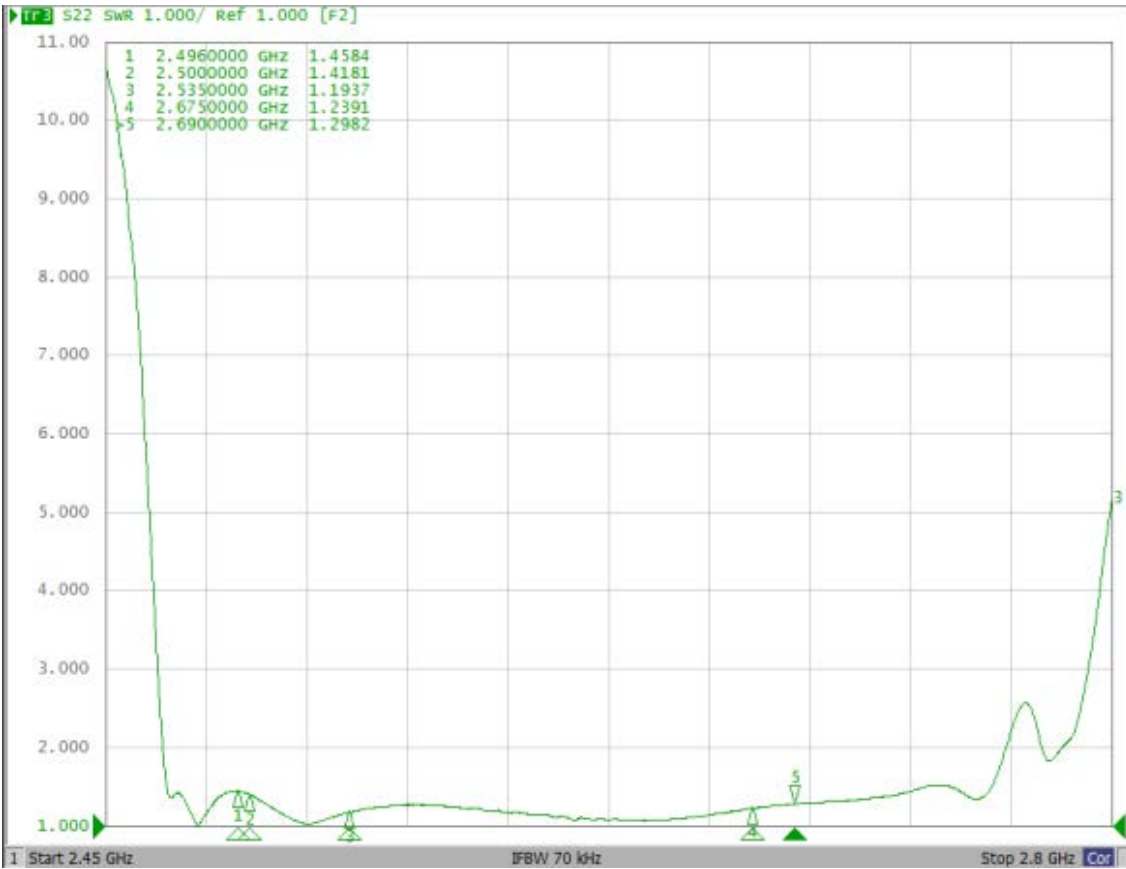
Symbol	DIMENSION REQUIREMENT	
A1	0.23	Land pattern THRU VIEW
B1	0.3	
D1	0.5	
E1	0.385	
F1	0.385	

Frequency Characteristics

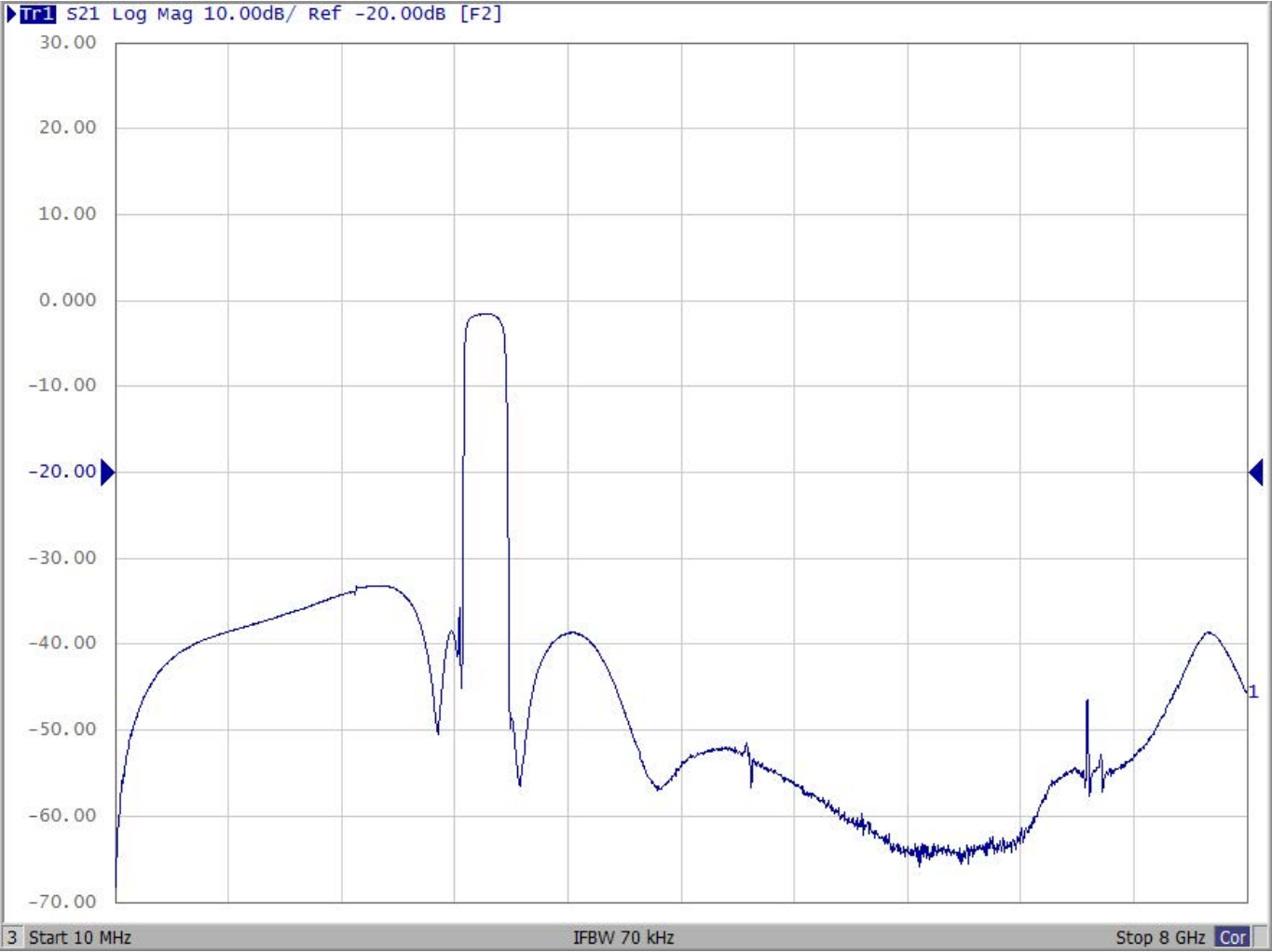
Passband







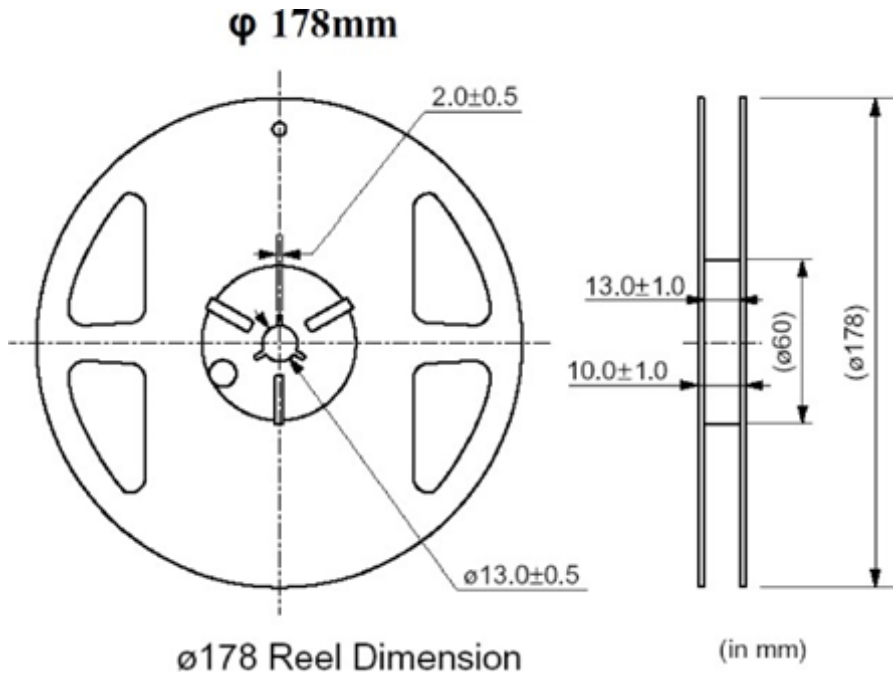
Wide span



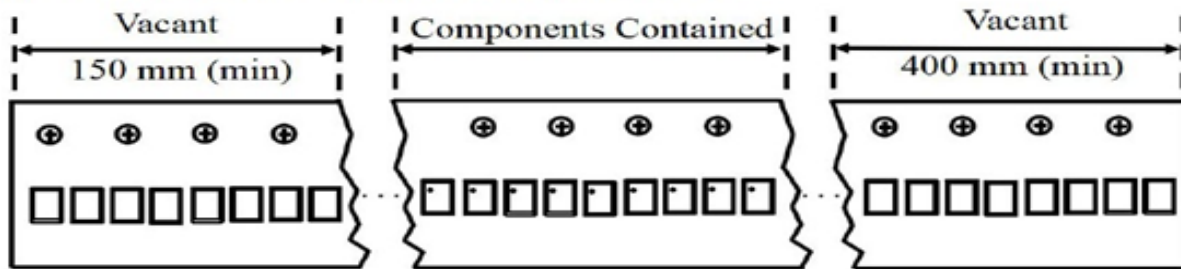
Packing:

Reel Dimension

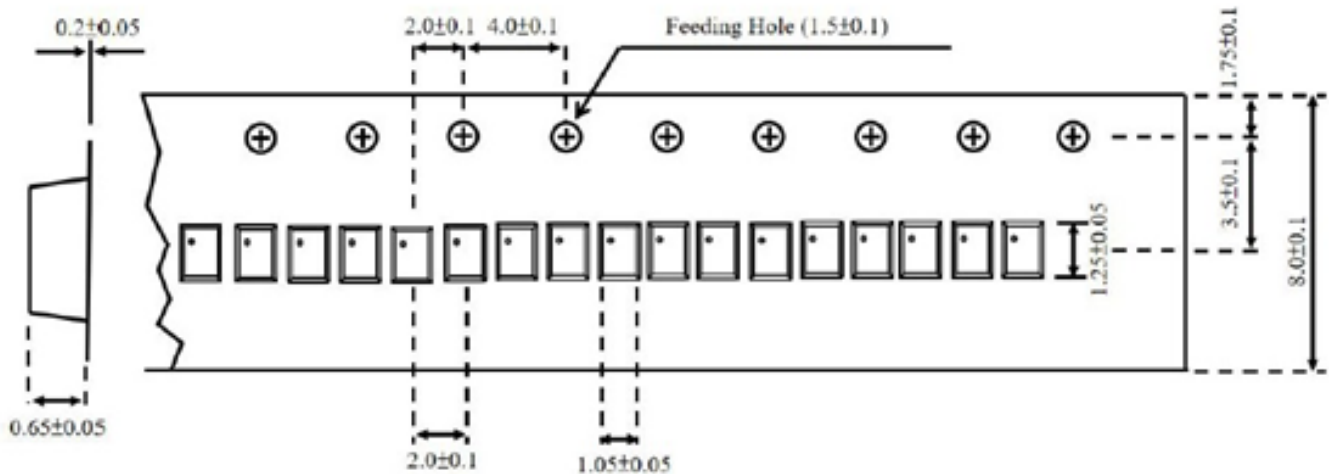
Reel Count:
7" = 3000



(1). Leader part and vacant position specifications



(2). Tape Specifications



H. Recommended Solder 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 245~260°C peak (min. 10sec).
4. Time : 2 times.

