

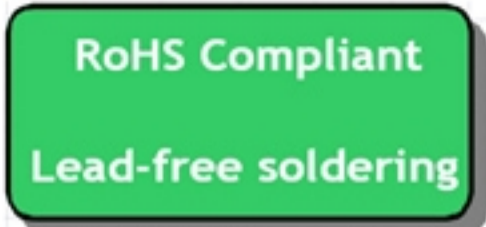
# SAW Filter 1582.469 MHz Rx SMD 1.1x0.9 mm (BW=46.834 MHz)

MODEL NO.: TA1804B

REV. NO.:1.0

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40 °C to +105 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 1
6. Maximum ESD: +/-50 V (Human body model)



Electrostatic Sensitive Device (ESD)

## B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance:  $Z_s = 50 \Omega$  (Single-ended)

Terminating load impedance:  $Z_L = 50 \Omega$  (Single-ended)

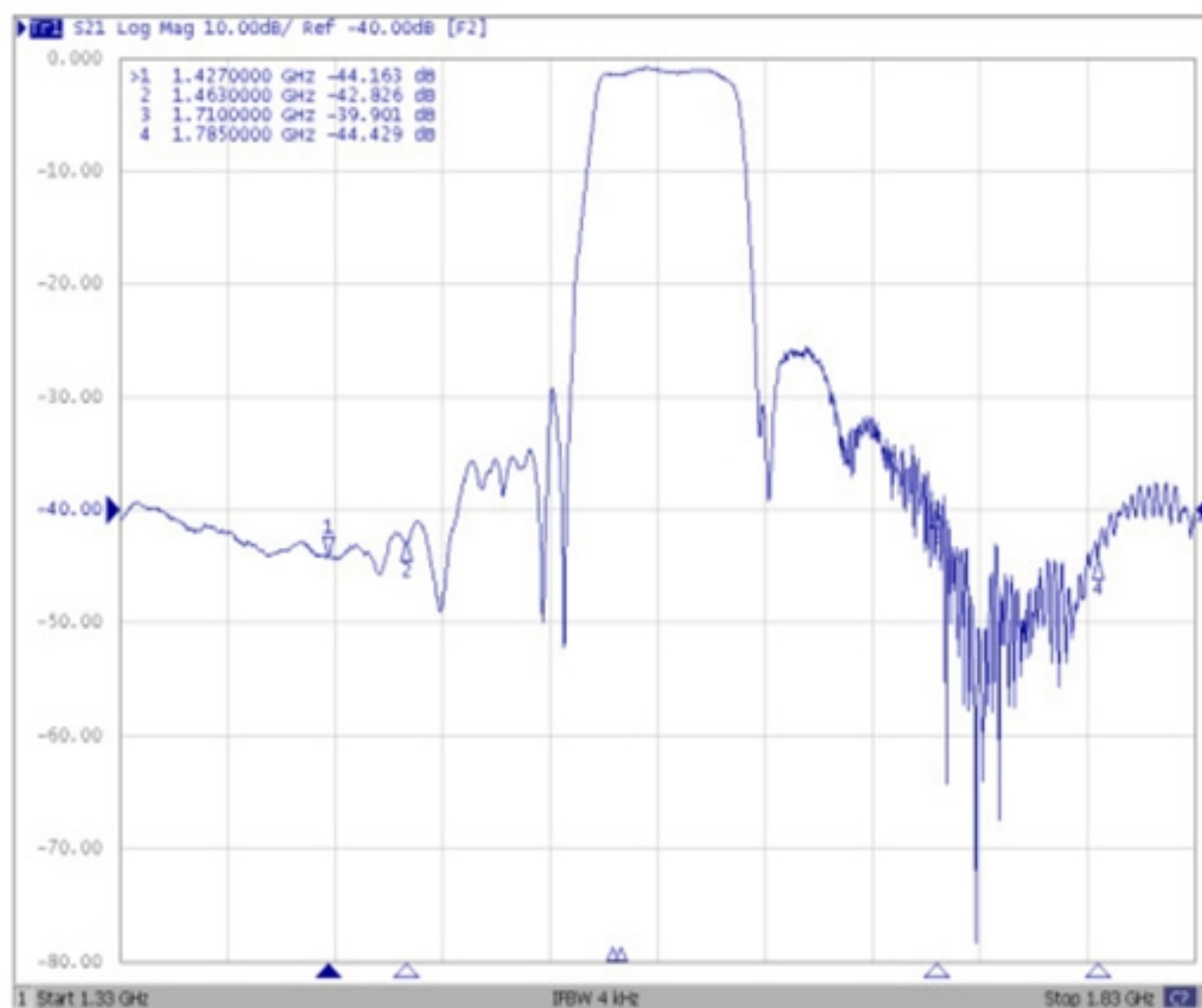
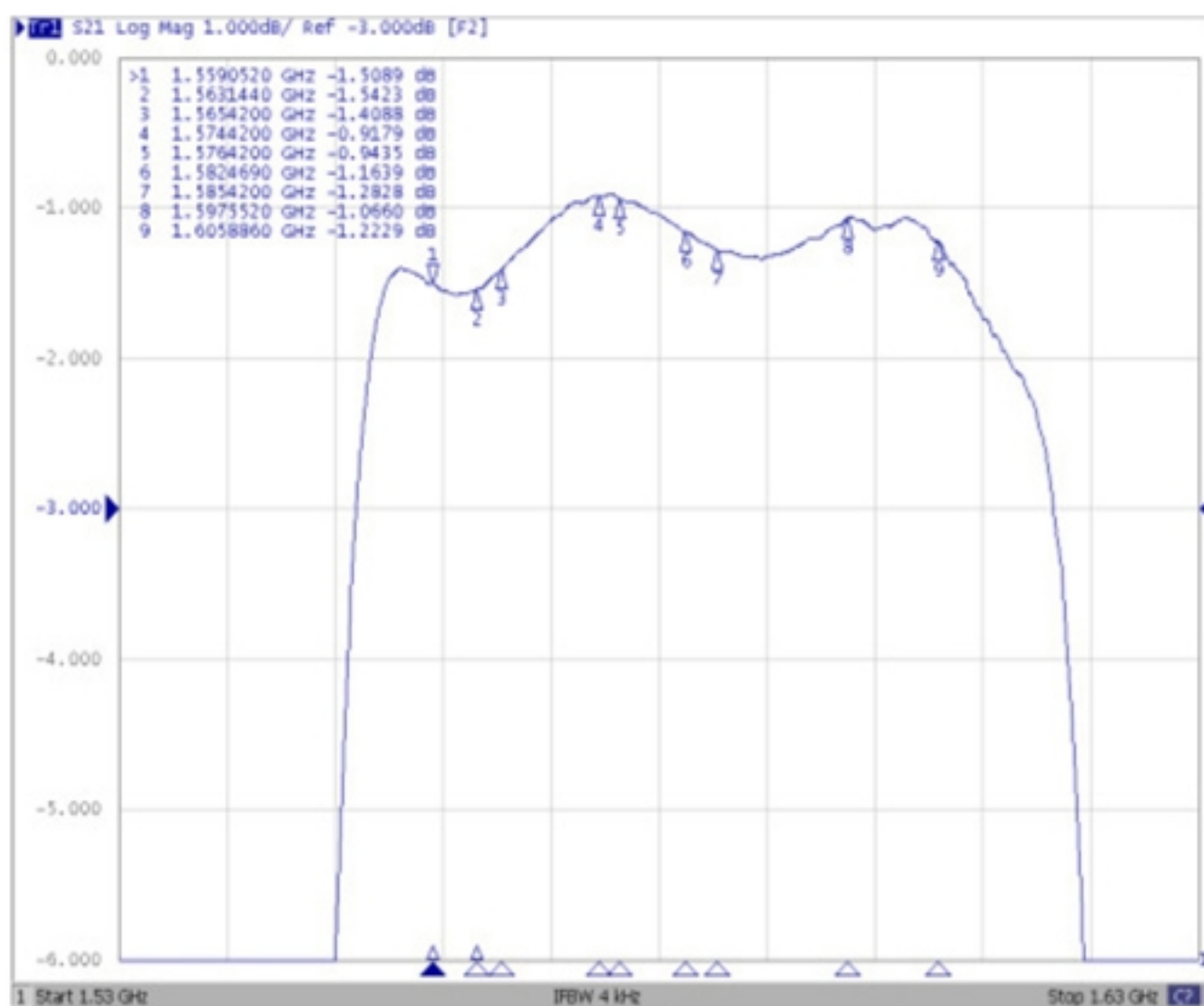
Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency		MHz	-	1582.469	-
Insertion Loss	1574.42~1576.42 MHz	dB (*1)	-	0.95	1.5
	1565.42~1585.42 MHz	dB (*1)	-	1.5	2.0
	1597.552~1605.886 MHz	dB (*1)	-	1.4	2.3
	1559.052~1563.144 MHz	dB (*1)	-	1.7	2.8
VSWR(Input/Output)	1574.42~1576.42 MHz	-	-	1.3	2.0
	1565.42~1585.42 MHz	-	-	1.9	2.3
	1597.552~1605.886 MHz	-	-	1.5	2.5
	1559.052~1563.144 MHz	-	-	1.8	2.5
<b>Attenuation (Reference level from 0 dB)</b>					
<b>50~925 MHz</b>		dB	32	36	-
<b>925~980 MHz</b>		dB	32	36	-
<b>1427~1463 MHz</b>		dB	32	39	-
<b>1710~1785 MHz</b>		dB	32	39	-
<b>1850~1910 MHz</b>		dB	32	38	-
<b>1920~1980 MHz</b>		dB	32	37	-

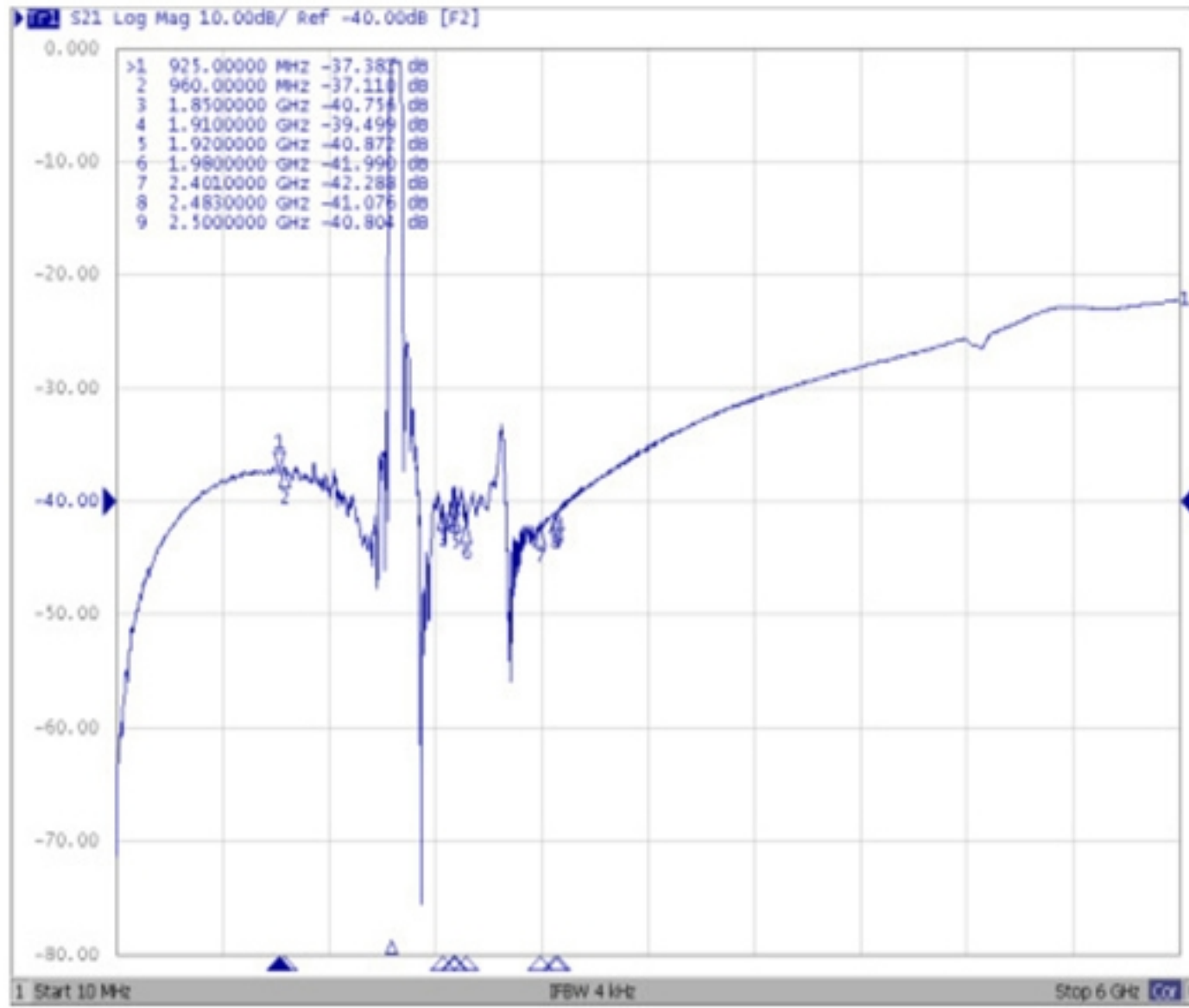
2401~2483 MHz	dB	32	39	
2500~2570 MHz	dB	31	38	
Temperature Coefficient of Frequency	ppm/°C	-36		

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

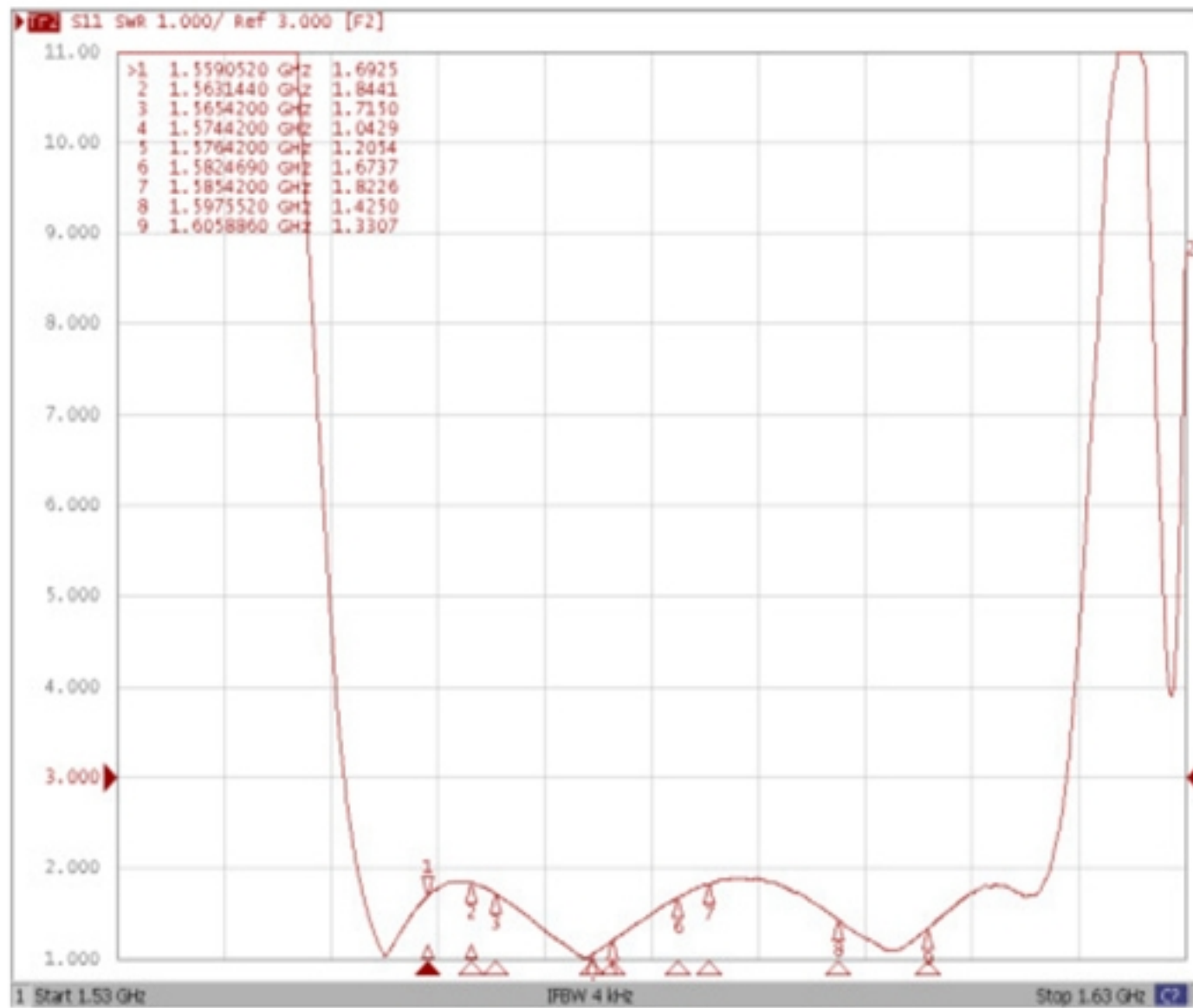
### C. FREQUENCY CHARACTERISTIC:

#### Frequency Response

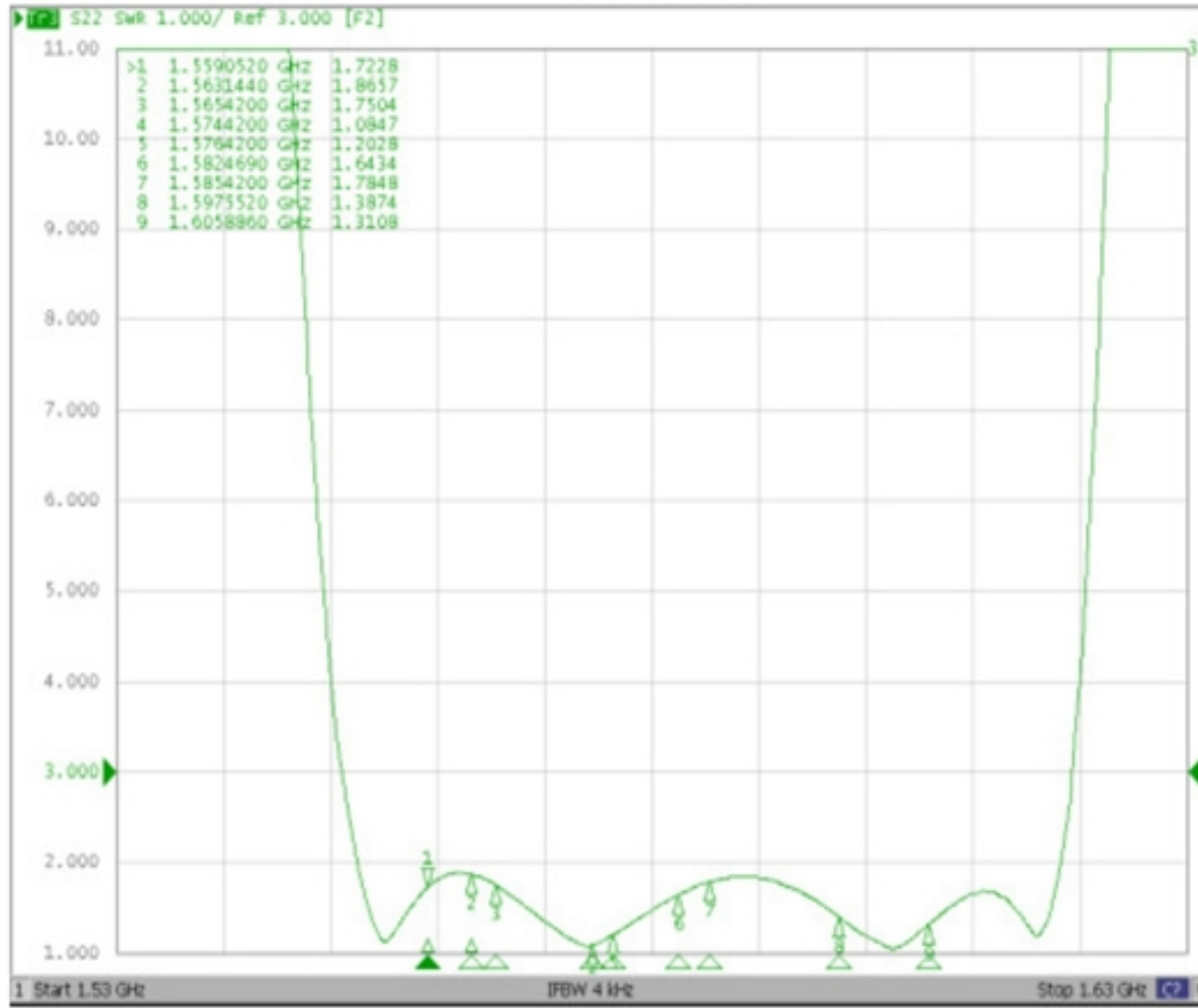




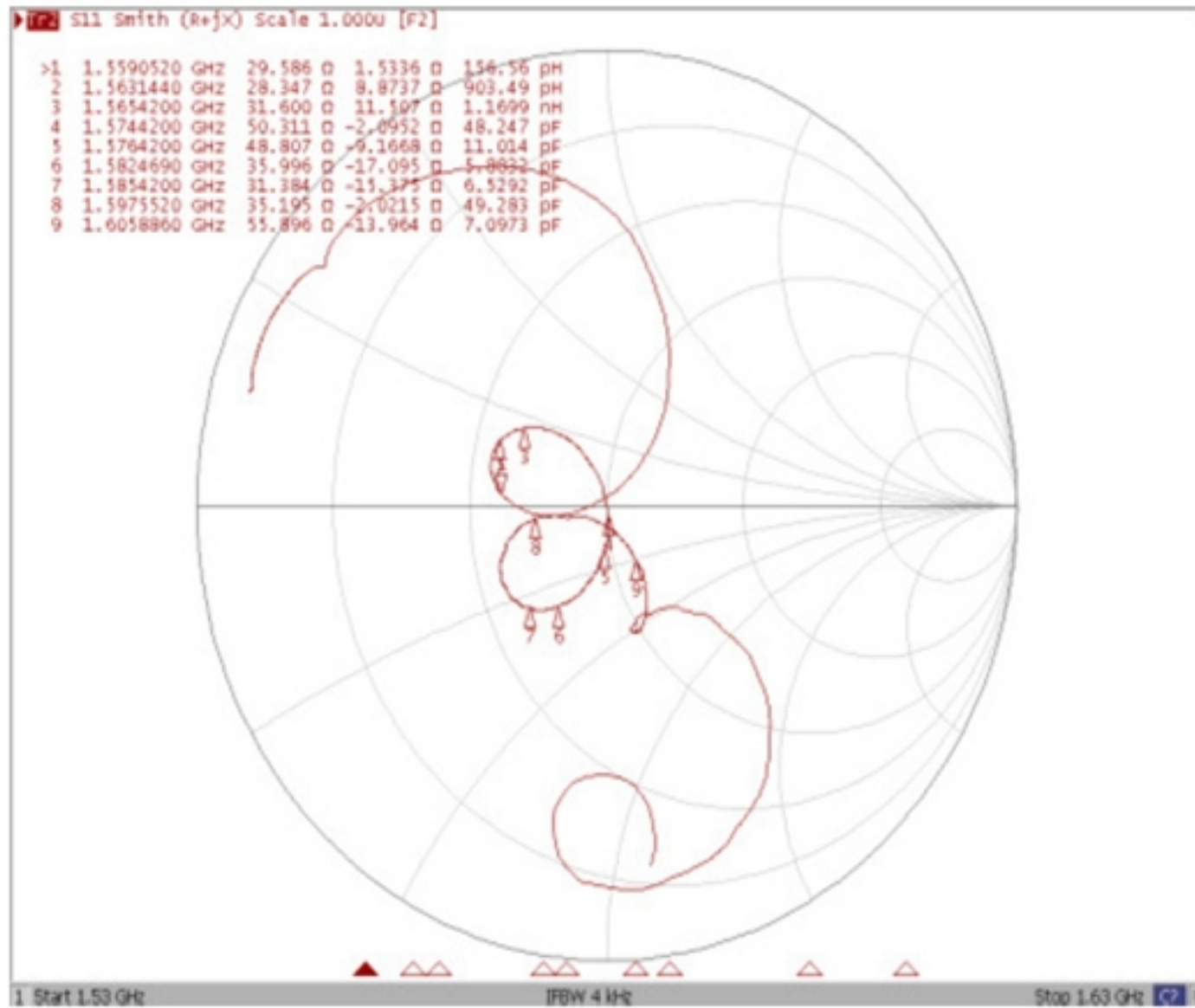
### VSWR S11



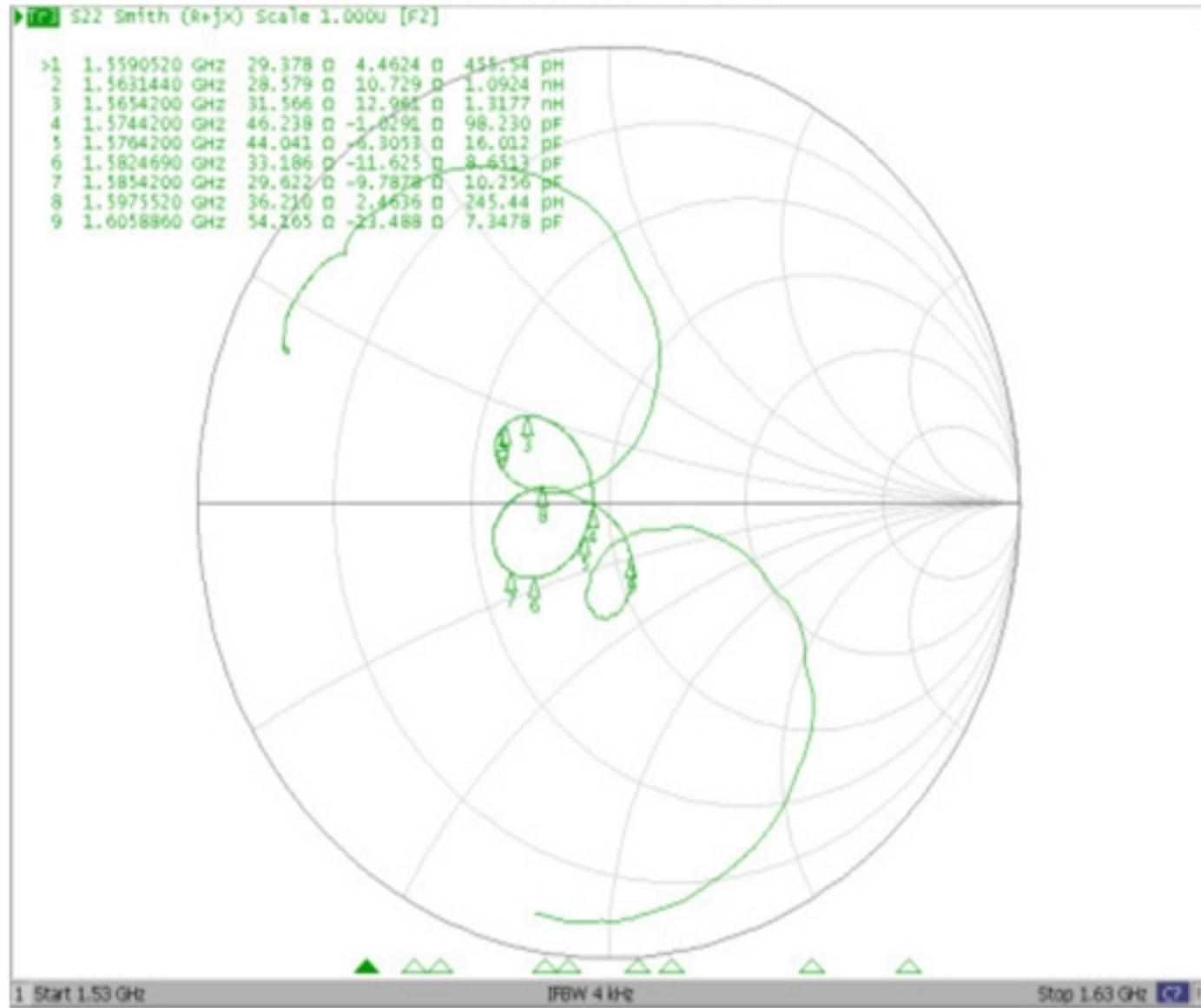
## VSWR S22



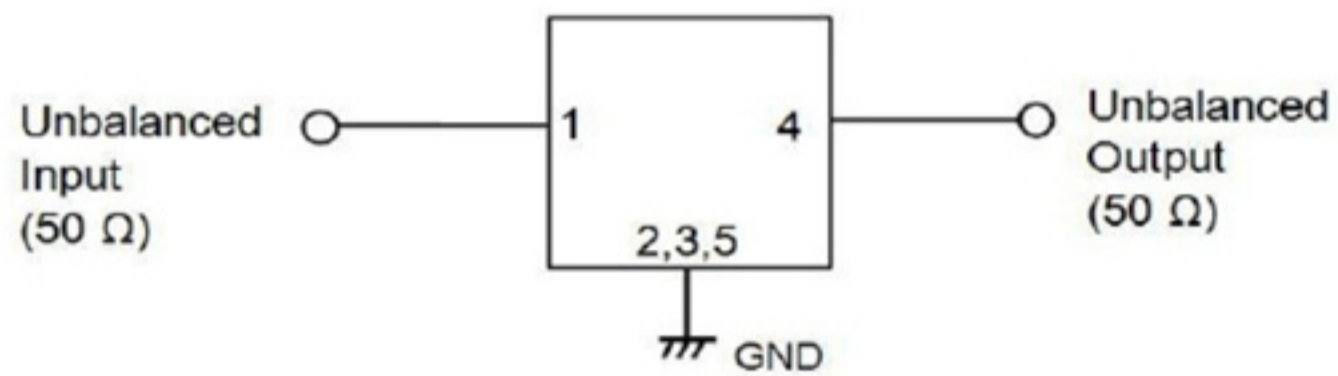
## Smith Chart S11



### Smith Chart S22

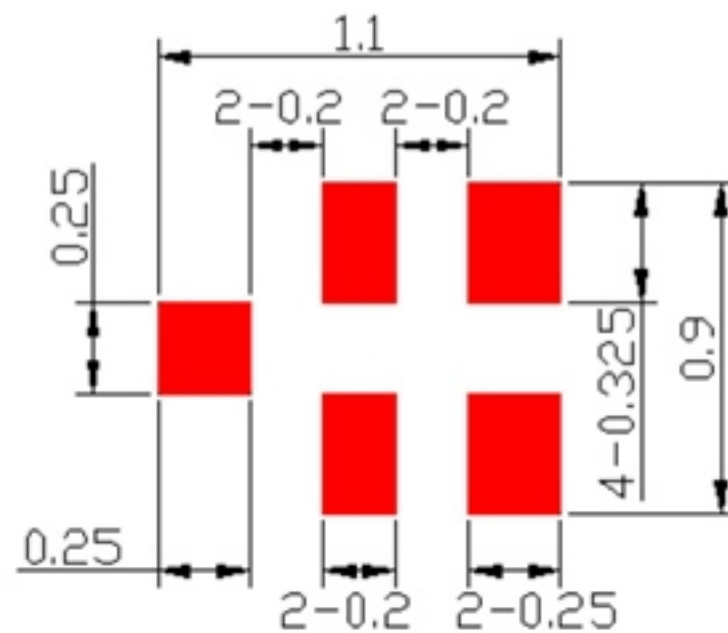


### D. MEASUREMENT CIRCUIT:



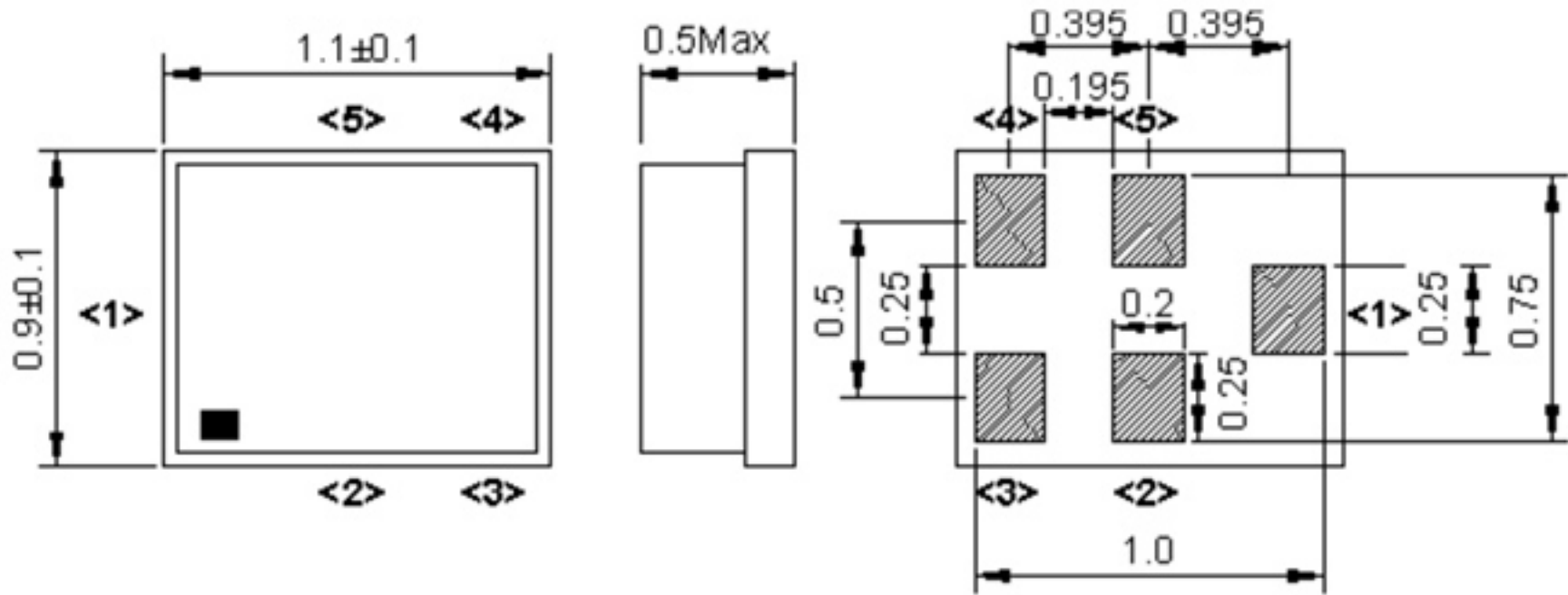
1 to 5: Pin No.

### E. PCB Footprint:



: Land Pattern  
Unit: mm

**F. OUTLINE DRAWING:**



Pin Configuration

Not Specified Tolerance : +/-0.1 mm  
Unit : m

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

**Top View (Sample Production):**



**Top View (Mass Production):**



△ : Date Code

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

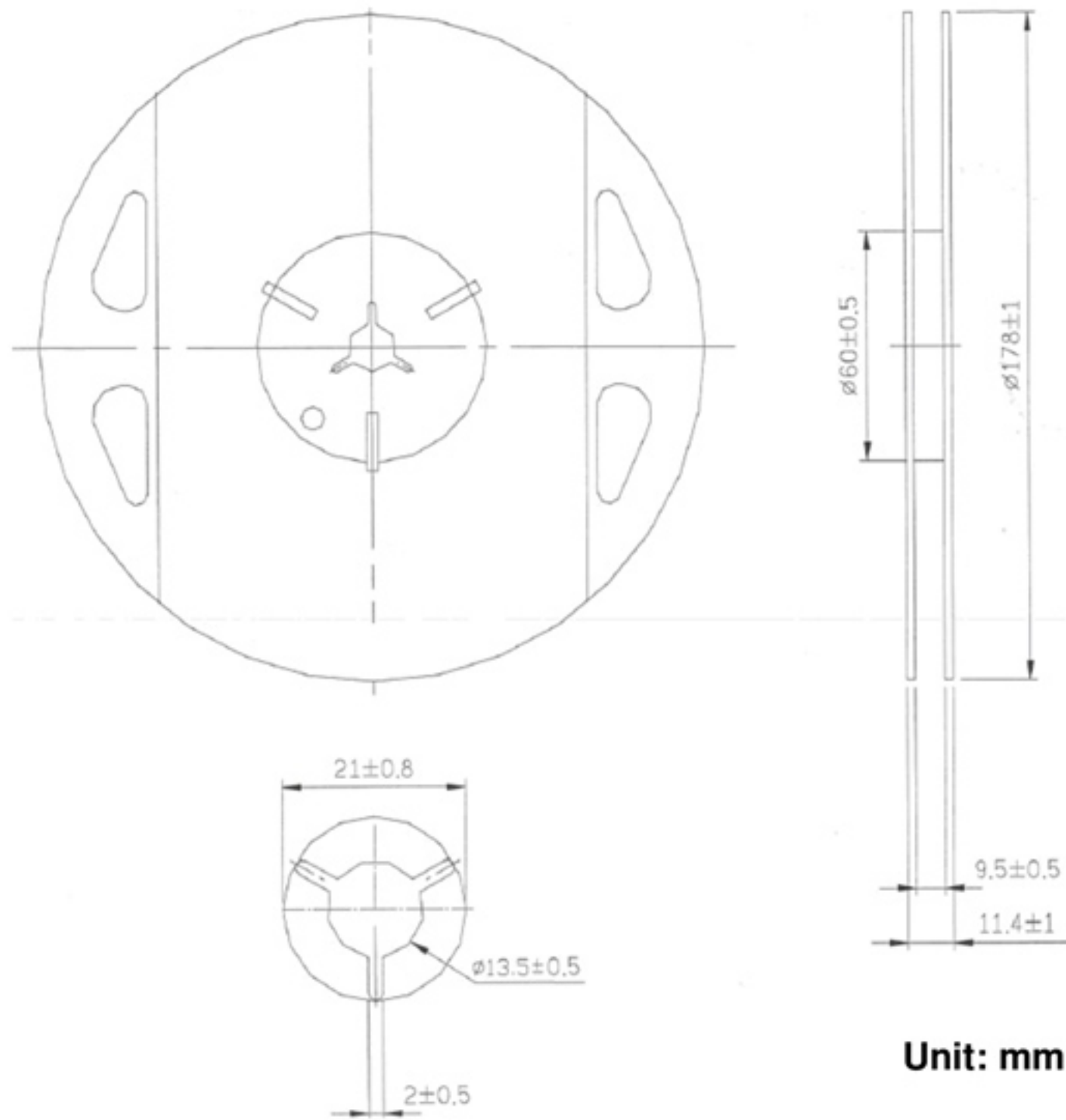
**Date Code:** Follow below table. (4-year cycle)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019 / 2023	a	b	c	d	e	f	g	h	j	k	l	m
2020 / 2024	n	p	q	r	s	t	u	v	w	x	y	z
2021 / 2025	A	B	C	D	E	F	G	H	J	K	L	M
2022 / 2026	N	P	Q	R	S	T	U	V	W	X	Y	Z

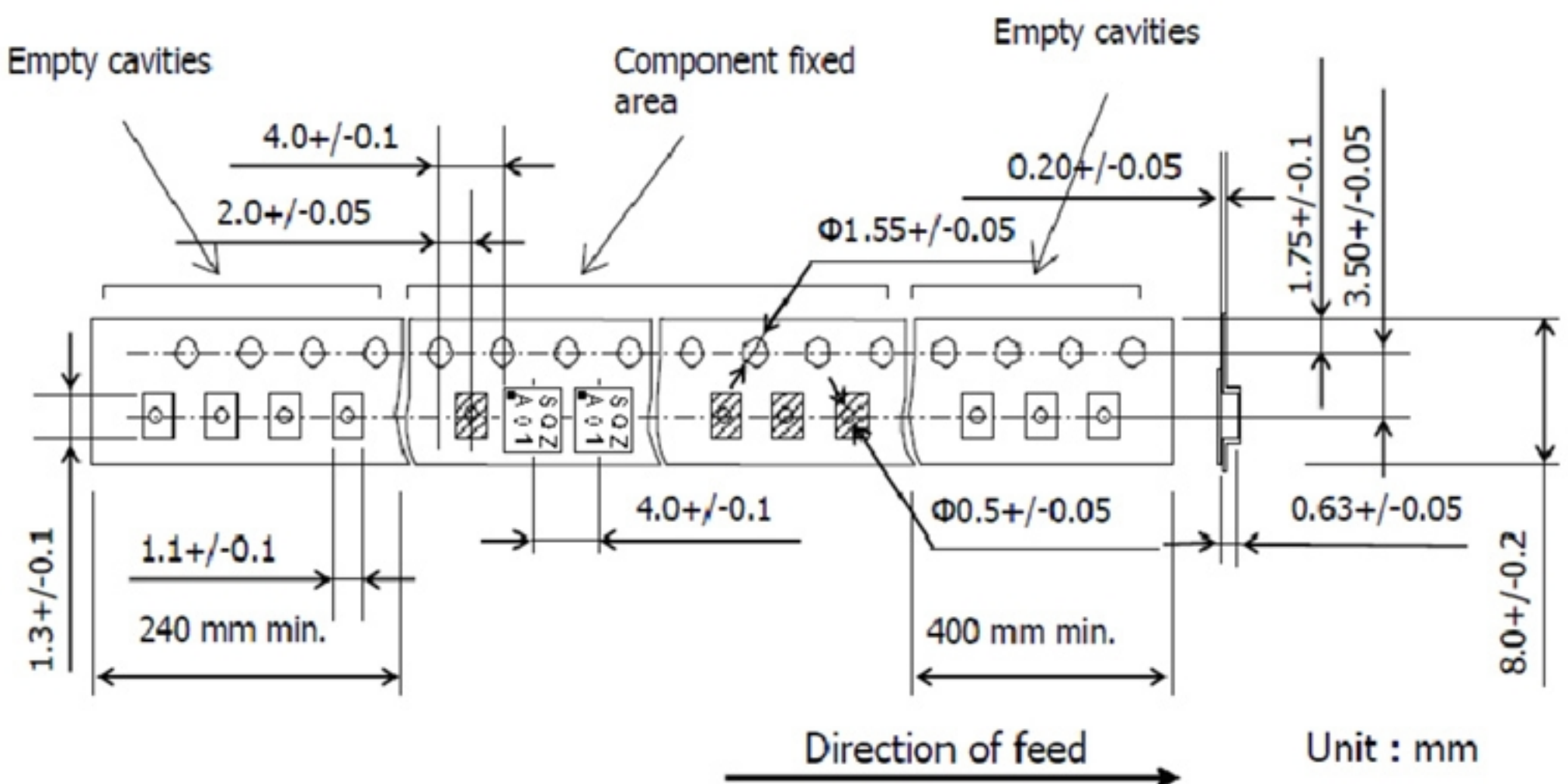
## G. PACKING:

### 1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



### 2. TAPE DIMENSION



## H. 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.

