

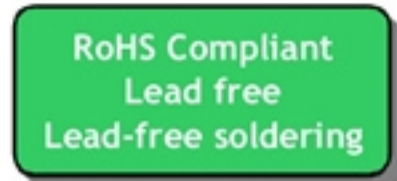
# SAW Filter 1585.655 MHz (BW 40.47Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2391A

REV. NO.:2.0

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 3(MSL3)



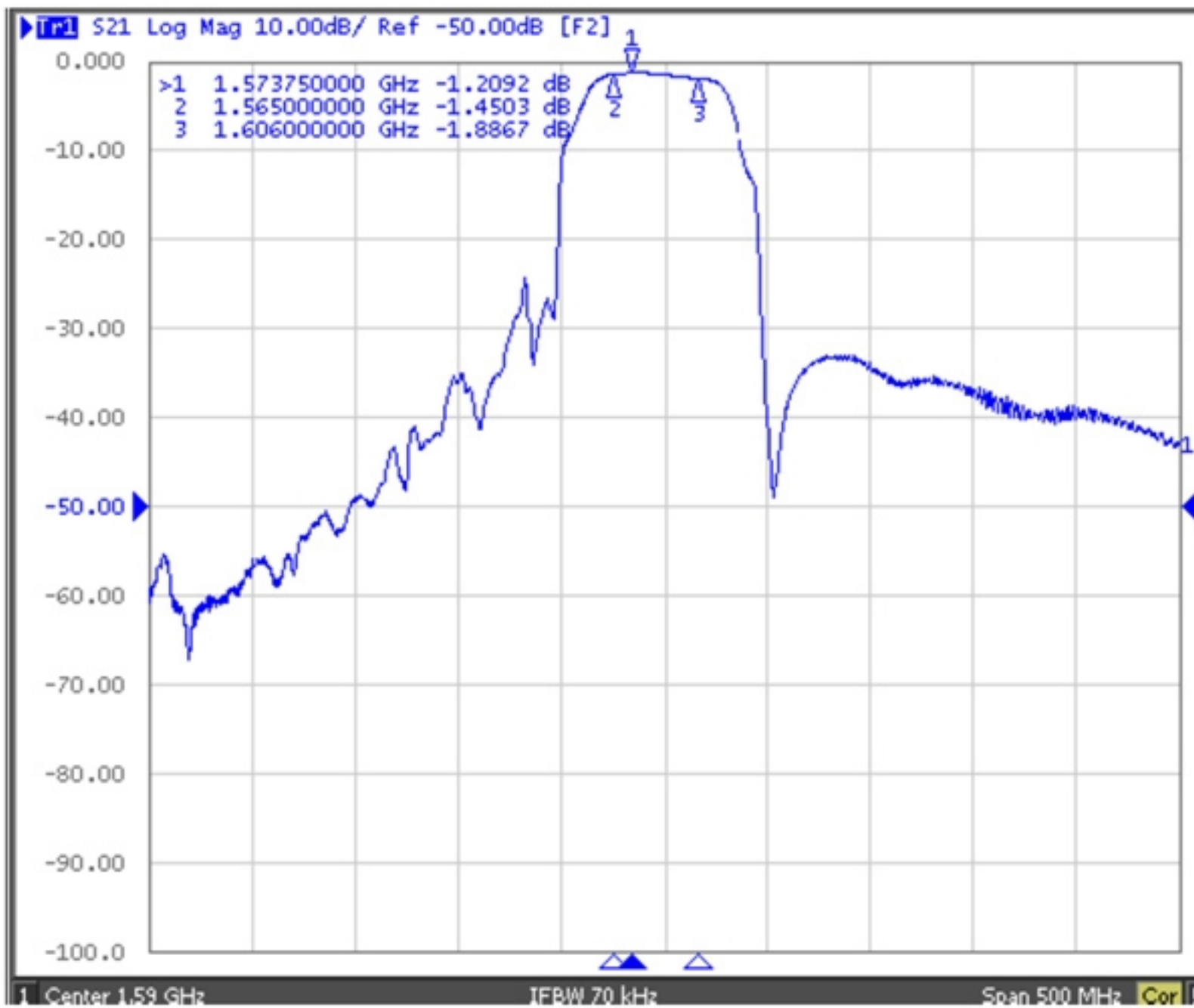
Electrostatic Sensitive Device (ESD)

## B. ELECTRICAL CHARACTERISTICS:

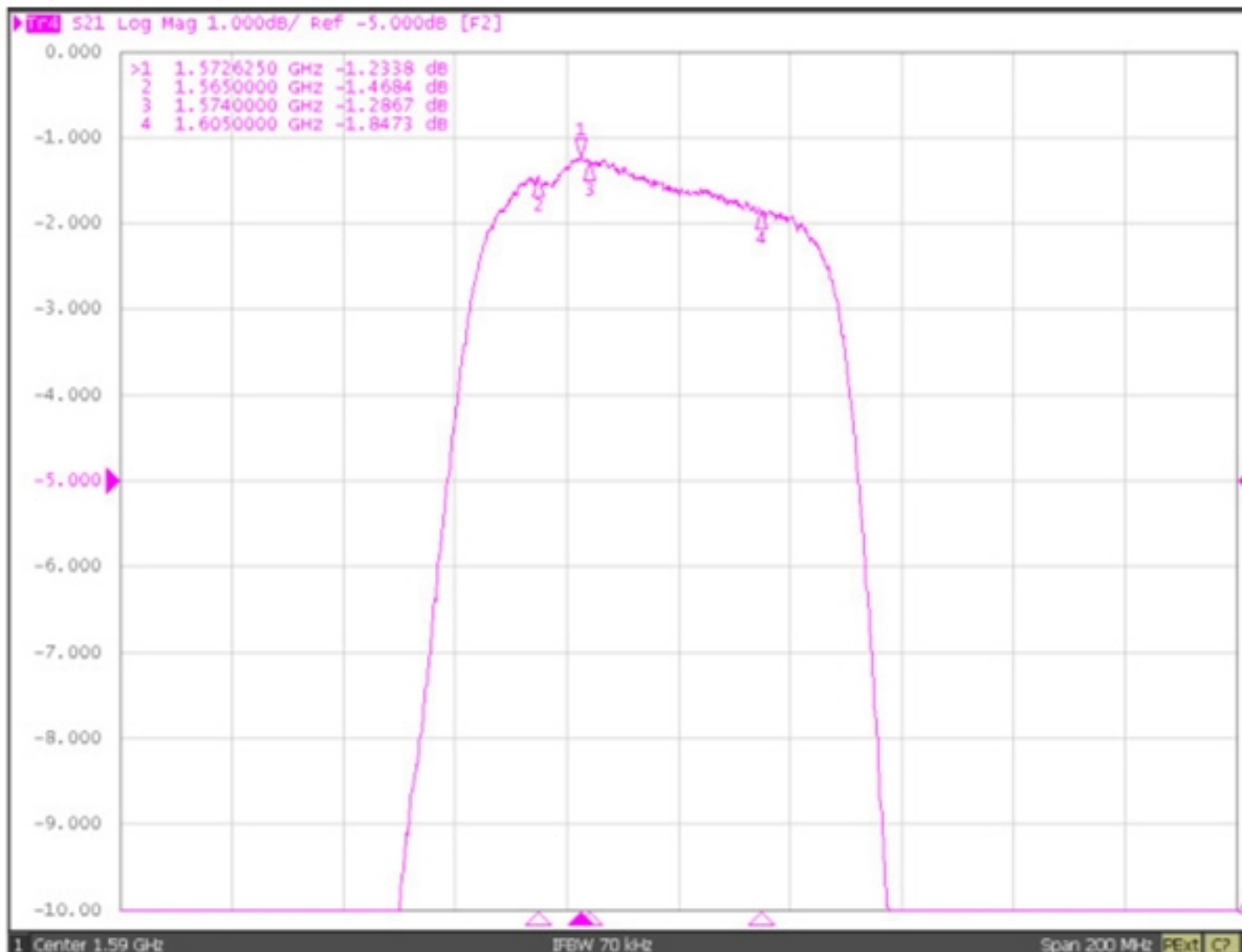
Item	Unit	Min.	Type.	Max. -40 °C to +85 °C
<b>Center Frequency</b> <b>Fc</b>	MHz	-	1585.655	-
<b>Insertion Loss</b> (1565.42~1585.42MHz)	dB	-	1.4	2.2
<b>Insertion Loss</b> (1574.42~1576.42MHz)		-	1.0	1.4
<b>Insertion Loss</b> (1597.55~1605.89 MHz)		-	1.6	2.2
<b>VSWR</b> (1565.42~1585.42MHz)		-	1.5	1.8
<b>VSWR</b> (1597.55~1605.89 MHz)		-	1.7	2
<b>Amplitude ripple</b> (1565.42~1605.89MHz)	dB	-	0.6	1.0
<b>Group Delay Variation</b>				
(1565.42~1585.42MHz)	ns		4	5
(1574.42~1576.42MHz)	ns		2	4
(1597.55~1605.89 MHz)	ns		3	5
<b>Attenuation</b>				
10 ~ 960 MHz	dB	40	45	-
1427 ~ 1453 MHz	dB	42	45	-
1453 ~ 1501 MHz	dB	30	35	-
1501 ~ 1525 MHz	dB	20	25	-
1626 ~ 1660 MHz	dB	4	8	-
1710 ~ 1785 MHz	dB	30	35	-
1850 ~ 1910 MHz	dB	40	45	-
1920 ~ 1980 MHz	dB	40	45	-
2110 ~ 2170 MHz	dB	35	40	-
2400 ~ 2500 MHz	dB	35	40	-
2500 ~ 2570 MHz	dB	35	38	-
Temperature coefficient	ppm/°C	-36		
Package size	mm	SMD 1.1x0.9		

### C.FREQUENCY CHARACTERISTICS:

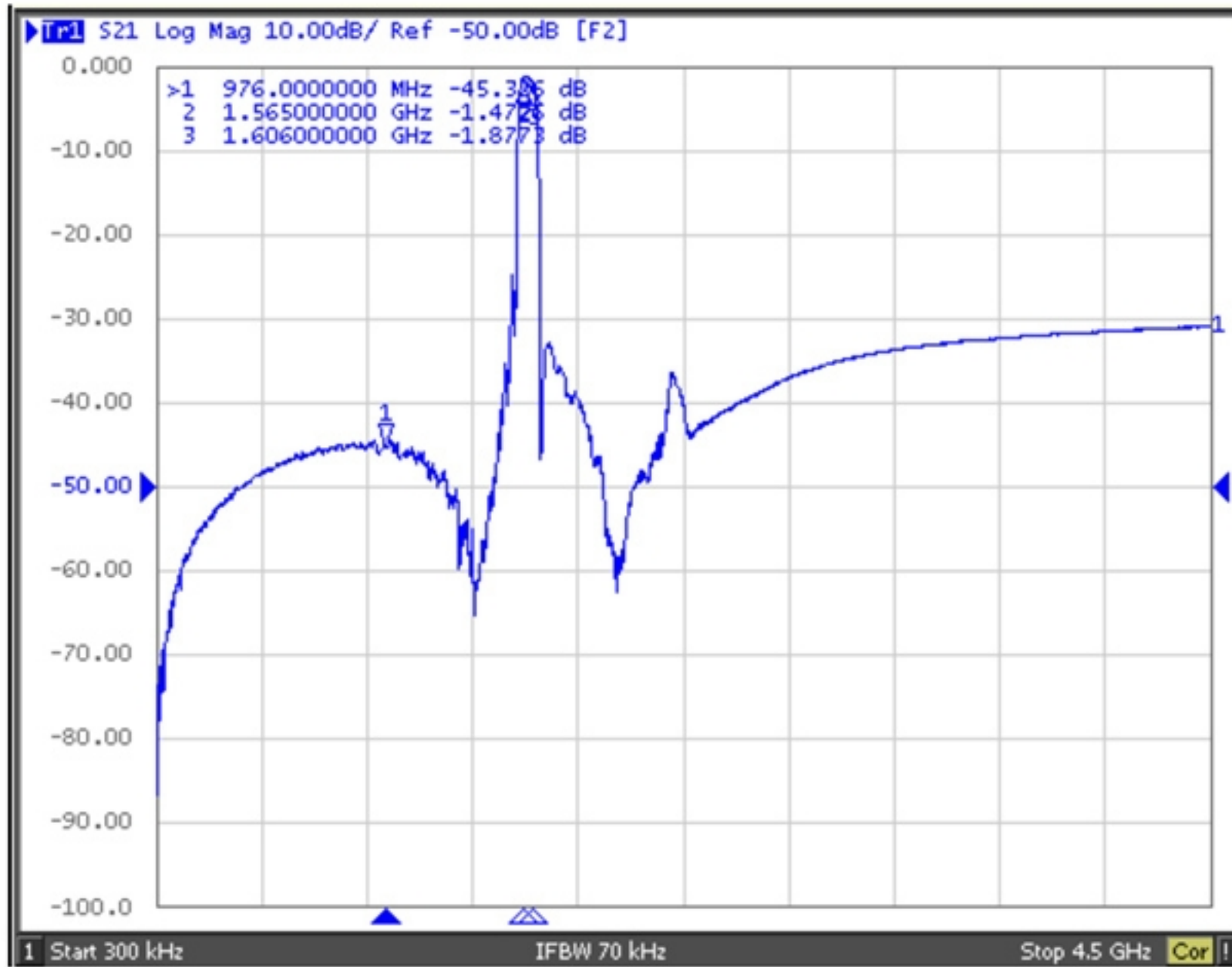
S21 response: (span 500MHz)



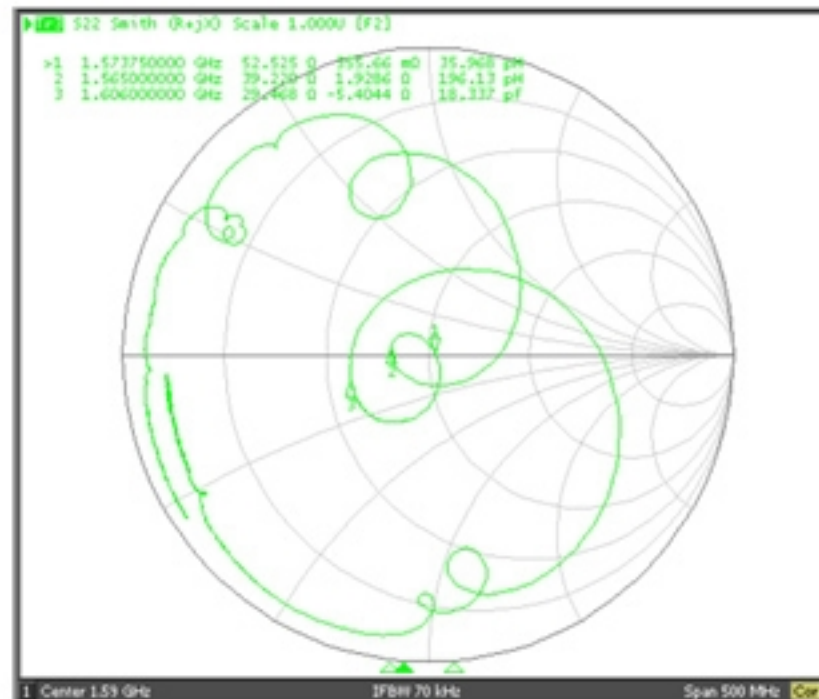
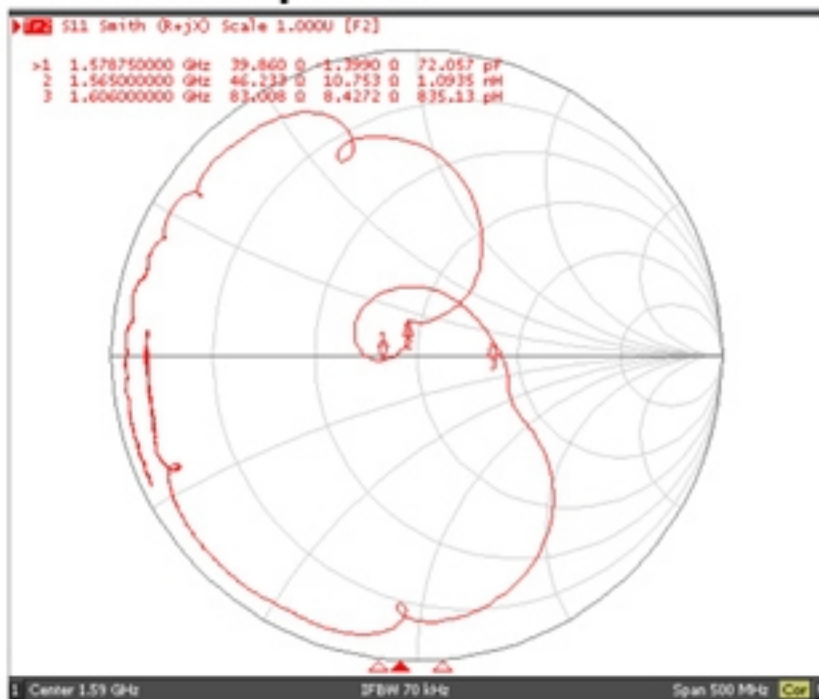
S21 response: (span 200MHz)



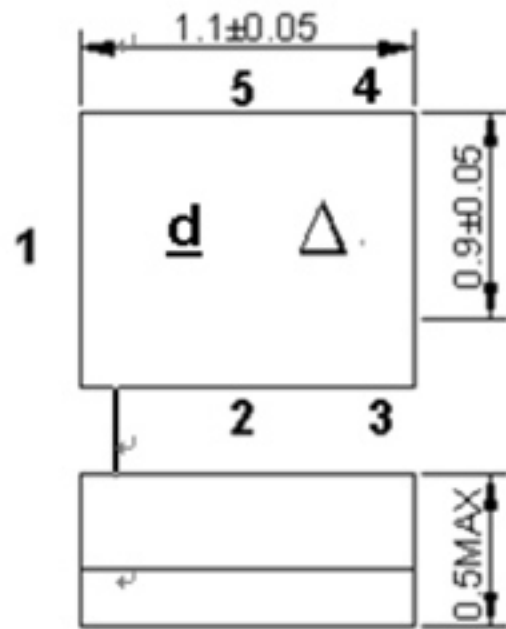
## S21 response: (span 4.5GHz)



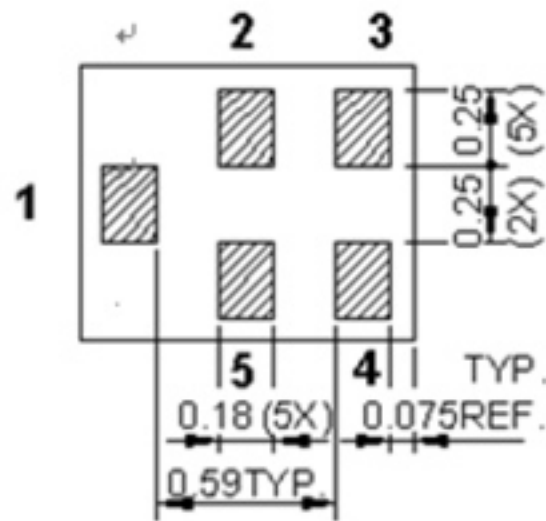
## S11/S22 response:



**D. OUTLINE DRAWING:**



All tolerances are +/-0.05 mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm

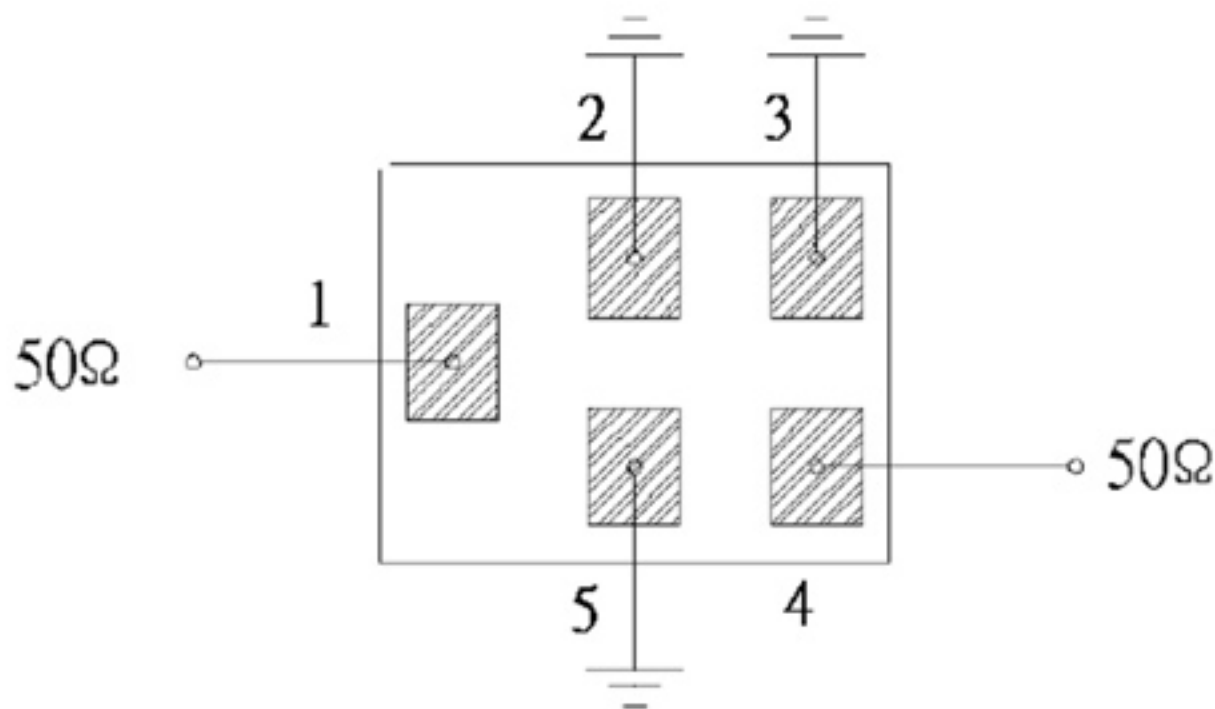


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

**Δ : Year/Month Code (Follow the table)**

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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>i</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>

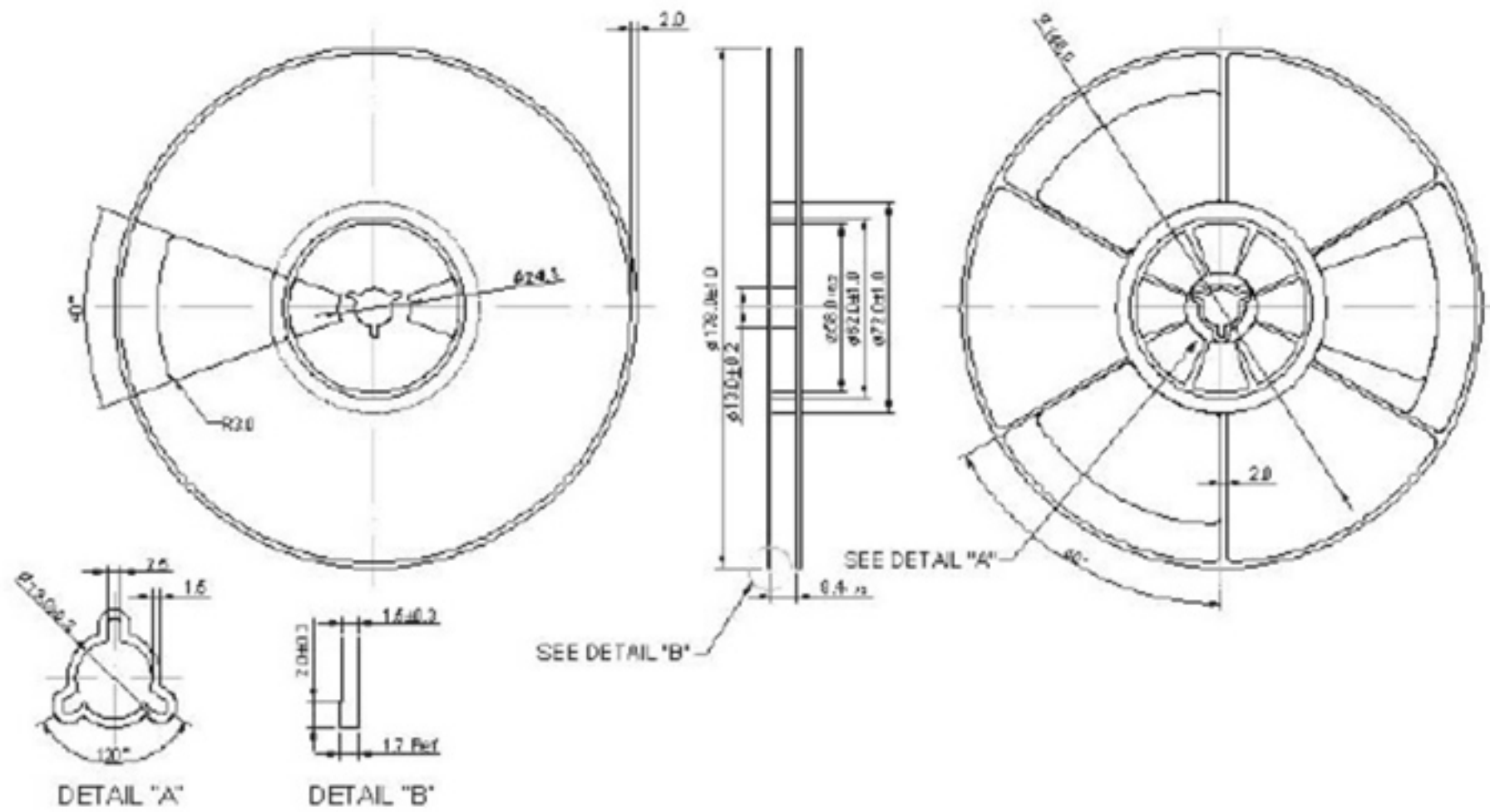
**E. MEASUREMENT CIRCUIT:**



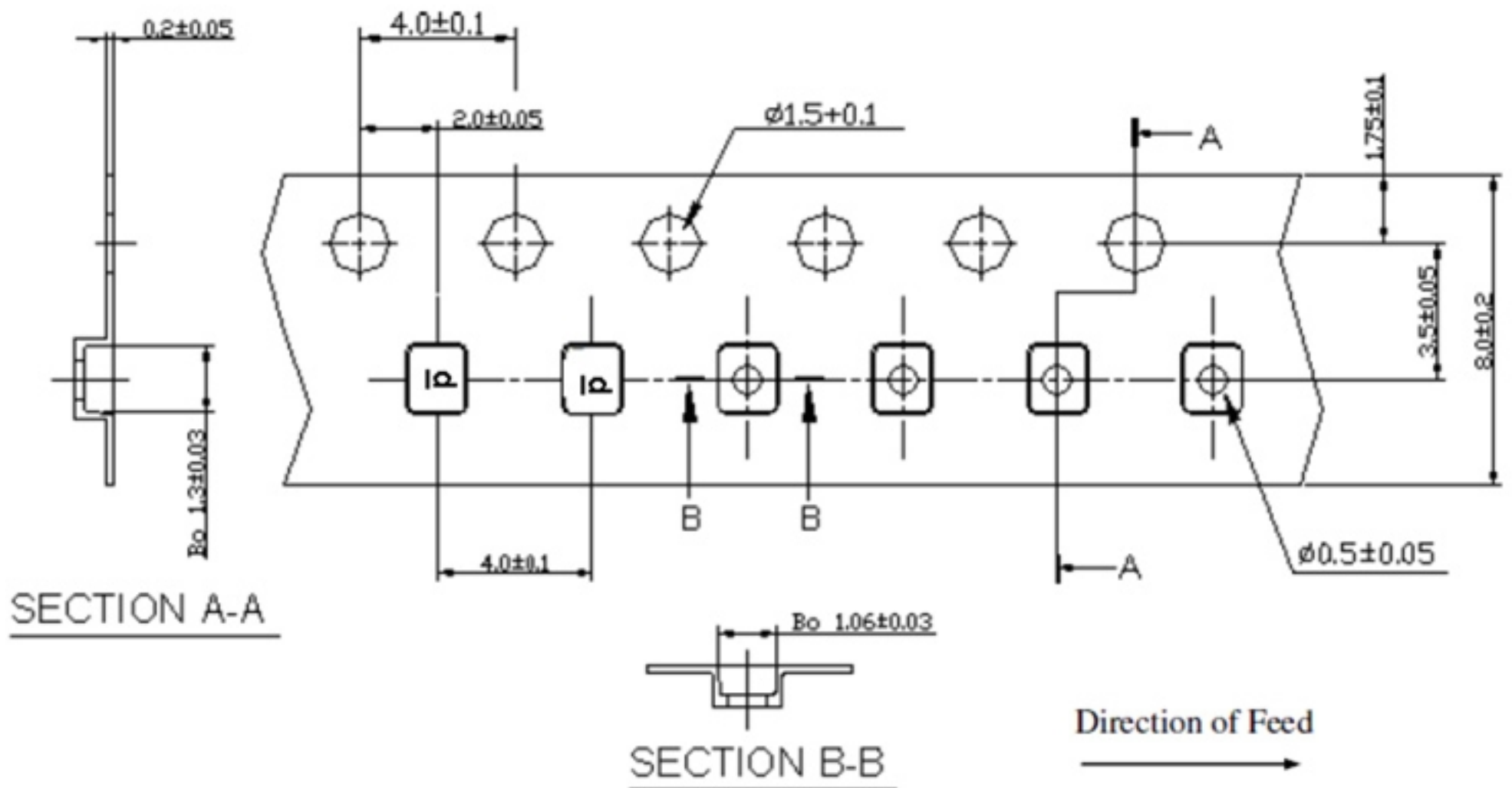
**F. PACKING:**

**1. REEL DIMENSION**

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



**2. TAPE DIMENSION**



### **G. 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.

