

SAW Filter 1207.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2637A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm (5000h)
2. DC Voltage : 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +125 °C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 3

RoHS Compliant
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : $T_{spec} = -30\text{ °C to }+85\text{ °C}$

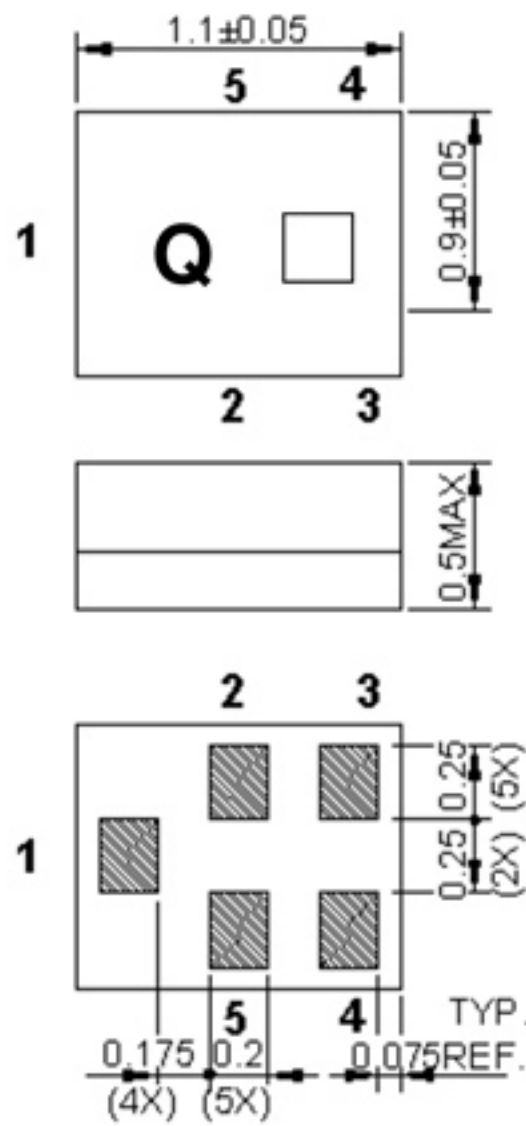
Terminating source impedance : $Z_s = 50\ \Omega$

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

Item	Unit	Min.	Typ.	Max.	
Center Frequency Fc	MHz	-	1207.5	-	
Insertion Loss (1166.22~1205.094 MHz)	IL dB	-	2.3	3	
Insertion Loss (1205.094~1226.577 MHz)	IL dB	-	1.9	3	
Insertion Loss (1226.577~1228.623 MHz)	IL dB	-	1.9	3	
Insertion Loss (1228.623~1249.136 MHz)	IL dB	-	2.5	3.5	
Amplitude Ripple (1166.22~1205.094 MHz)	dB _{p-p}	-	1	1.8	
Amplitude Ripple (1205.094~1226.577 MHz)	dB _{p-p}	-	0.5	1	
Amplitude Ripple (1226.577~1228.623 MHz)	dB _{p-p}	-	0.2	1	
Amplitude Ripple (1228.623~1249.136 MHz)	dB _{p-p}	-	0.6	1.5	
VSWR (1166.22~1249.136 MHz)		-	1.7	2.1	
Group Delay Ripple (1166.22~1205.094 MHz)	ns	-	12	30	
Group Delay Ripple (1205.094~1226.577 MHz)	ns	-	2	8	
Group Delay Ripple (1226.577~1228.623 MHz)	ns	-	1	10	
Group Delay Ripple (1228.623~1249.136 MHz)	ns	-	3	20	
Attenuation (refer to 0 dB)					
698 ~ 748 MHz	dB	35	41	-	
807 ~ 915 MHz	dB	28	32	-	

925 ~ 960	MHz	dB	27	31	-
1427 ~ 1463	MHz	dB	25	28	-
1626.5 ~ 1660.5	MHz	dB	28	34	-
1695 ~ 1785	MHz	dB	20	35	-
1850 ~ 2025	MHz	dB	20	33	-
2300 ~ 2690	MHz	dB	27	31	-
3400 ~ 3800	MHz	dB	20	28	-
4400 ~ 4900	MHz	dB	20	25	-
5150 ~ 5925	MHz	dB	20	25	-
Temperature Coefficient		ppm/K	-	-36	-

C.OUTLINE DRAWING:



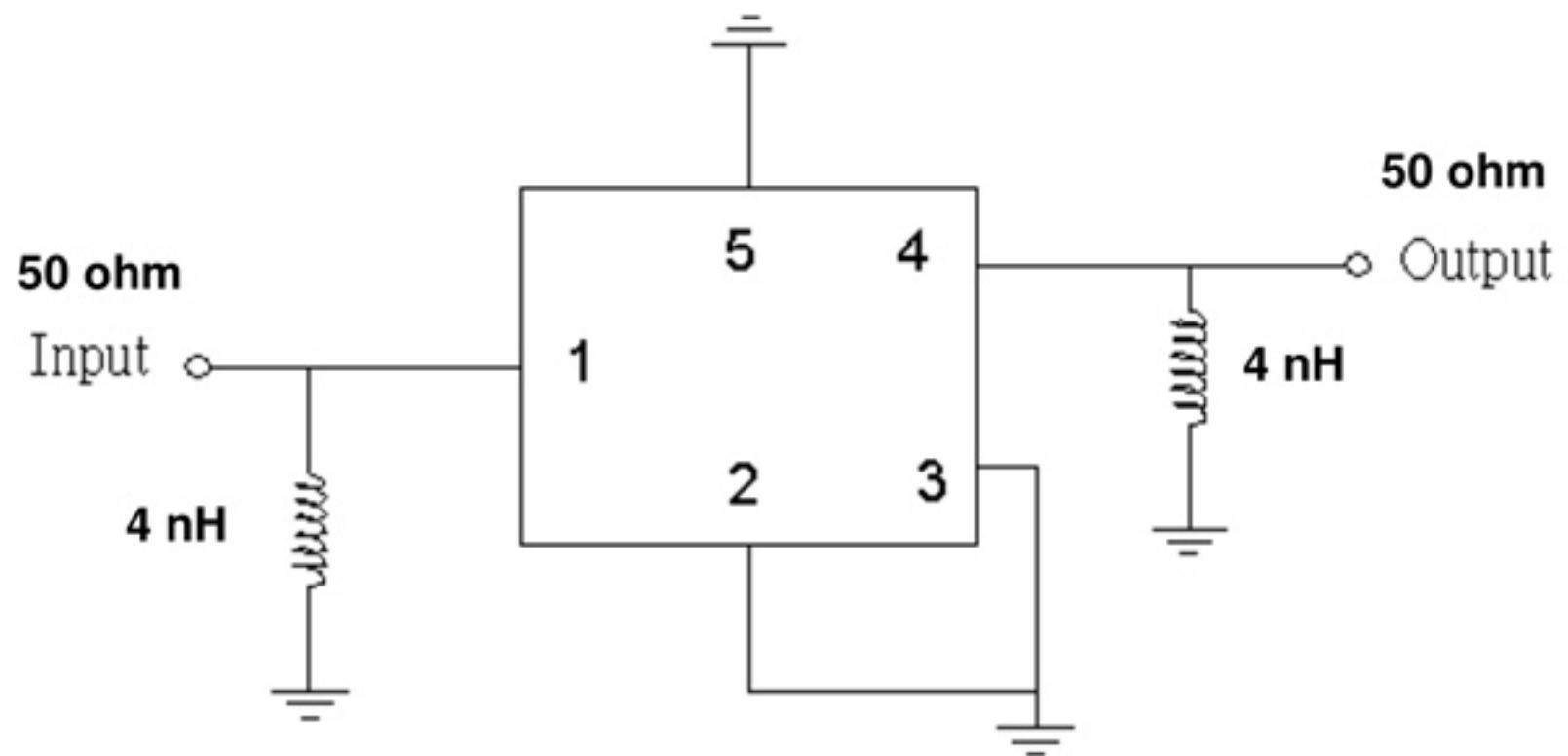
All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

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

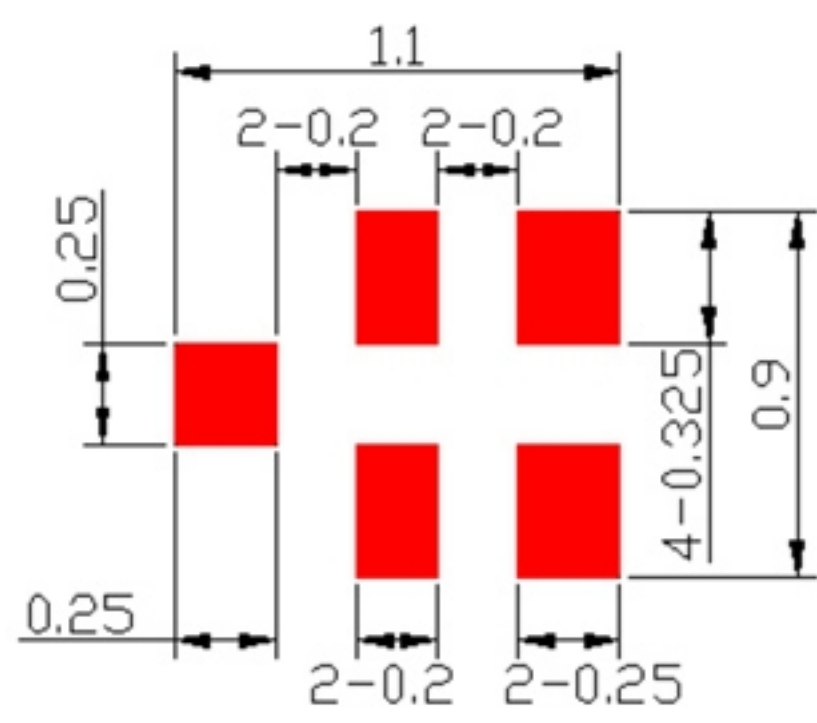
□ : Year/Month Code (Follow the table)

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>

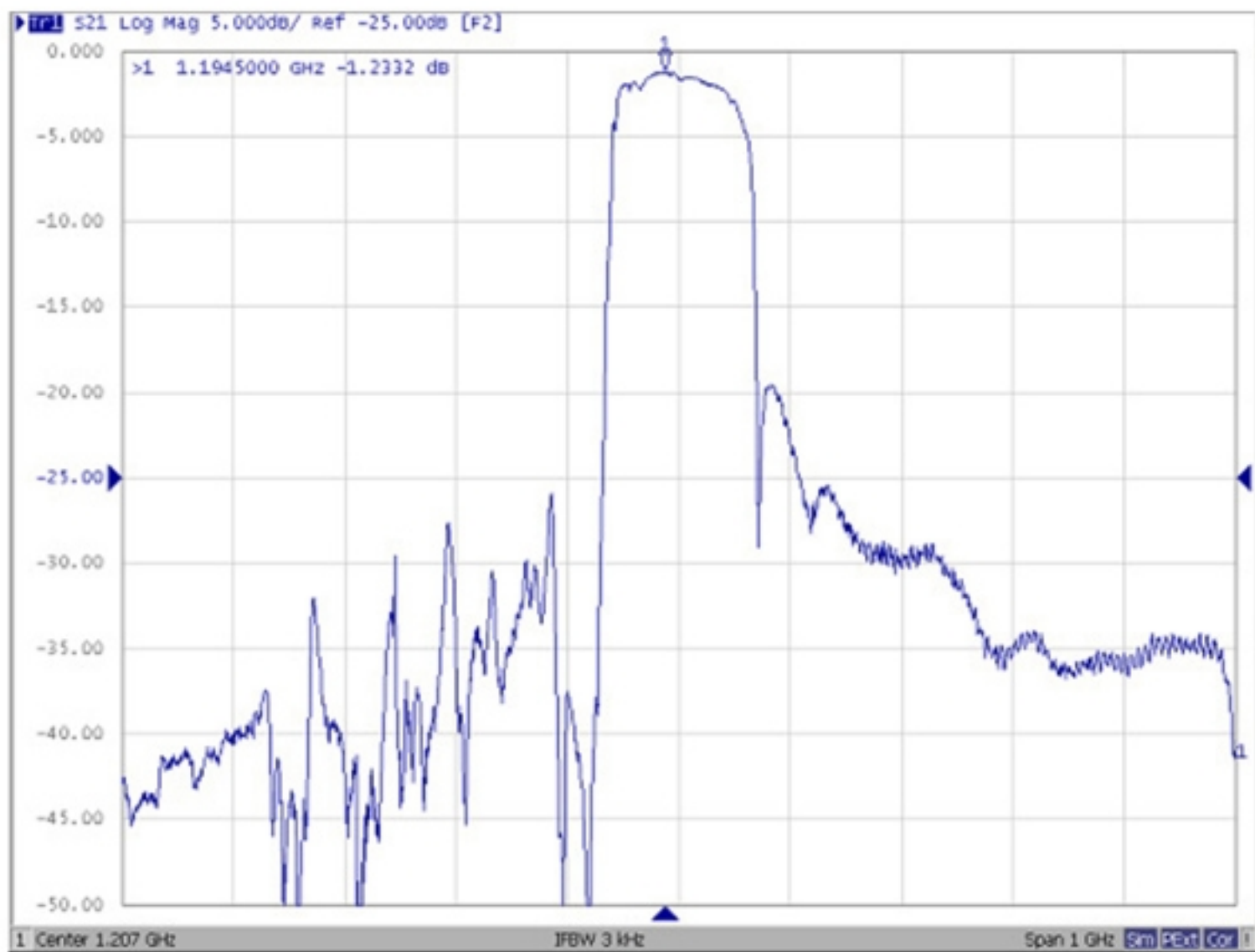
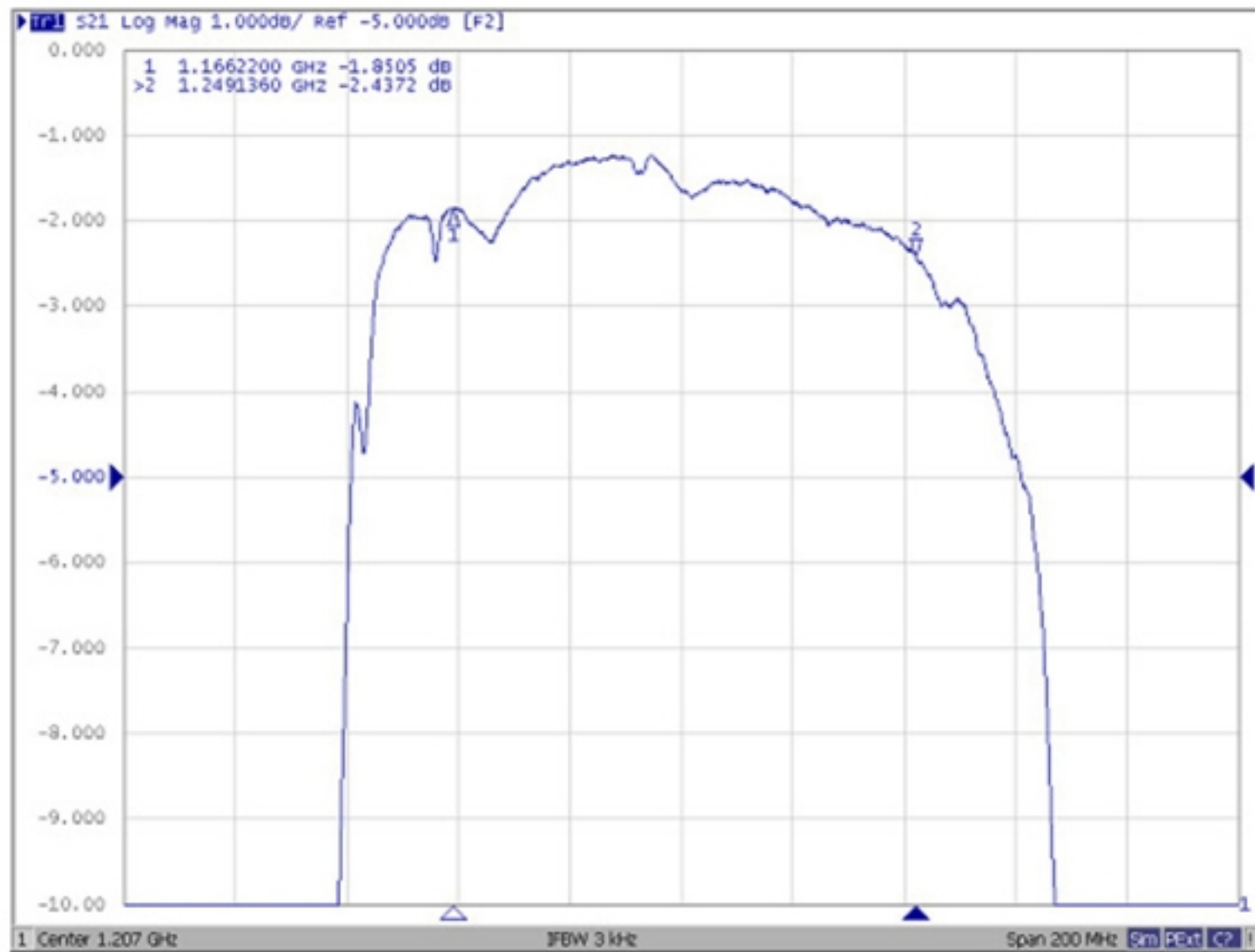
D. MEASUREMENT CIRCUIT:

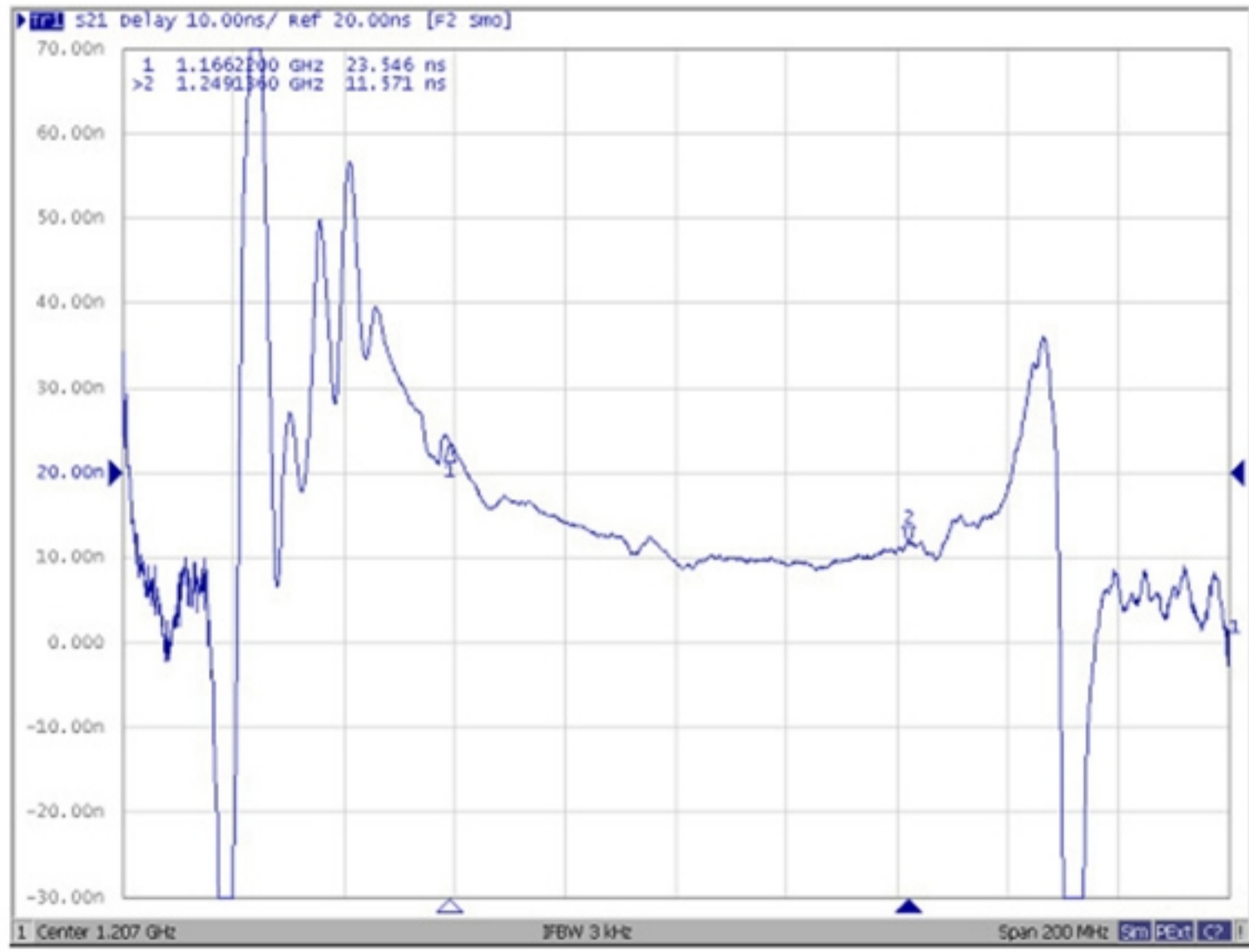
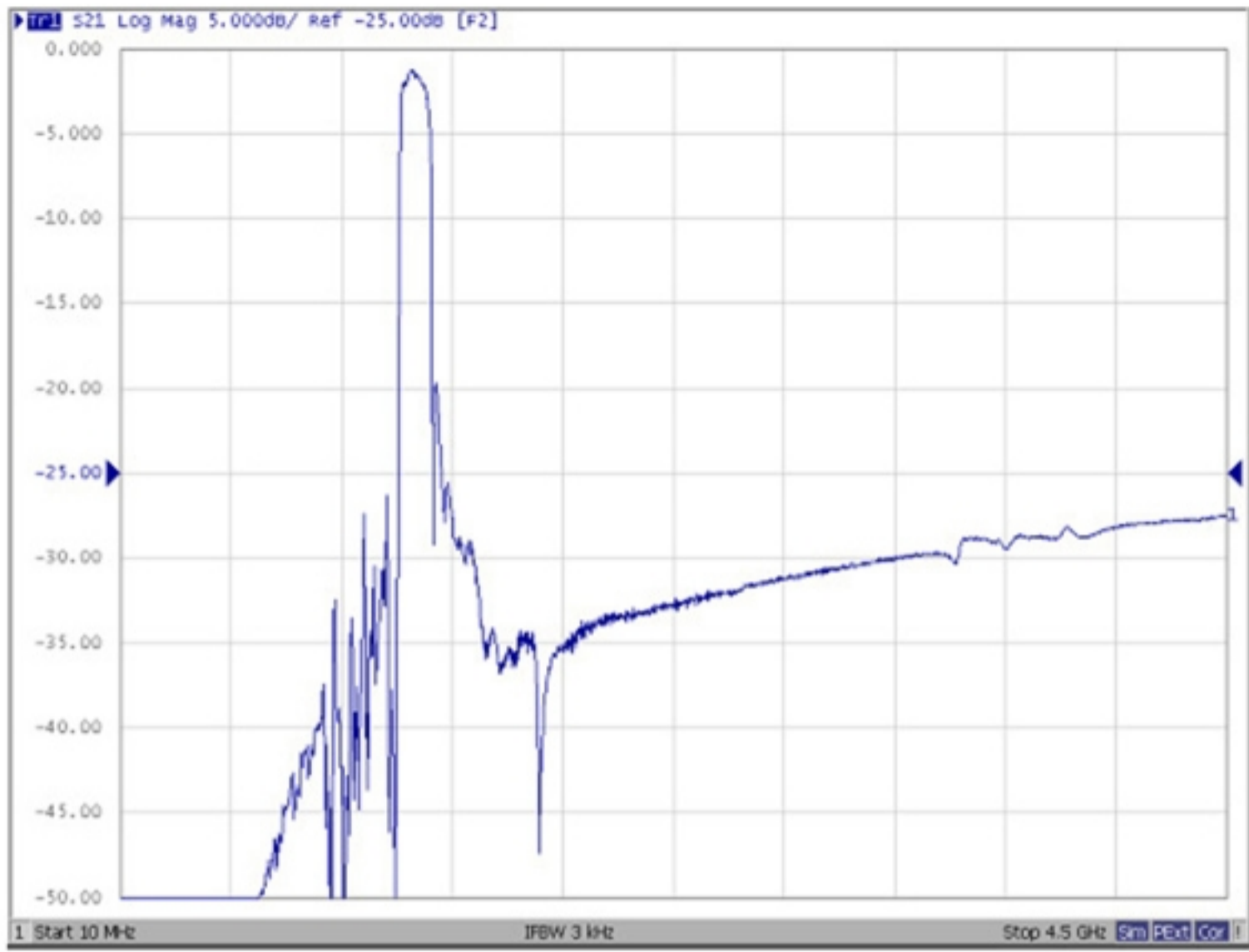


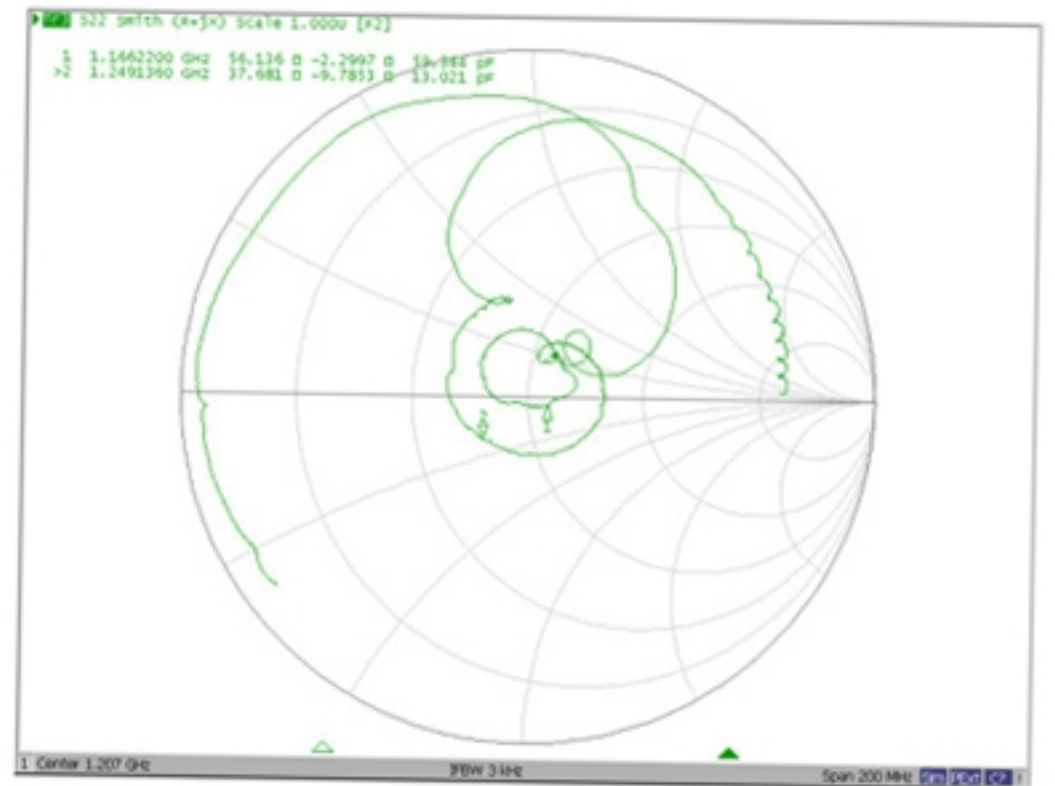
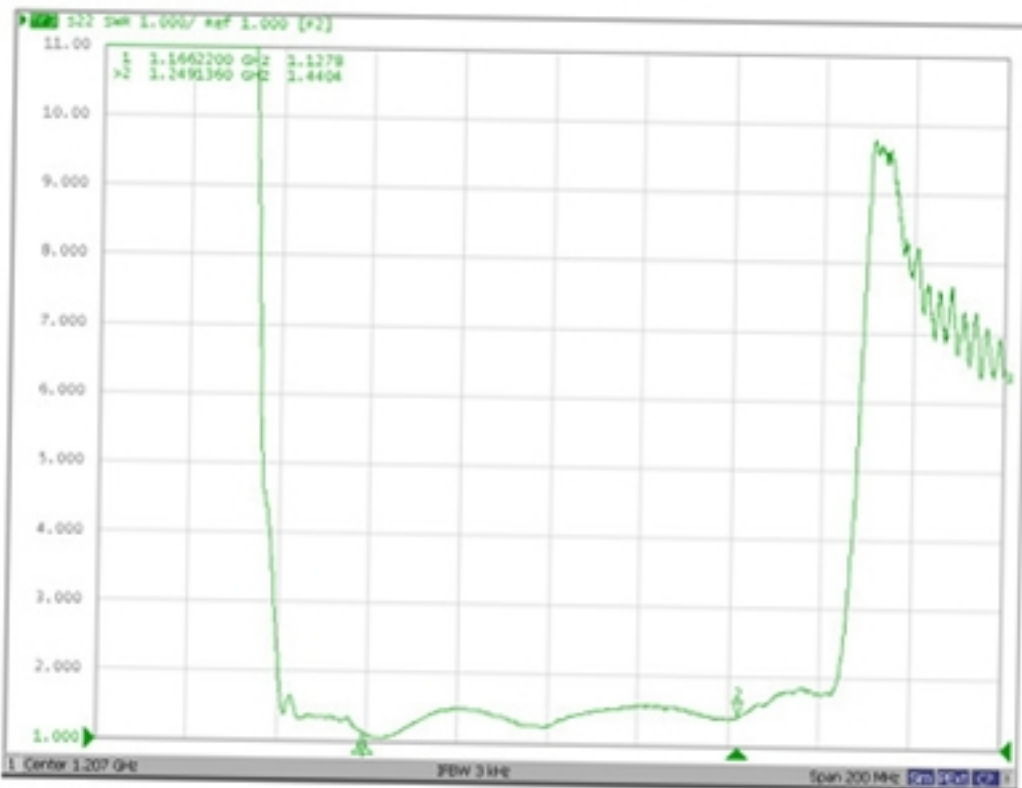
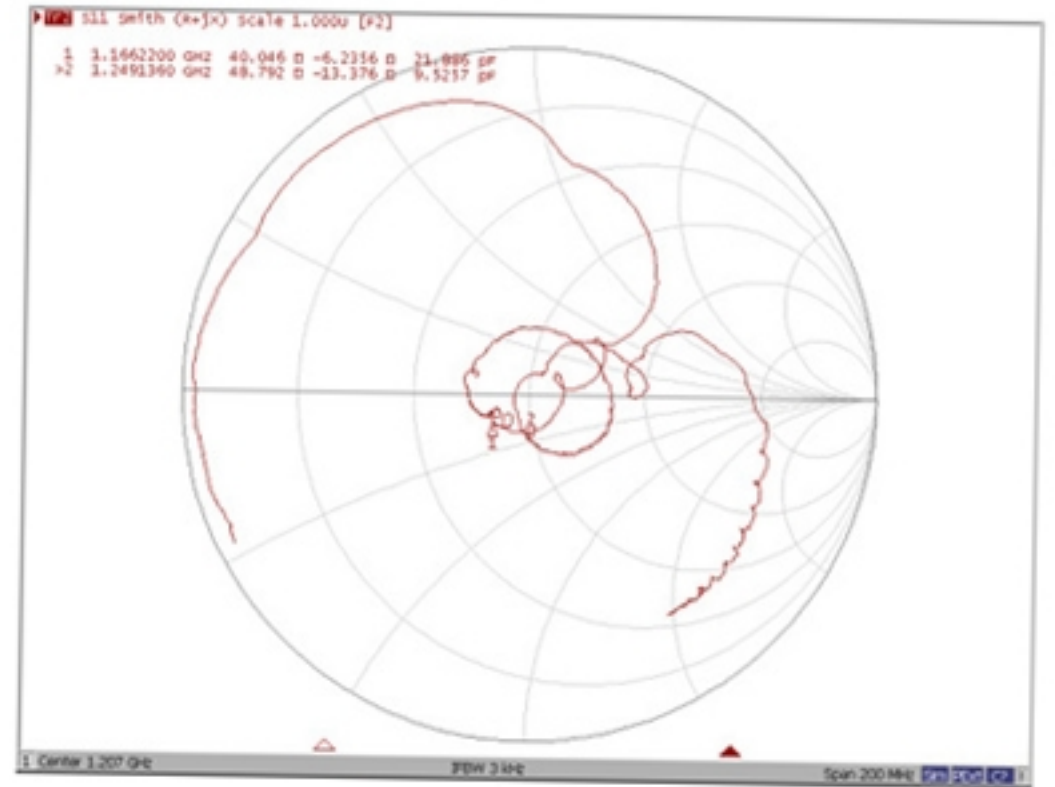
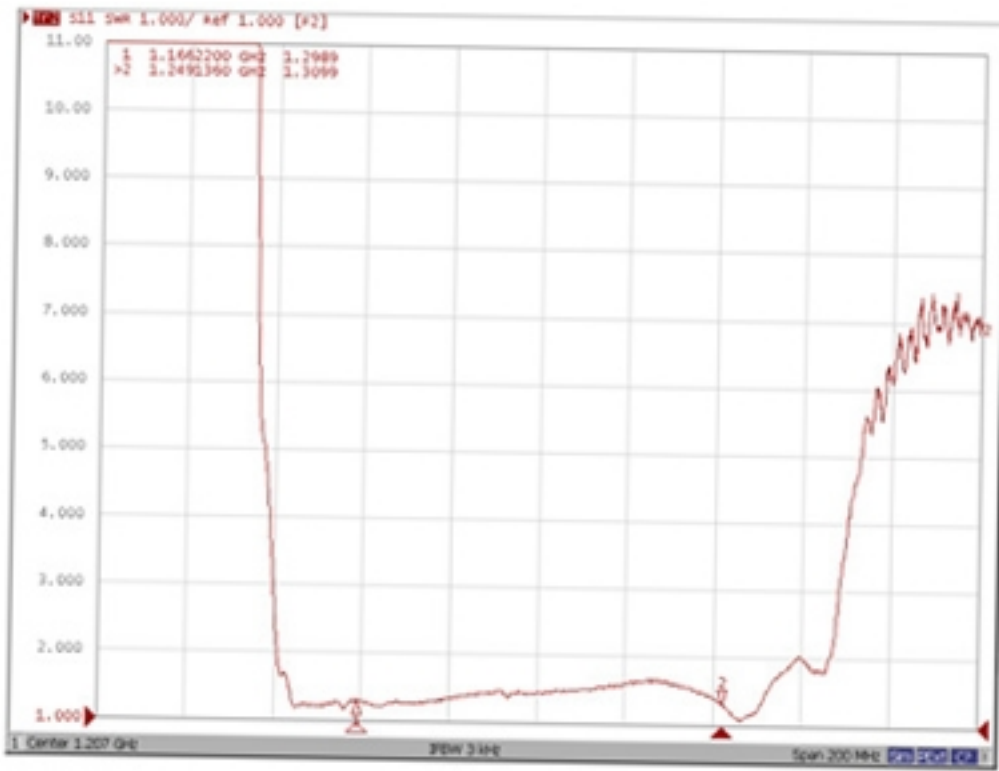
E. PCB Footprint :



F. Frequency Characteristics:



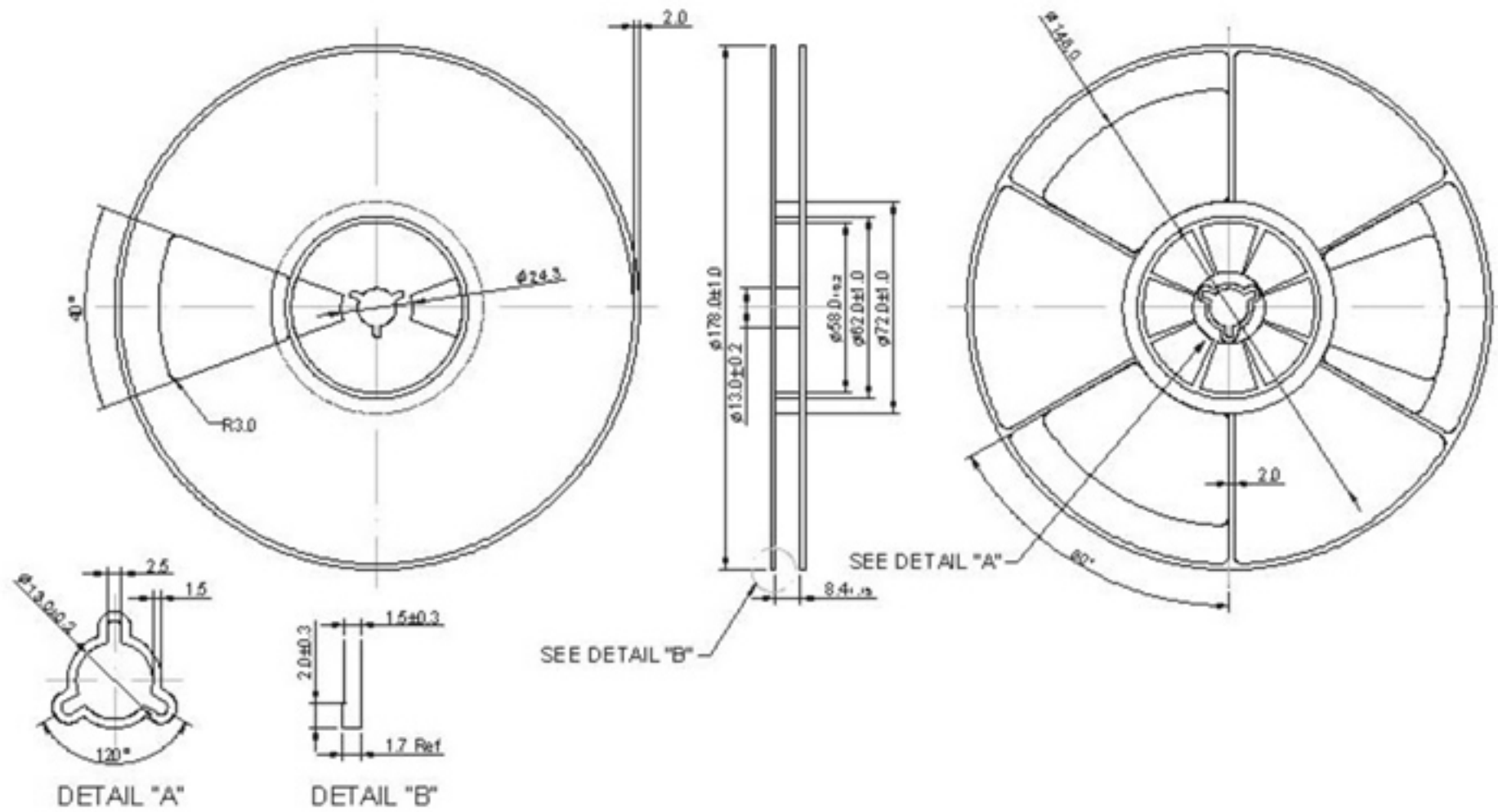




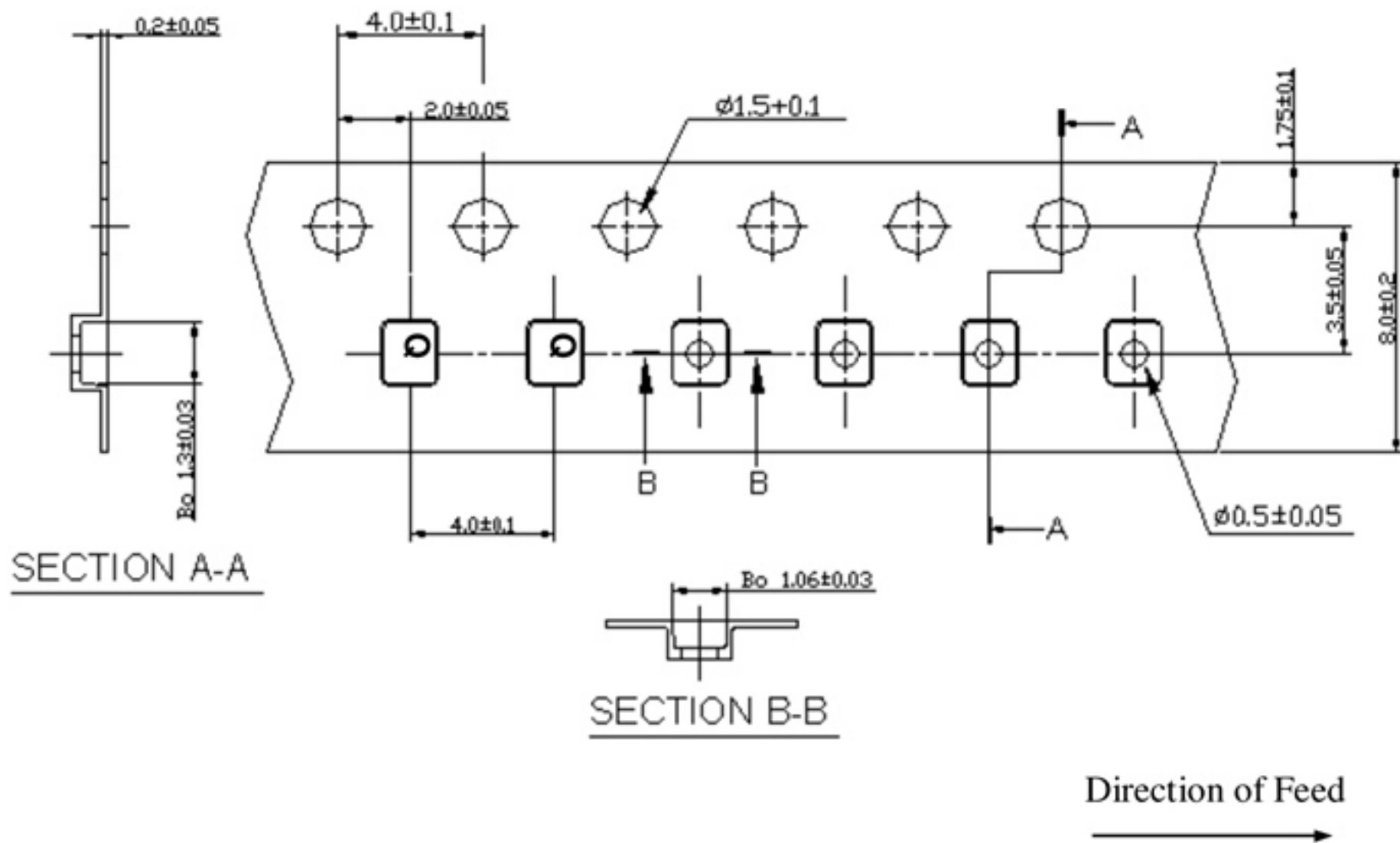
G. PACKING:

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.

