

# SAW Filter 1575.42 MHz 2 MHz BW for GPS

MODEL NO.: TA0664B

REV. NO.:3

## A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub> (1574.42 ~ 1576.42 MHz)
2. DC voltage: 7.5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +95°C
5. Moisture Sensitivity Level: Level 1 (**MSL 1**)

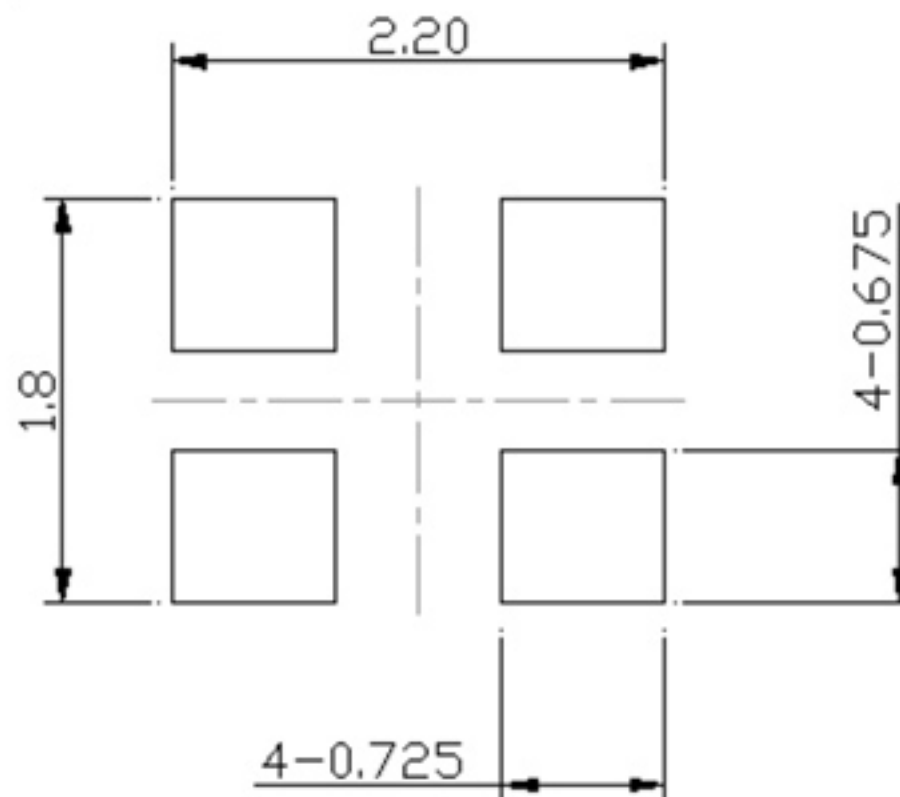
RoHS Compliant  
Lead free  
Lead-free soldering

**Electrostatic Sensitive Device (ESD)**

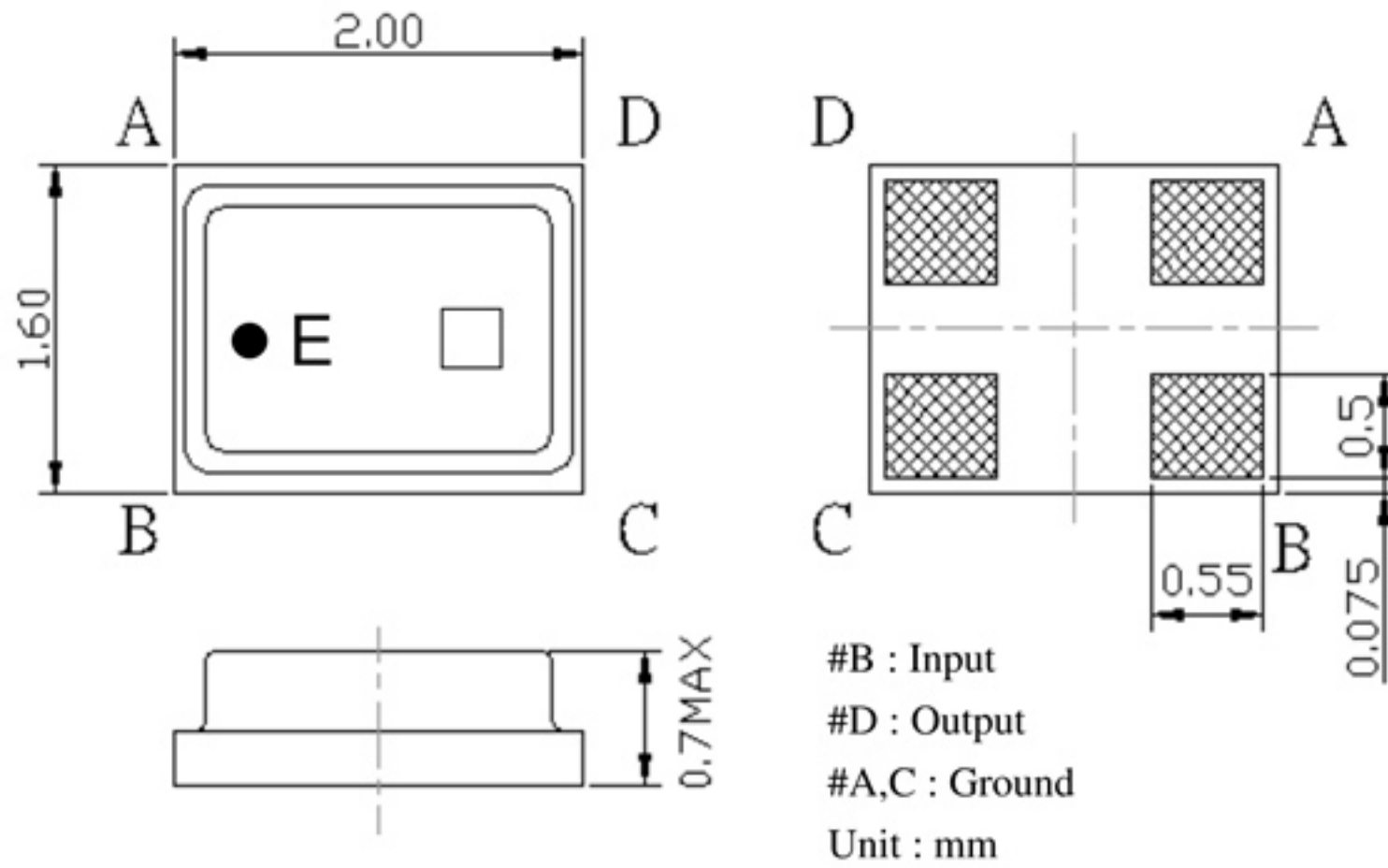
## B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
<b>Center frequency</b>	<b>Fc</b>	(MHz)	-	1575.42	-
<b>Insertion loss</b> (1574.42~1576.42 MHz)	<b>IL</b>	(dB)	-	2.8	3.5
<b>Amplitude ripple</b> (1574.42~1576.42 MHz)		(dB)	-	0.5	1.5
<b>Attenuation</b> (Reference level from 0 dB)					
1475.42	MHz	(dB)	35	55	-
1505	MHz	(dB)	41	47	-
1535.42	MHz	(dB)	30	52	-
1559	MHz ( <b>at +25°C only</b> )	(dB)	28	33	-
1615.42	MHz	(dB)	30	35	-
1675.42	MHz	(dB)	40	64	-
<b>VSWR</b> (1574.42~1576.42 MHz)			-	1.5	2.5
<b>Source impedance</b>	<b>Zs</b>	(Ω)	-	50	-
<b>Load impedance</b>	<b>ZL</b>	(Ω)	-	50	-

## C. PCB FOOTPRINT:



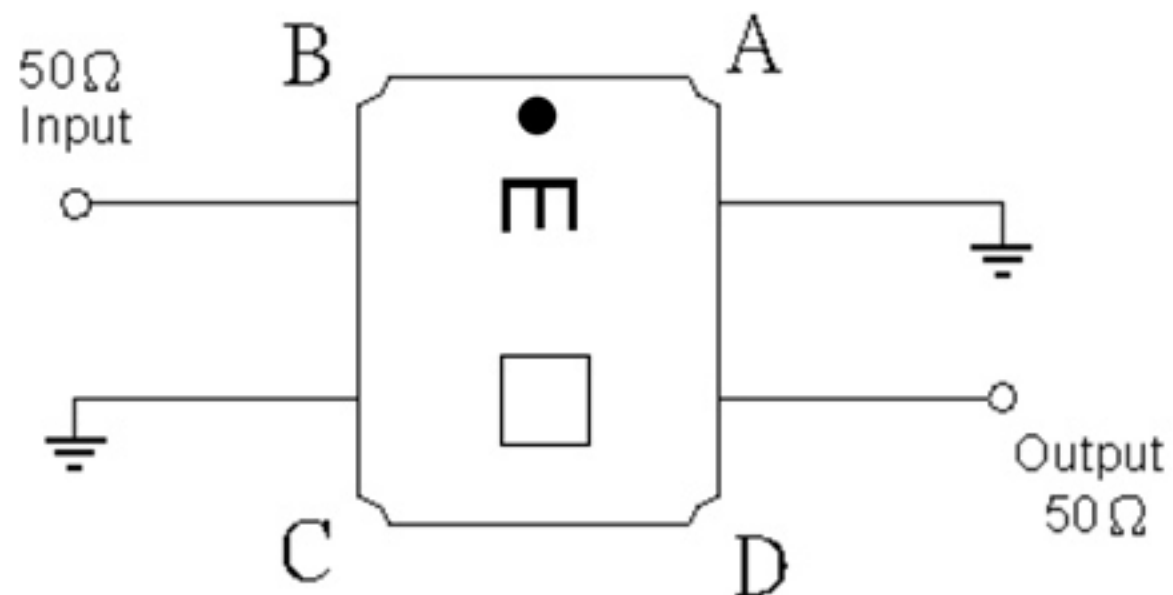
**D. OUTLINE DRAWING:**



□ : Year/Month Code (Follow the table)

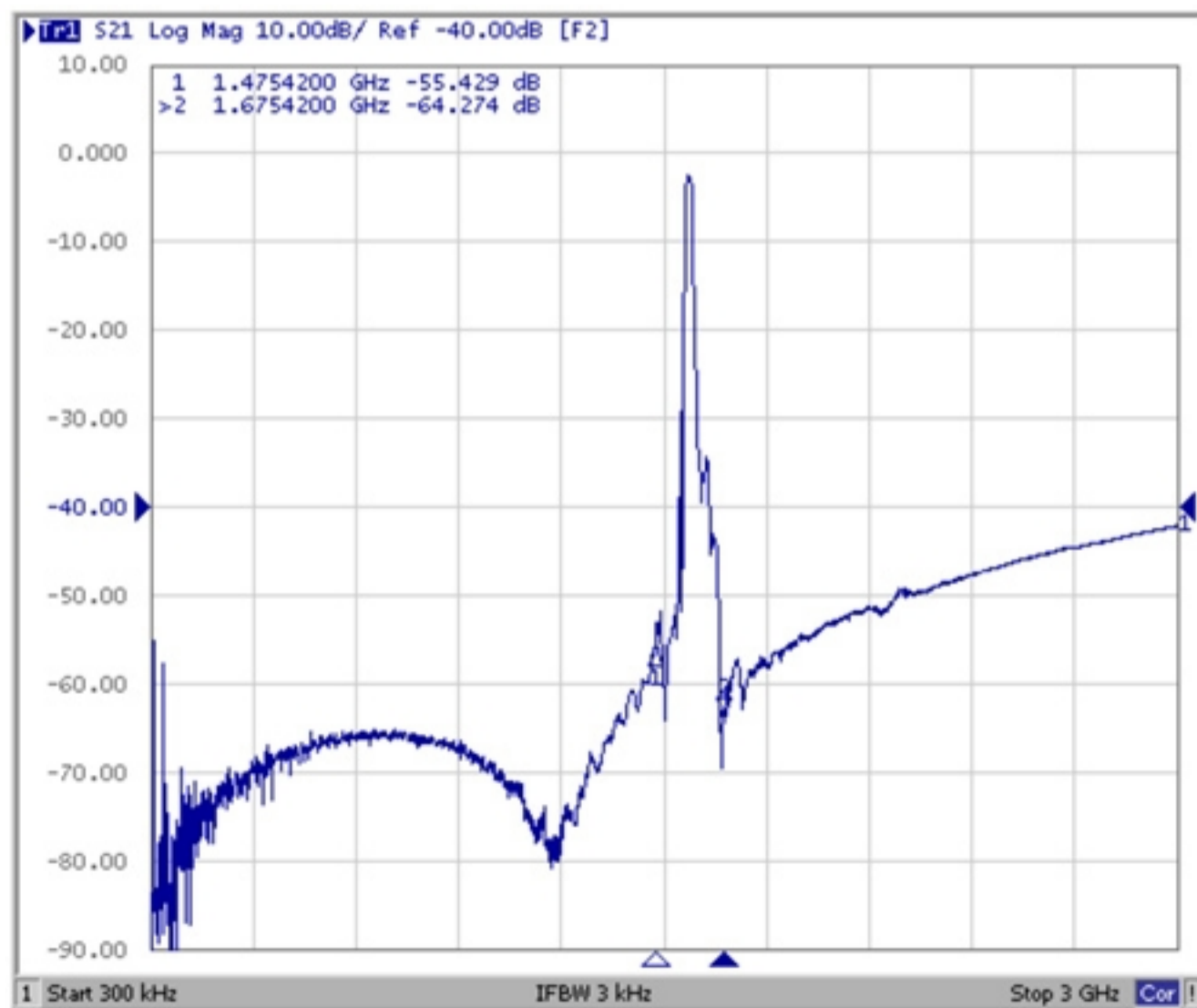
Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2018	A	B	C	D	E	F	G	H	J	K	L	M
2019	N	P	Q	R	S	T	U	V	W	X	Y	Z
2020	a	b	c	d	e	f	g	h	j	k	i	m
2021	n	p	q	r	s	t	u	v	w	x	y	z
2022	A	B	C	D	E	F	G	H	J	K	L	M
2023	N	P	Q	R	S	T	U	V	W	X	Y	Z

**E. MEASUREMENT CIRCUIT:**



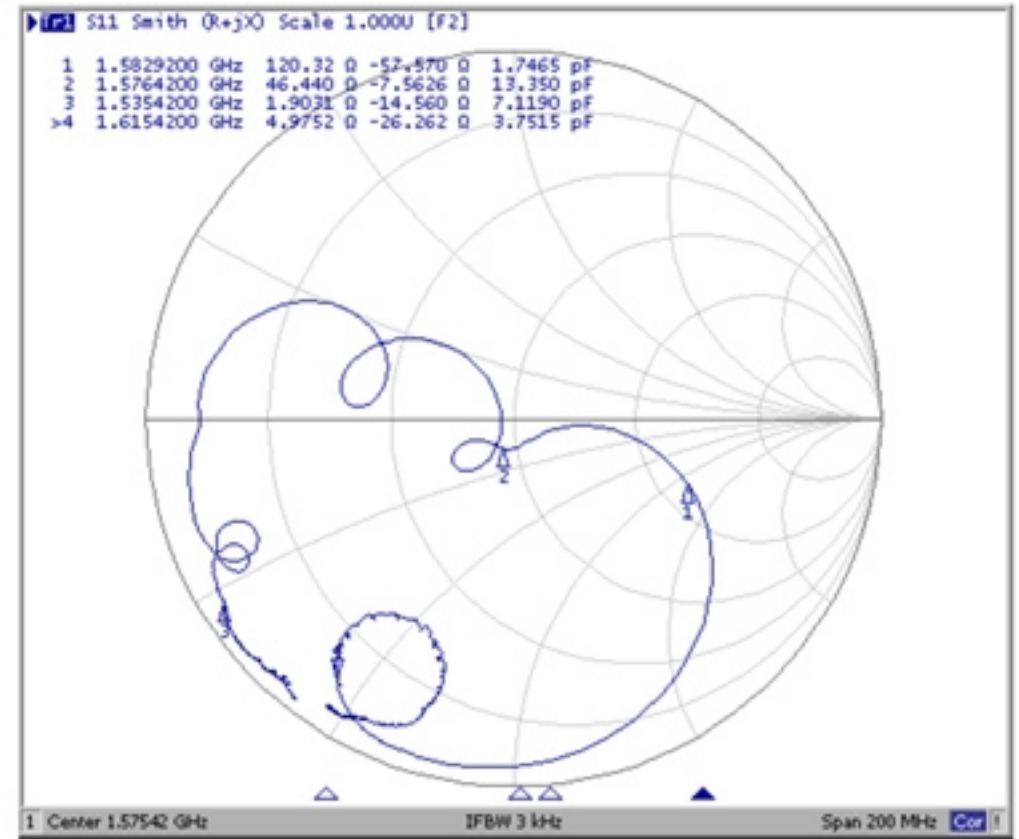
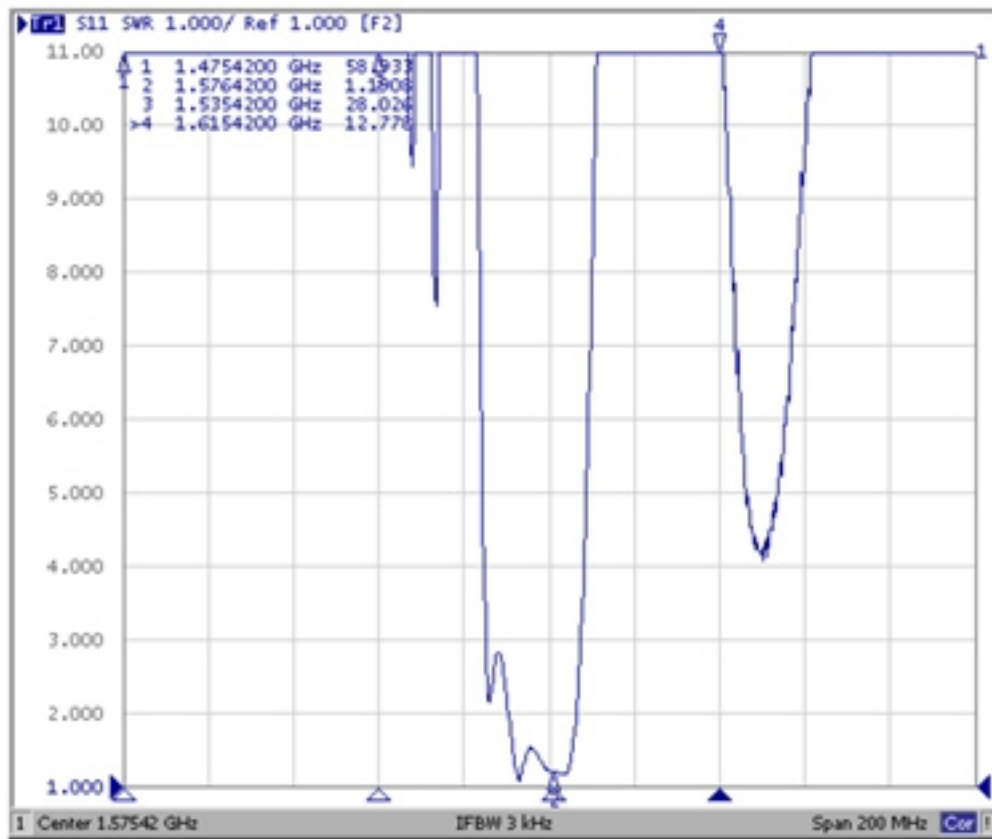
## F. FREQUENCY CHARACTERISTICS:

### Transfer function

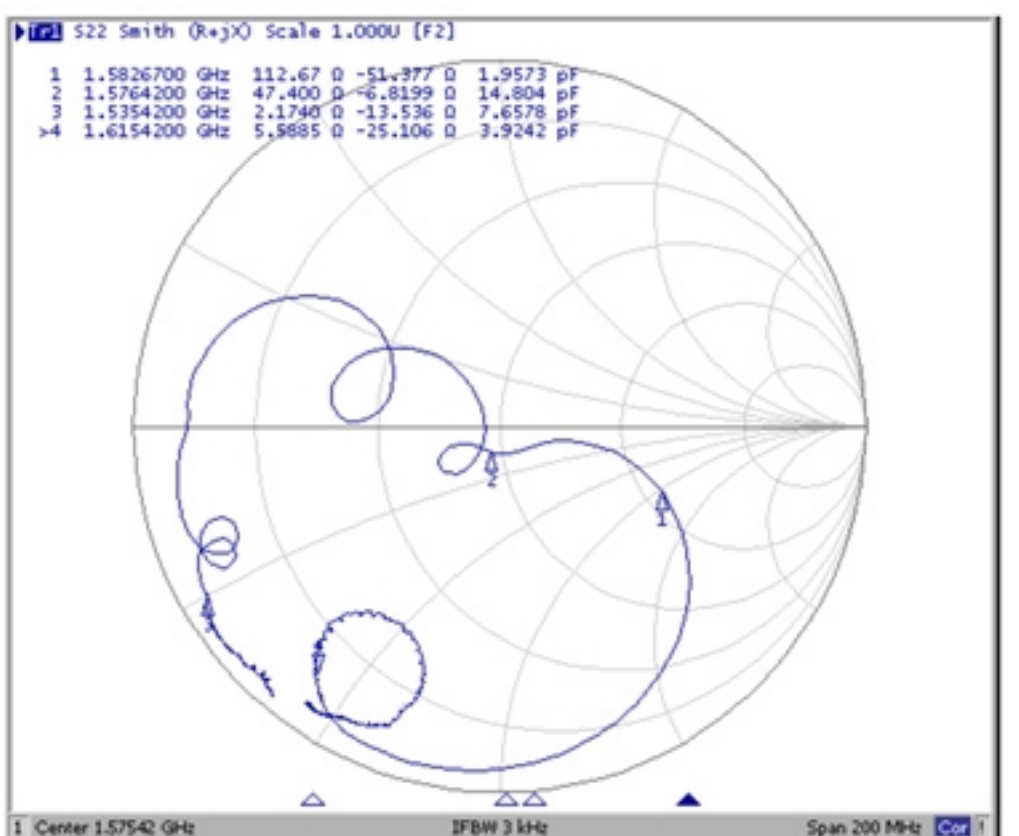
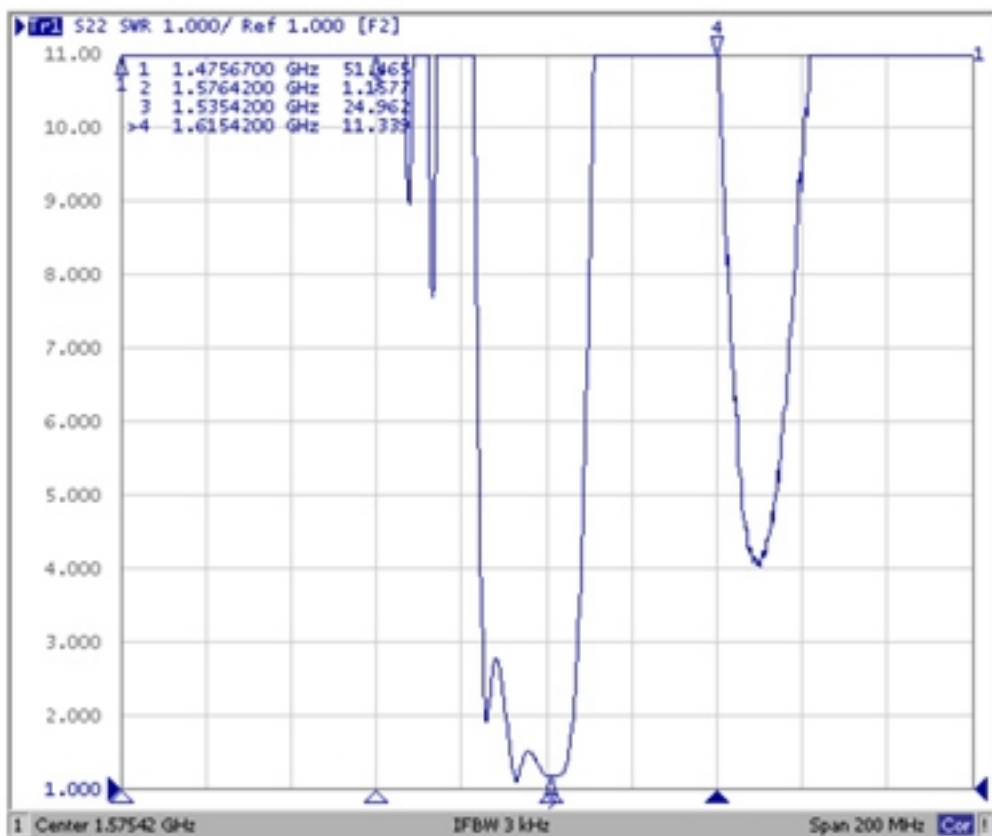


## Reflections Functions:

### S11 VSWR



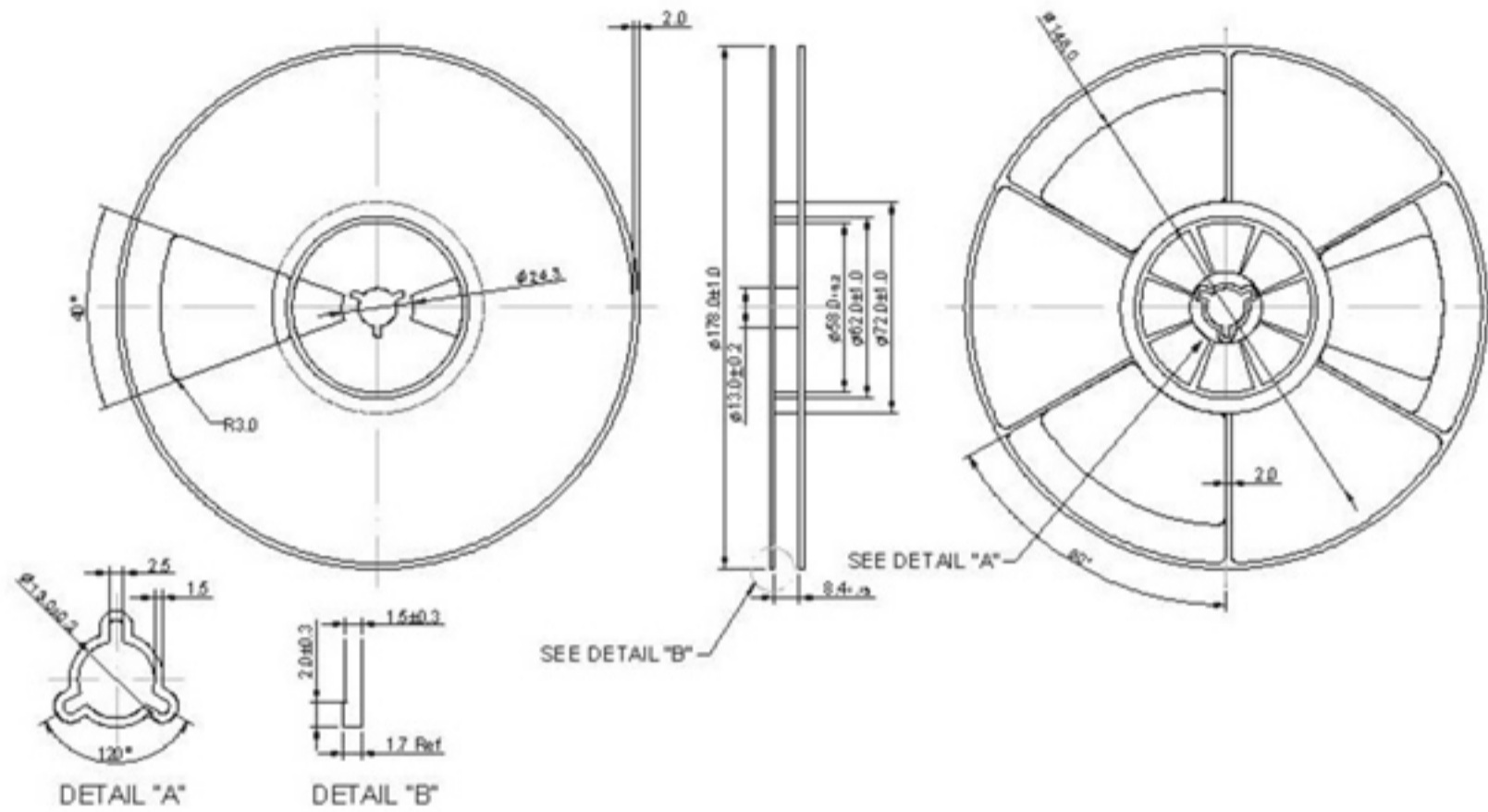
### S22 VSWR



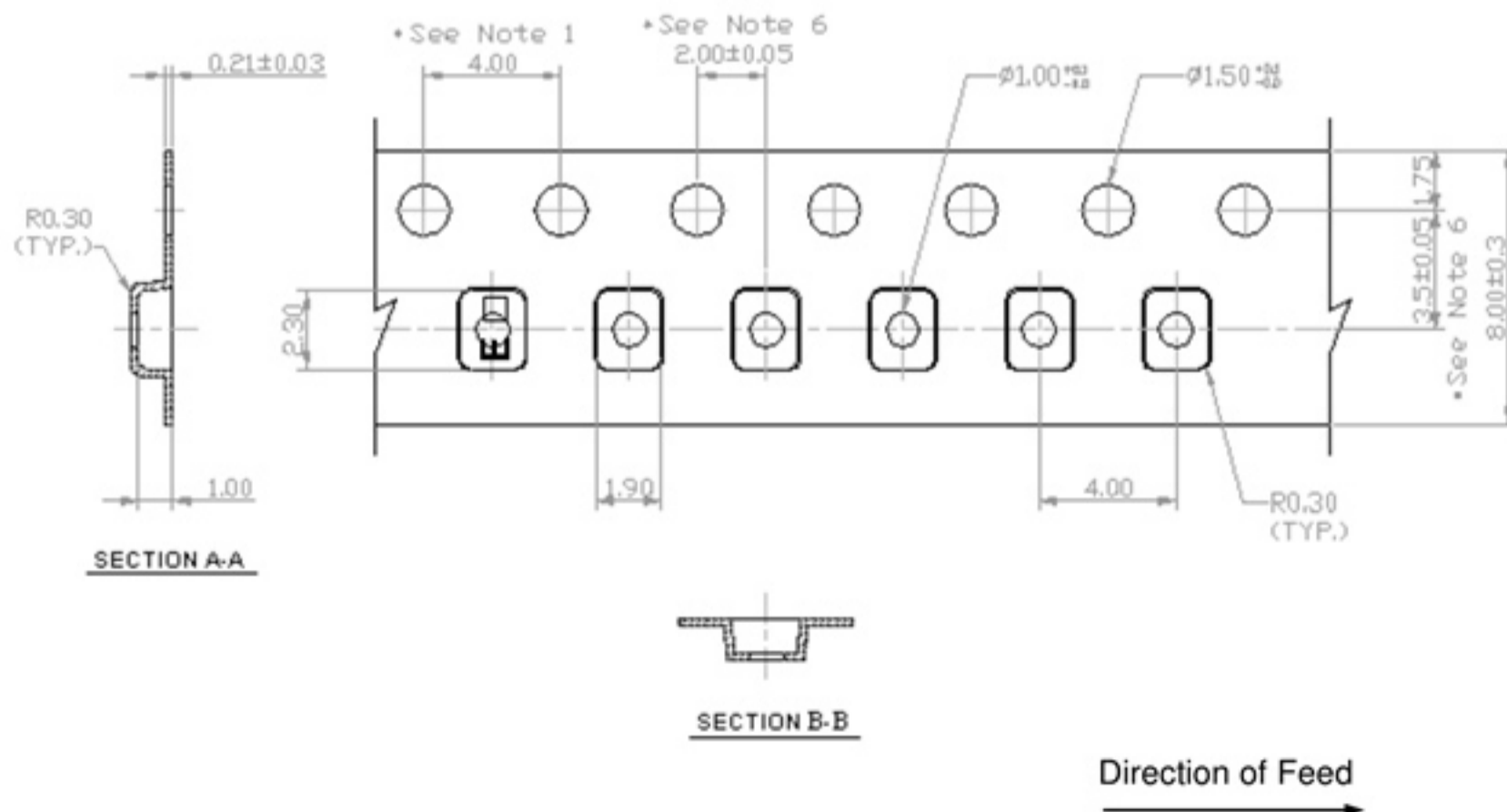
## G. PACKING:

### 1. REEL DIMENSION

( Reel Count : 7"=3000 typ. Or per the request of customer order)



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

