

SAW Filter 1176.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2471A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm (2000h)
2. DC Voltage : 3 V
3. Operating Temperature: -20 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 2a

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : $T_{spec} = -20\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$

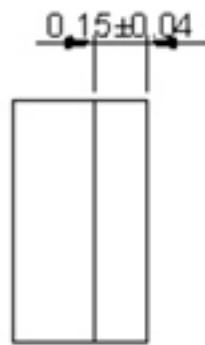
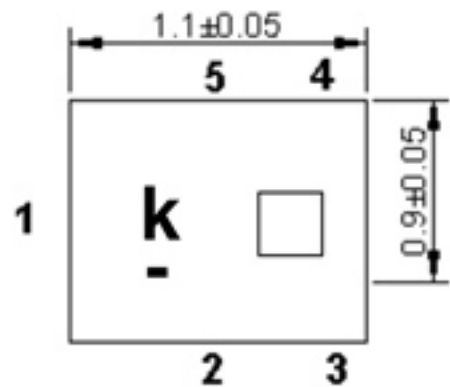
Terminating source impedance : $Z_s = 50\ \Omega$

Terminating load impedance : $Z_L = 50\ \Omega$

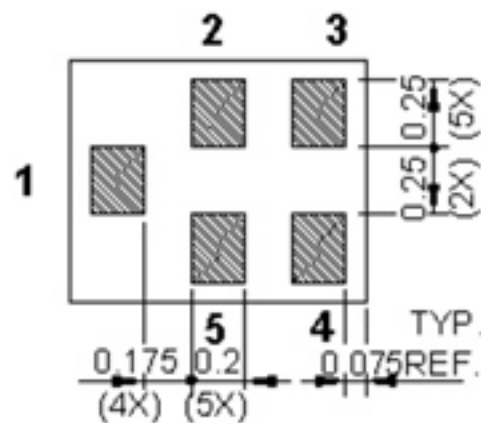
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	1176.5	-
Insertion Loss (1164~1189 MHz) IL	dB	-	1.8	2.4
Amplitude Ripple (1164~1189 MHz)	dB _{p-p}	-	0.5	1.3
VSWR (1164~1189 MHz)		-	1.8	2.1
Group Delay Deviation (1164~1189 MHz)	ns	-	7	13
Attenuation (refer to 0 dB)				
100 ~ 814 MHz	dB	53	63	-
814 ~ 849 MHz	dB	53	62	-
849 ~ 980 MHz	dB	51	57	-
980 ~ 1010 MHz	dB	51	56	-
1010 ~ 1100 MHz	dB	50	54	-
1100 ~ 1130 MHz	dB	40	46	-
1250 ~ 1427 MHz	dB	25	50	-
1427 ~ 1463 MHz	dB	45	50	-
1710 ~ 2025 MHz	dB	40	45	-
2300 ~ 2690 MHz	dB	38	42	-
2690 ~ 3000 MHz	dB	37	42	-

3000 ~ 6000 MHz	dB	17	22	-
Temperature Coefficient	ppm/K	-	-36	-

C.OUTLINE DRAWING:



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

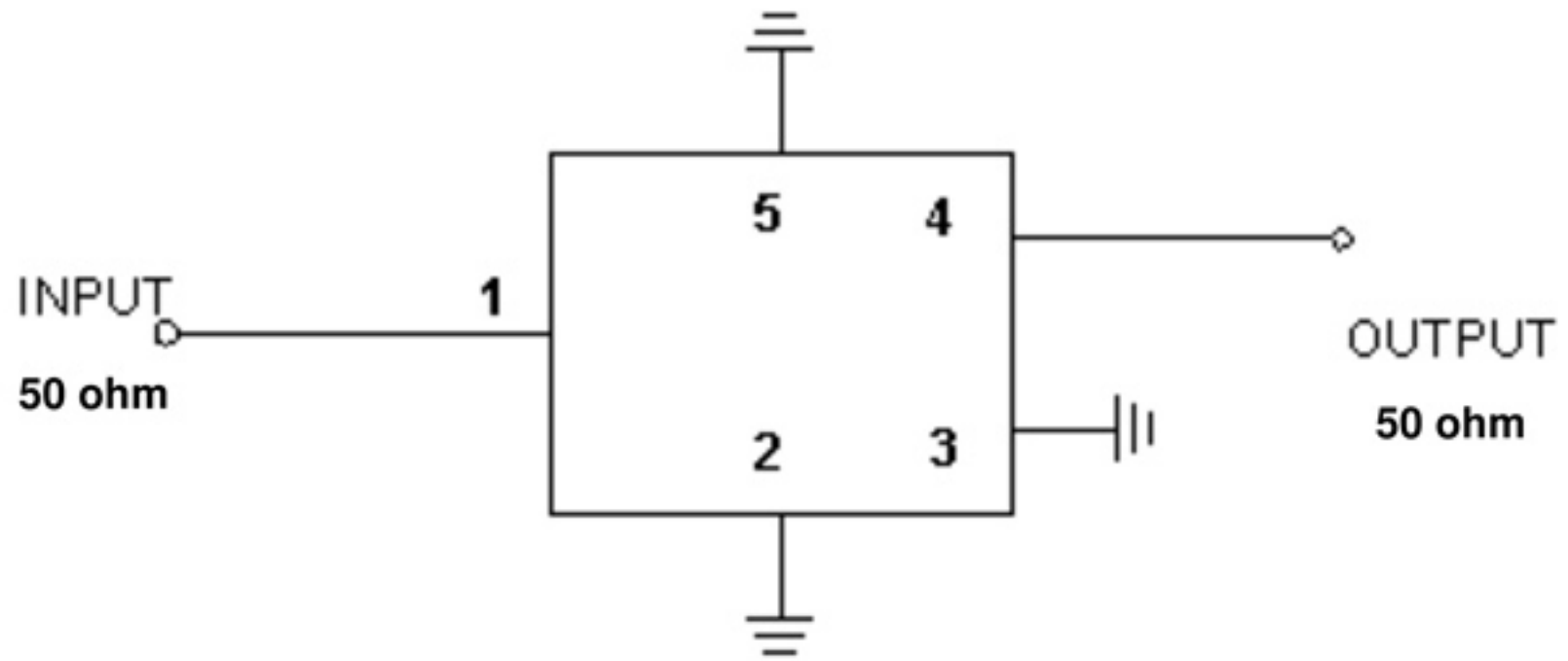


1 : Input
 4 : Output
 2, 3, 5 : Ground

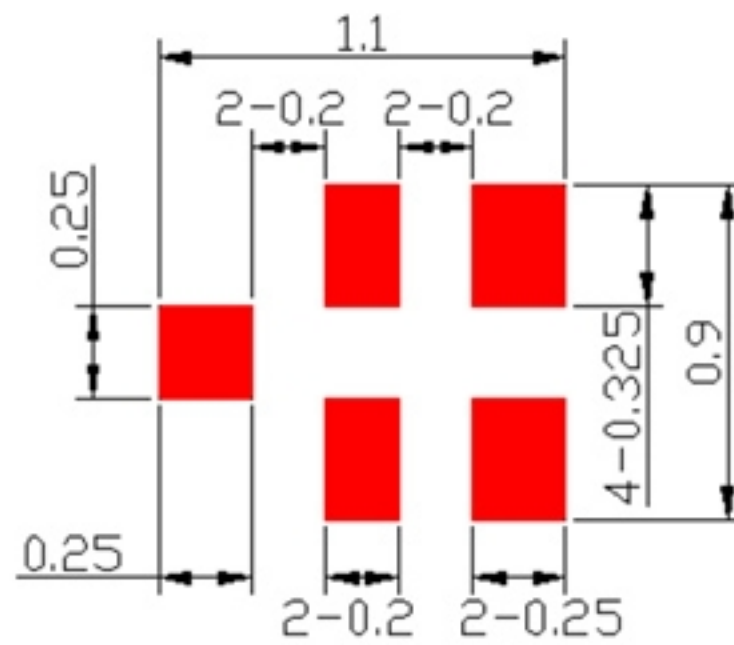
□ : Year/Month Code (Follow the table)

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>

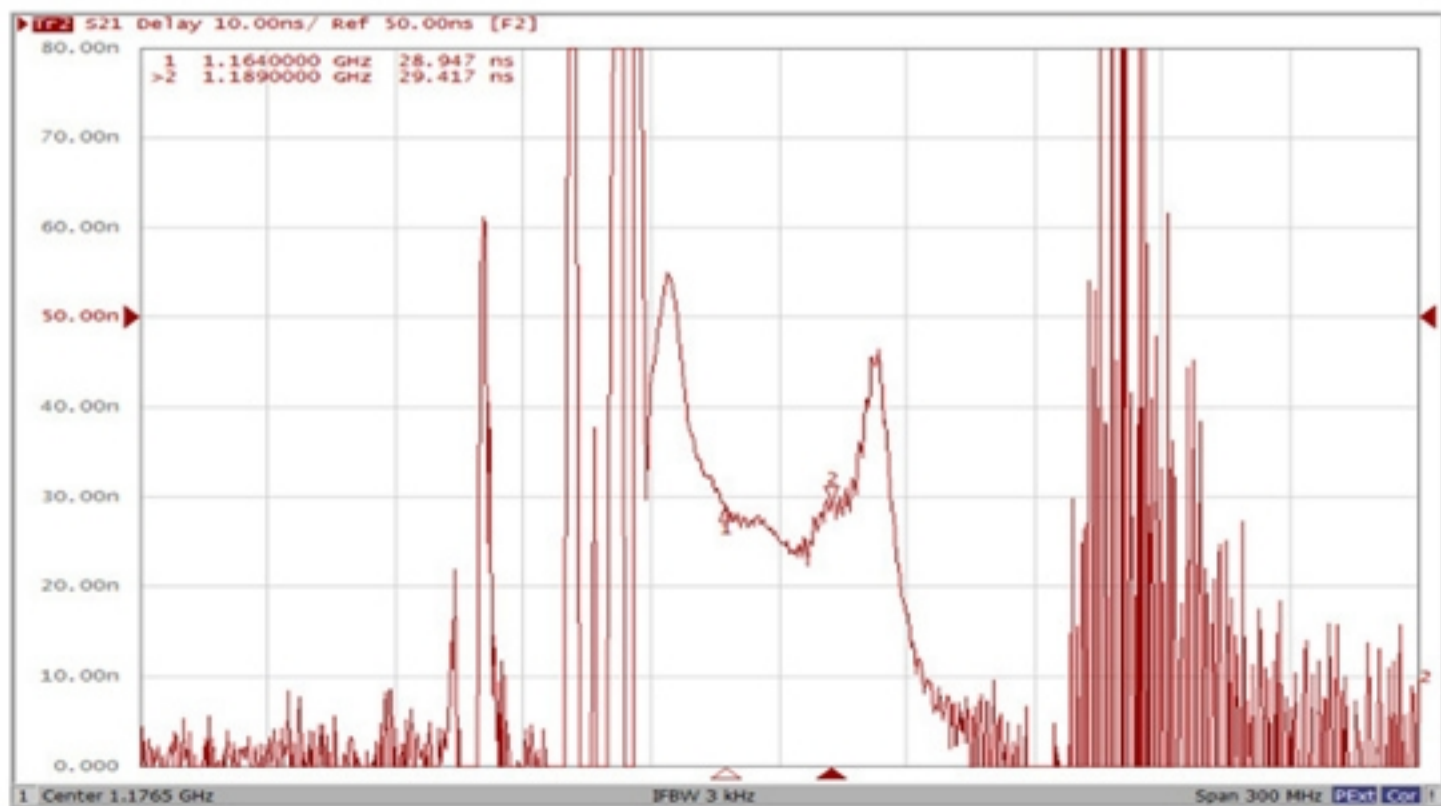
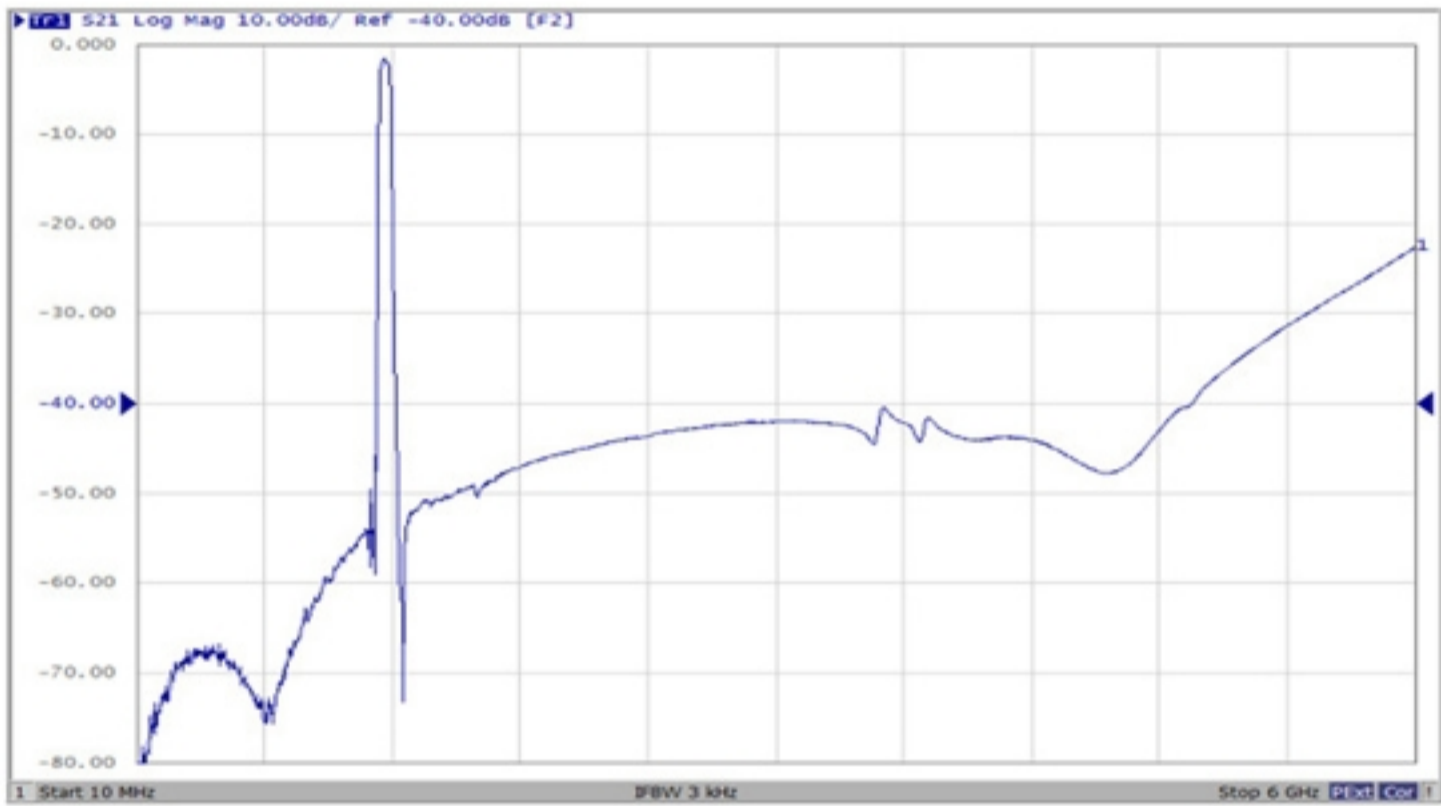
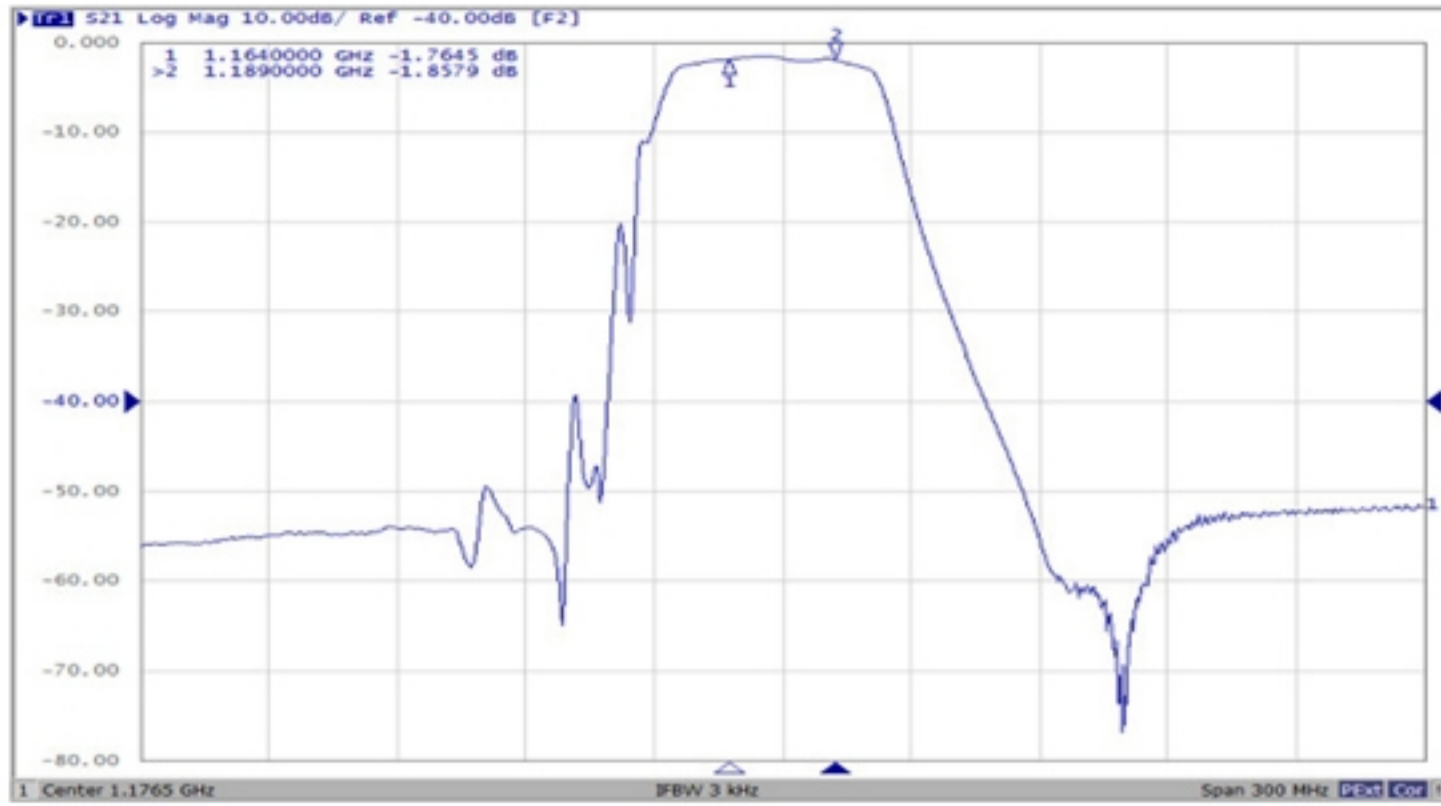
D. MEASUREMENT CIRCUIT:

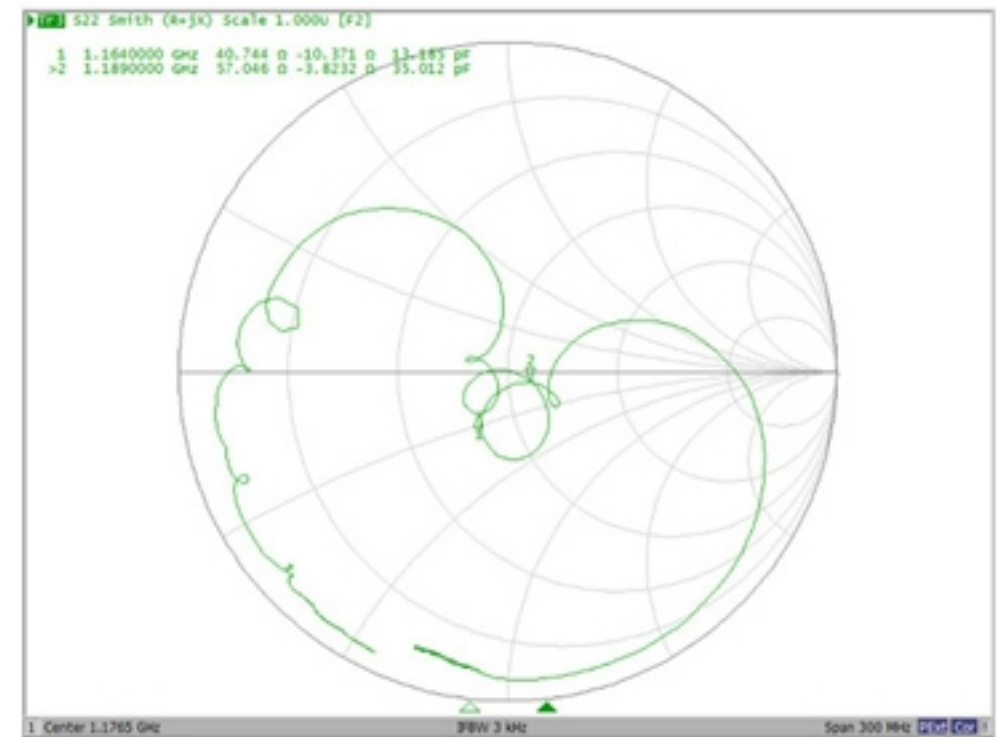
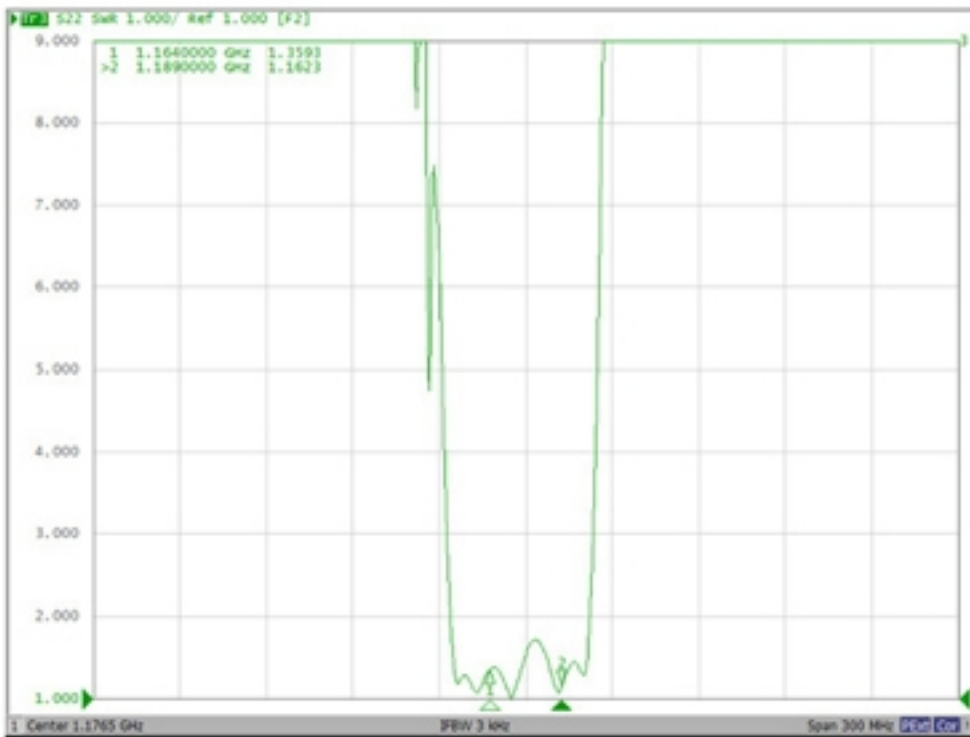
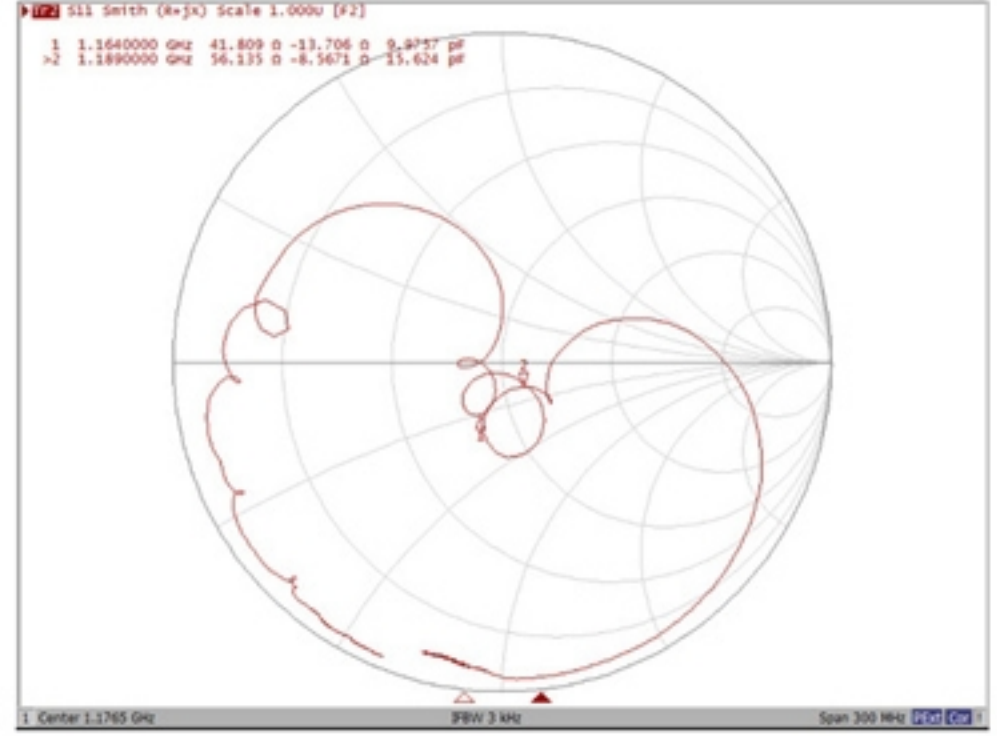
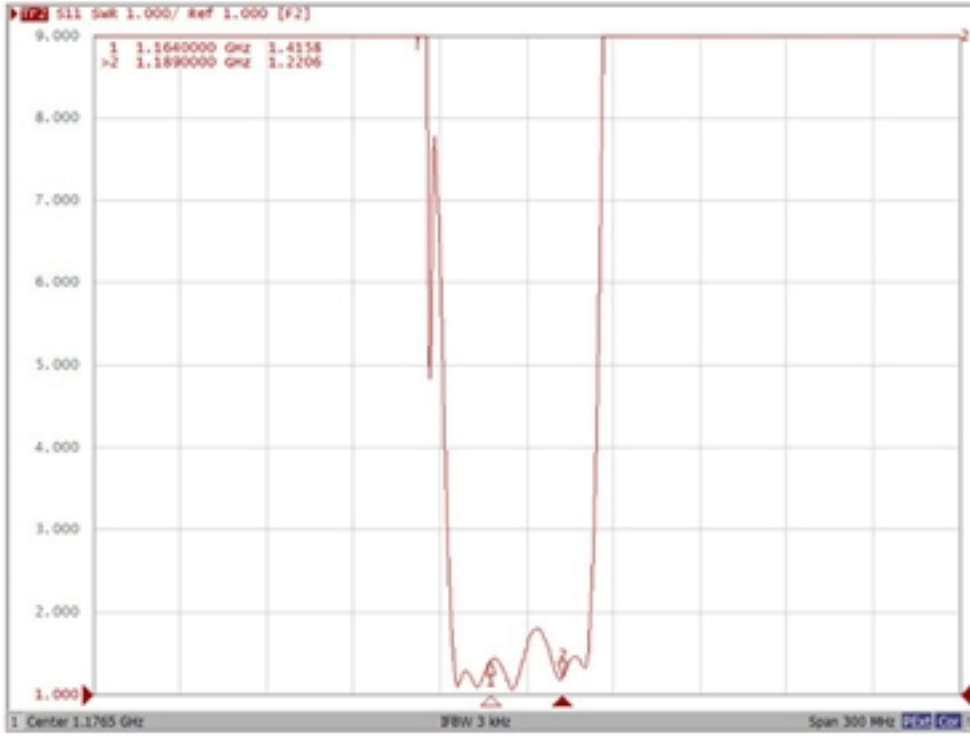


E. PCB Footprint :



F. Frequency Characteristics:

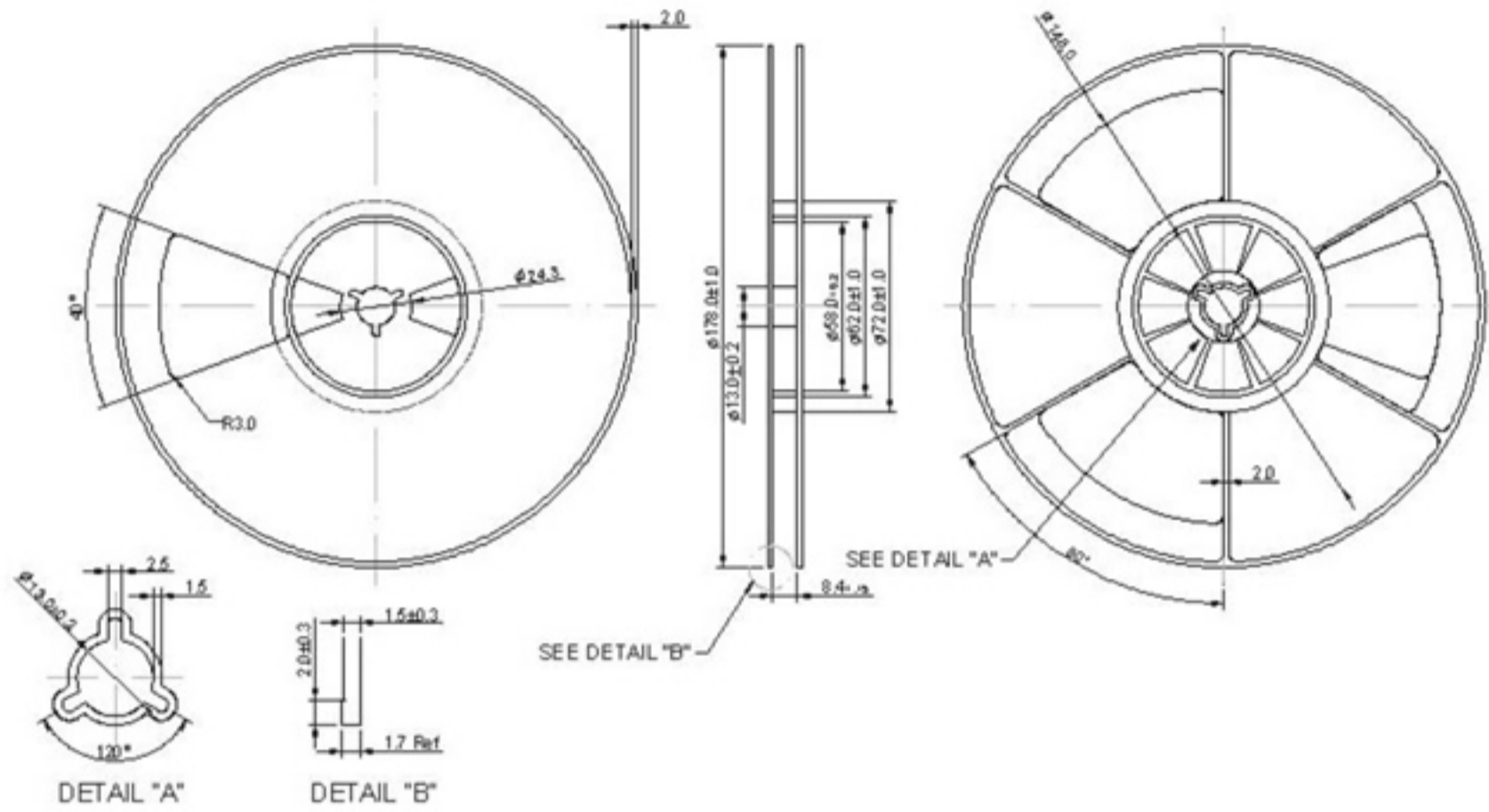




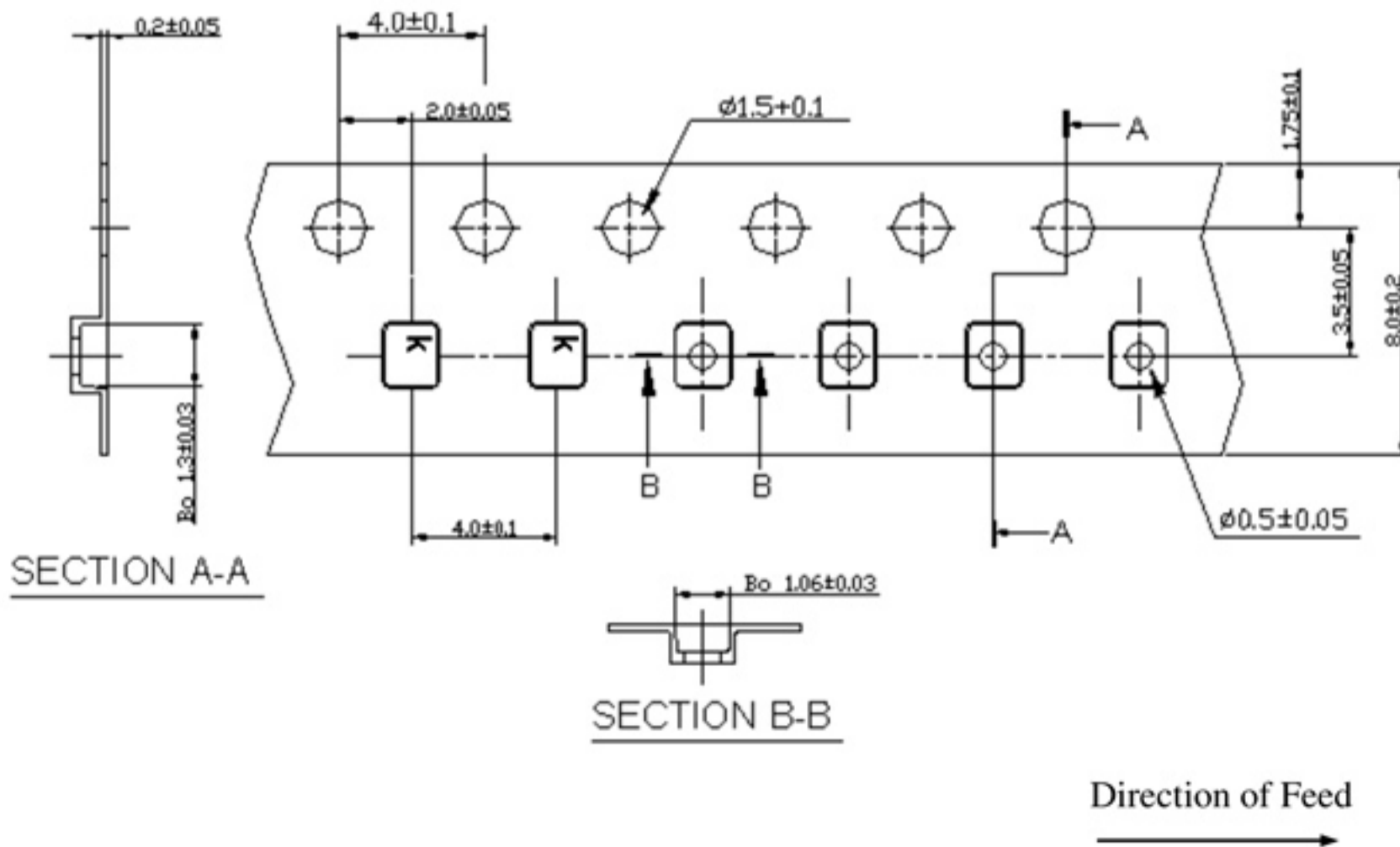
G. PACKING:

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

