

SAW Filter 1582.47 MHz

MODEL NO.:TA2411A

REV. NO.:3.0

A. MAXIMUM RATING:

1. Maximum Input Power: 15 dBm
2. Maximum DC Voltage: +/-5 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -55 °C to +125 °C
5. Moisture Sensitivity Level: Level 3 (MSL 3)
6. ESD: 50V(MM), 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

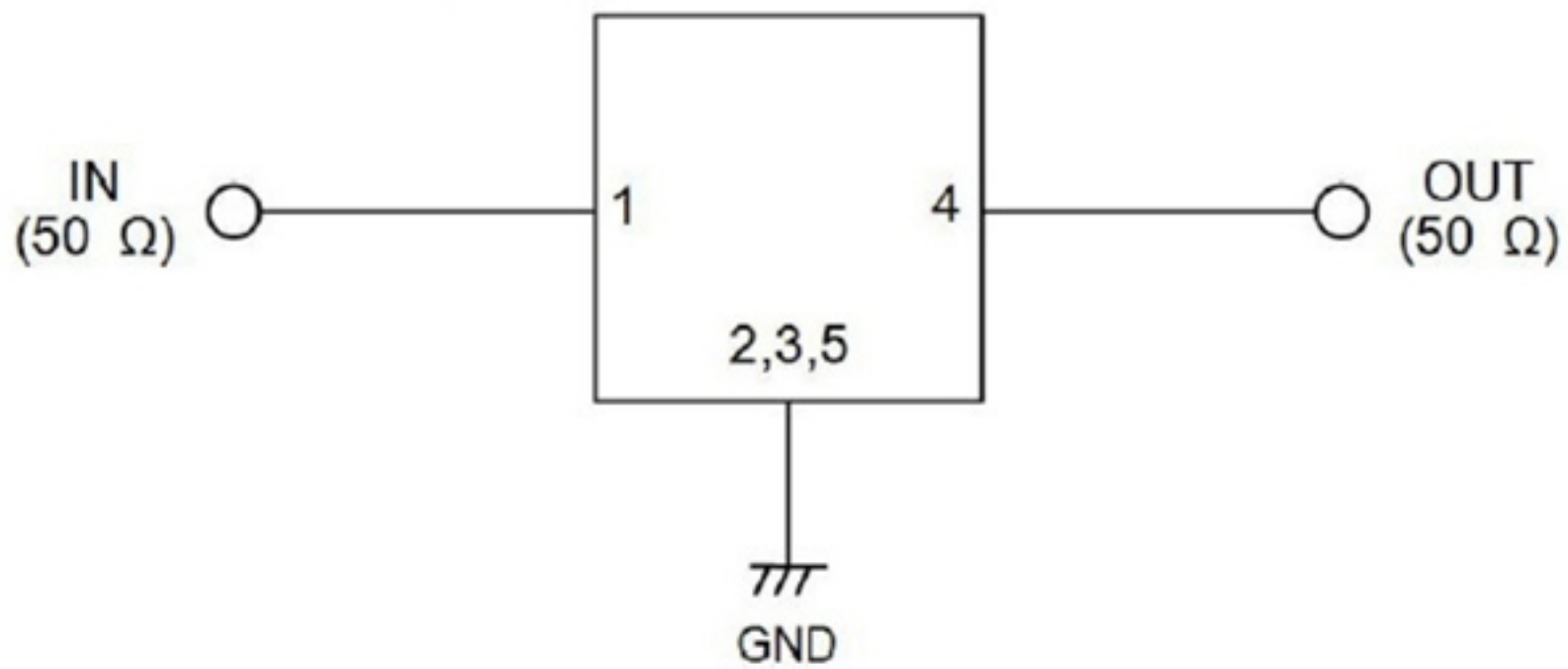
Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency Fc		MHz	-	1582.47	-
Insertion Loss	1574.42 ~ 1576.42 MHz	dB		1.2	1.7
	1597.55 ~ 1605.89 MHz	dB		1.8	2.5
	1559.05 ~ 1563.14 MHz	dB		1.7	2.5
Amplitude Ripple	1574.42 ~ 1576.42 MHz	dB _{p-p}		0.1	0.8
	1597.55 ~ 1605.89 MHz	dB _{p-p}		0.55	1.4
	1559.05 ~ 1563.14 MHz	dB _{p-p}		0.2	1.2
Group Delay Ripple	1574.42 ~ 1576.42 MHz	nsec		1.0	6.0
	1597.55 ~ 1605.89 MHz	nsec		4.0	12.5
	1559.05 ~ 1563.14 MHz	nsec		5.0	16.0
VSWR(Input/Output)	1574.42 ~ 1576.42 MHz	-		1.5	2.1
	1597.55 ~ 1605.89 MHz	-		1.4	2.0
	1559.05 ~ 1563.14 MHz	-		1.5	2.0

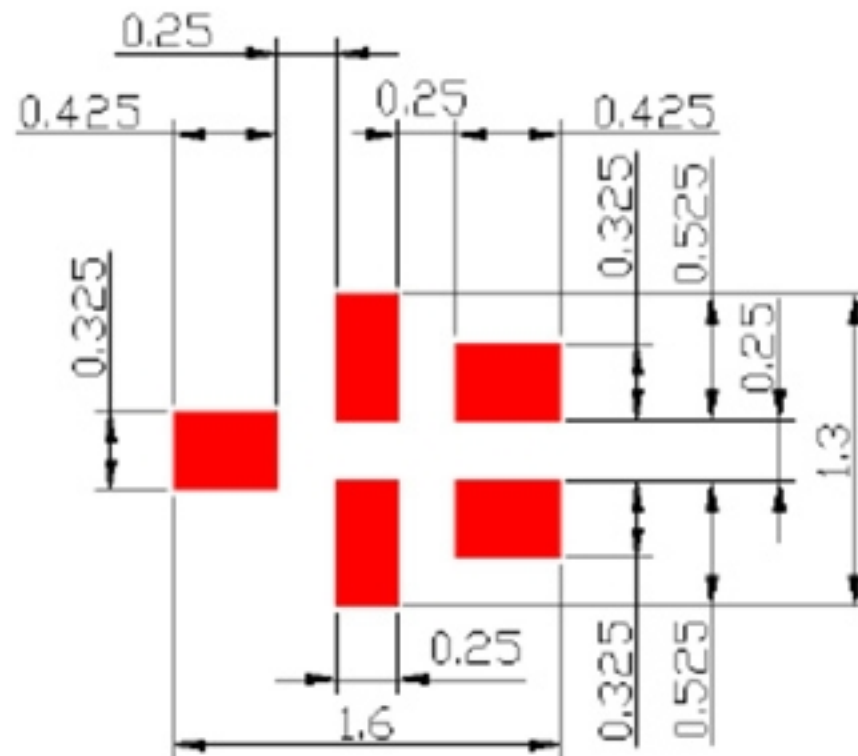
Attenuation (Reference level from 0 dB)				
699~716 MHz	dB	43	47	-
777~787 MHz	dB	45	46.5	-
814~849 MHz	dB	45	46.5	-
880~915 MHz	dB	45	46.5	-
1427.9~1446.9 MHz	dB	45	53	-
1447.9~1462.9 MHz	dB	45	54	-
1710~1785 MHz	dB	47	54	-
1850~1915 MHz	dB	47	54	-
1920~1980 MHz	dB	47	54	-
2400~2500 MHz	dB	45	50	-
2500~2570 MHz	dB	45	50	-

Notes: (1) No Matching Network.

C. MEASUREMENT CIRCUIT:

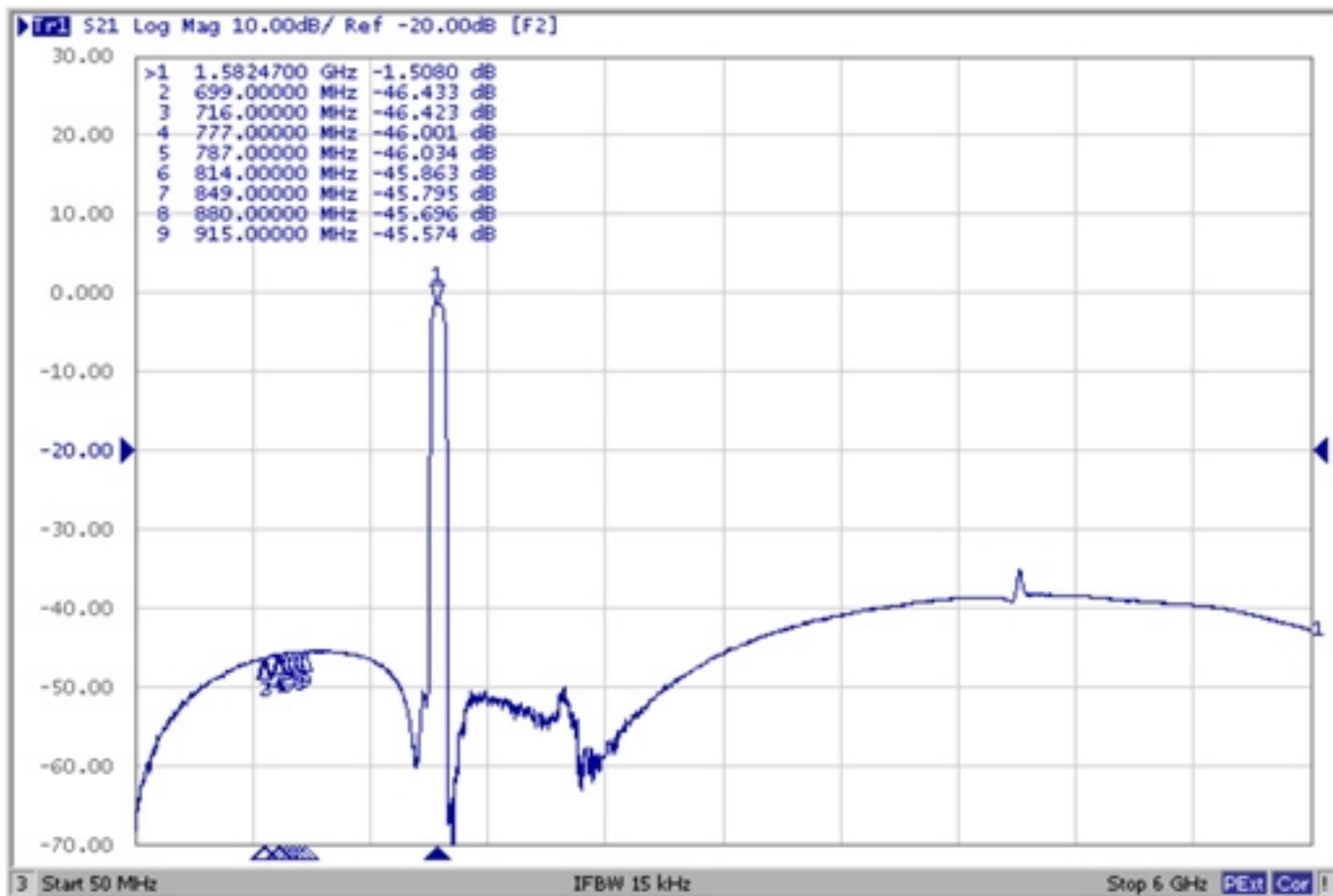
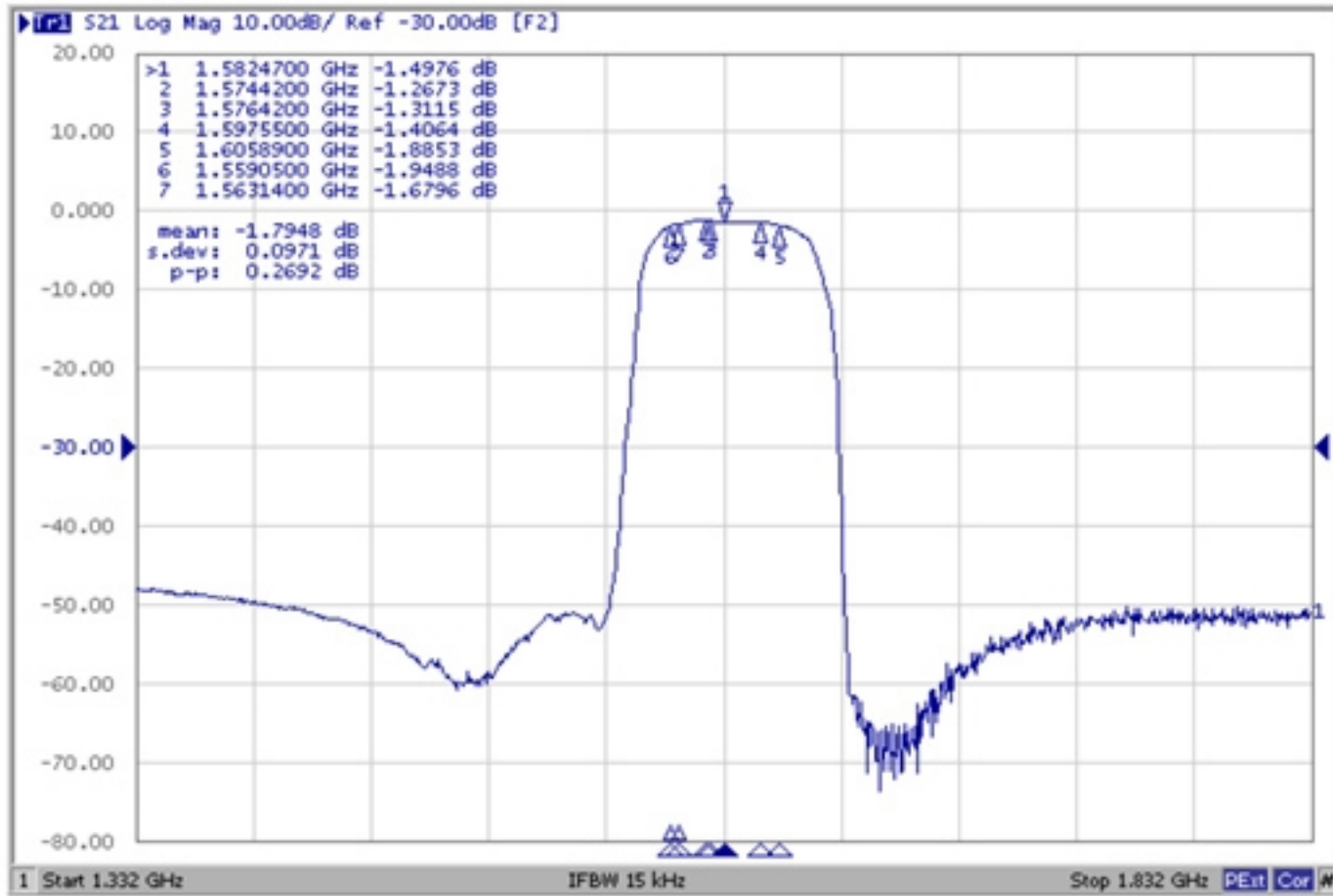
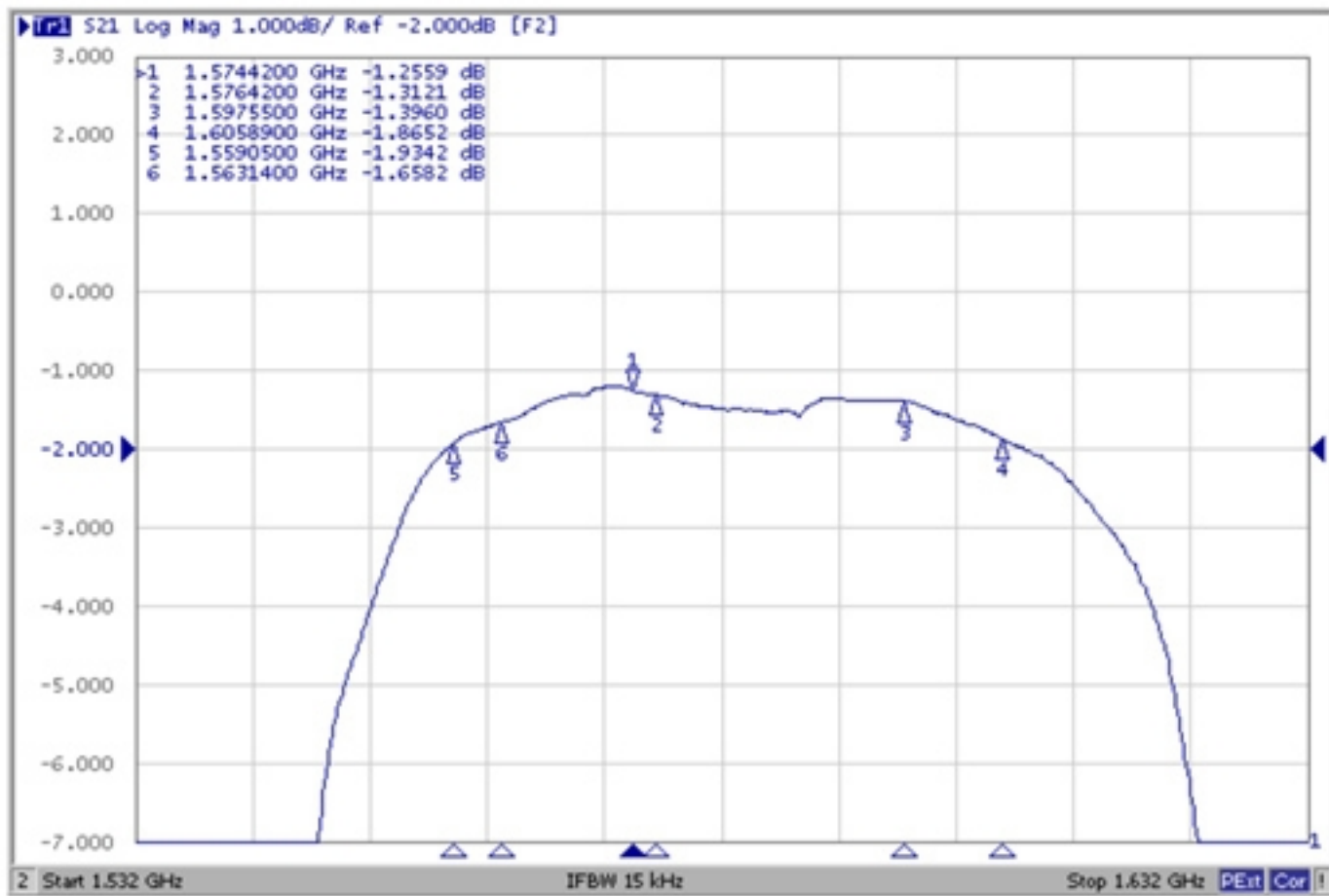


D. PCB Footprint:

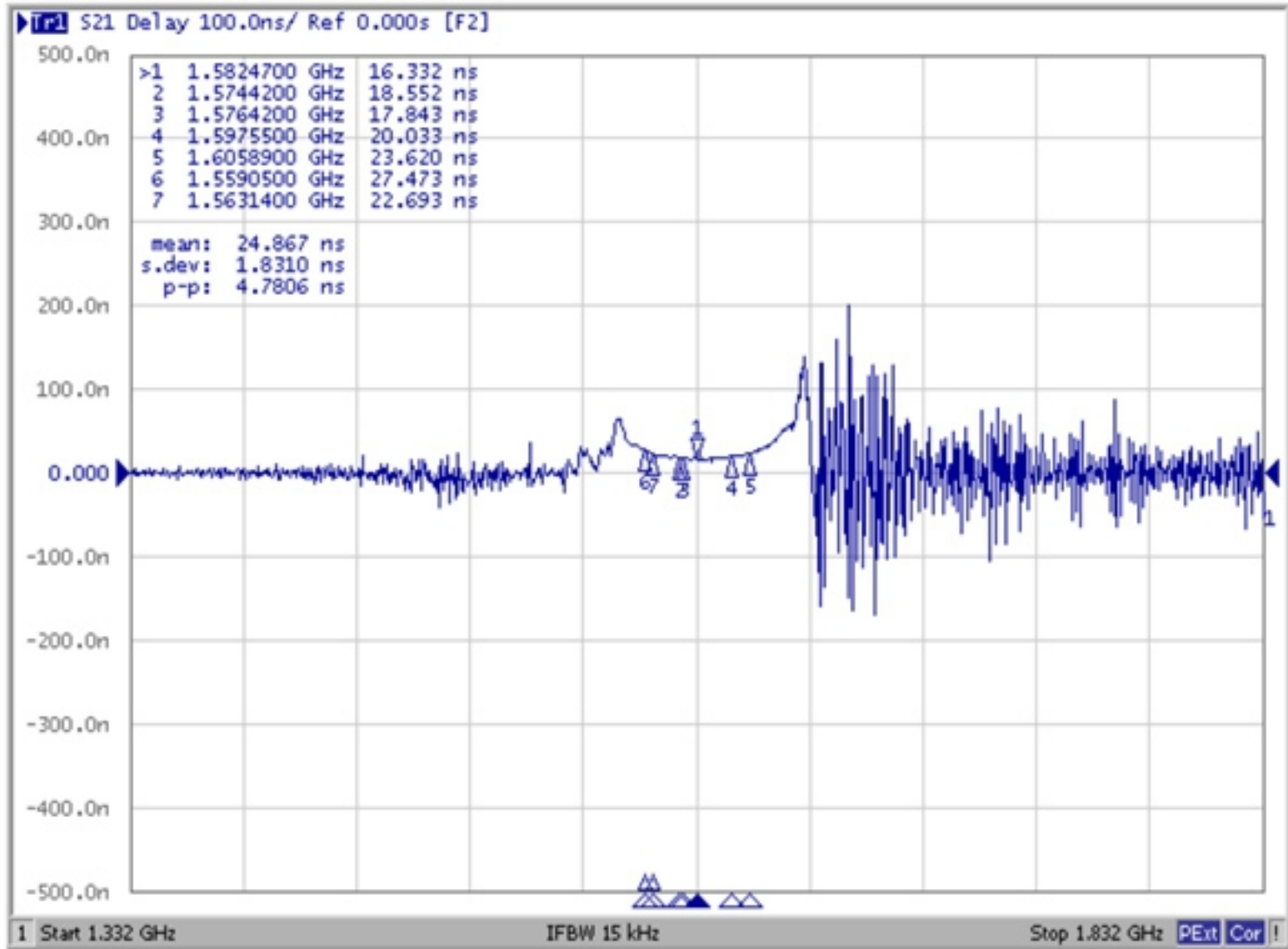


■ : Land Pattern
Unit : mm

E. FREQUENCY CHARACTERISTIC:

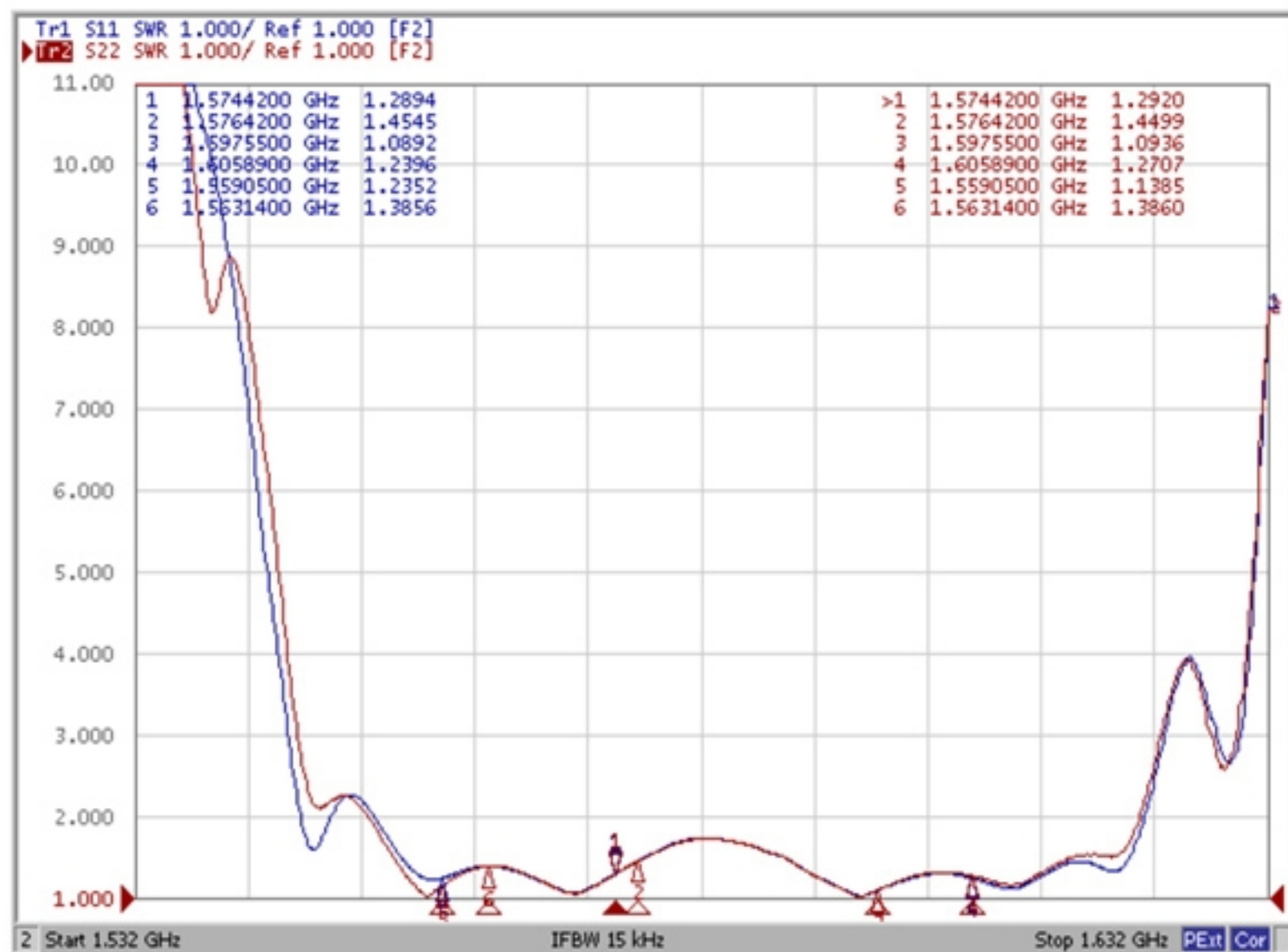


Group Delay Ripple

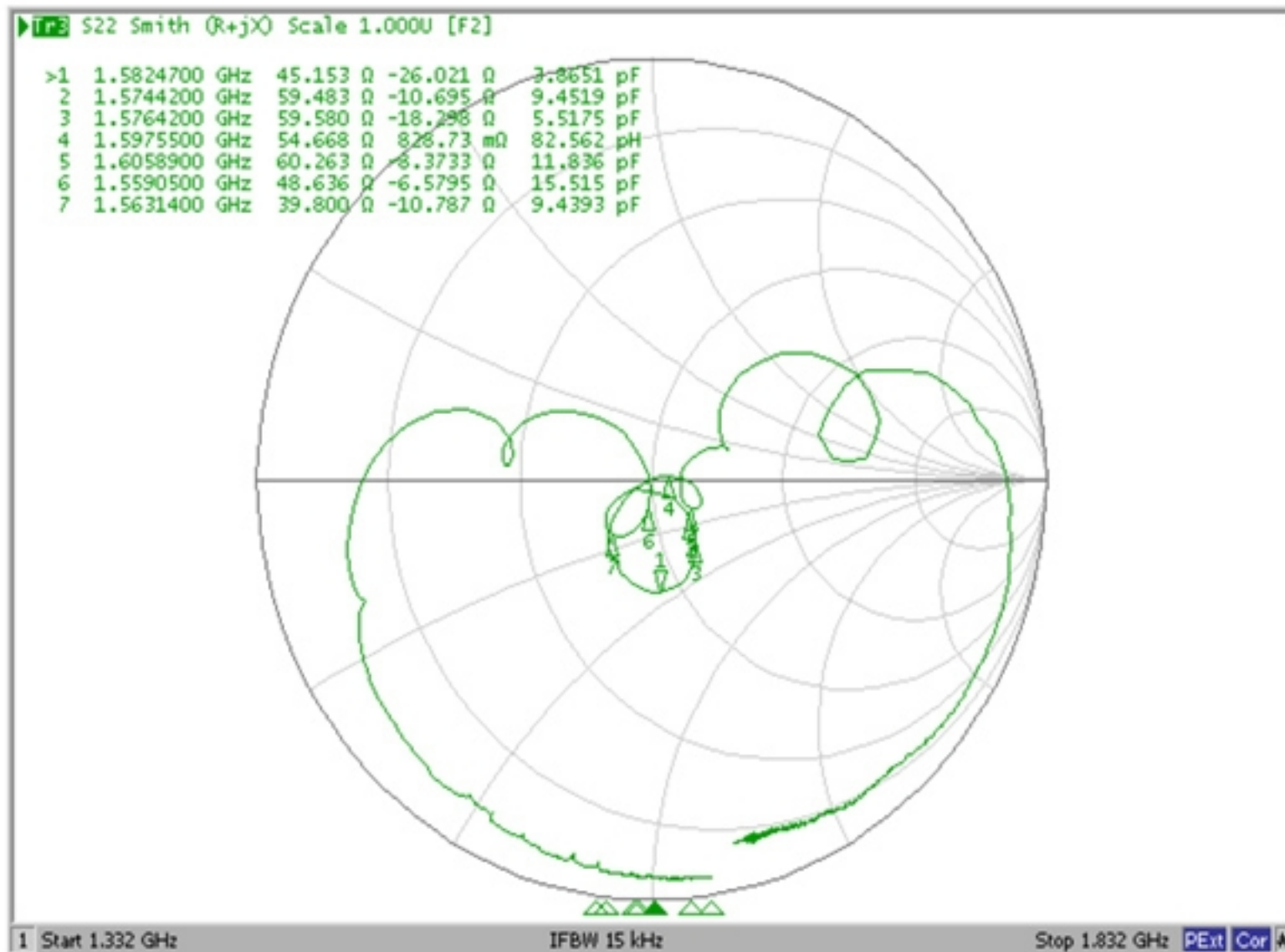
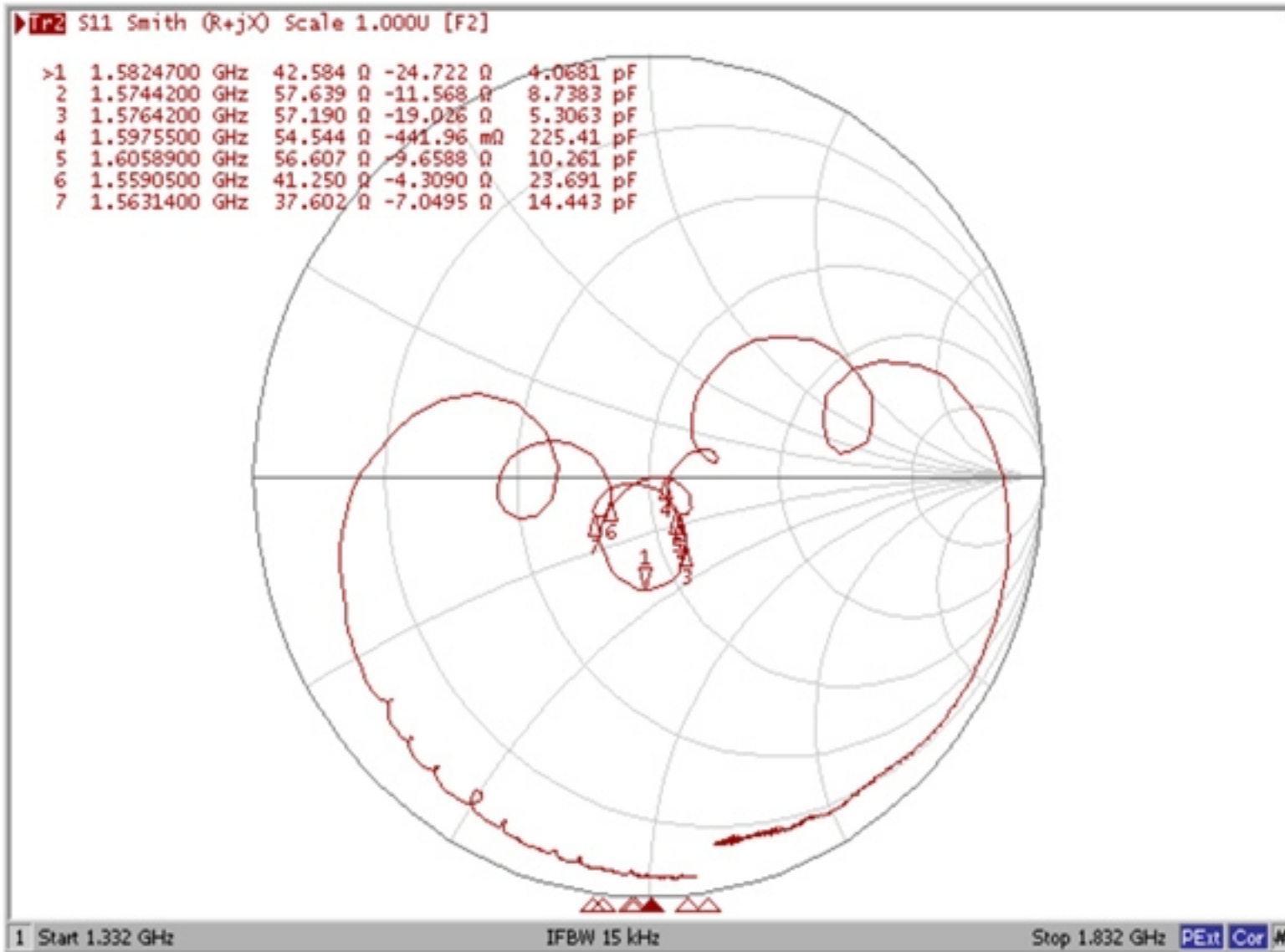


Reflection Functions:

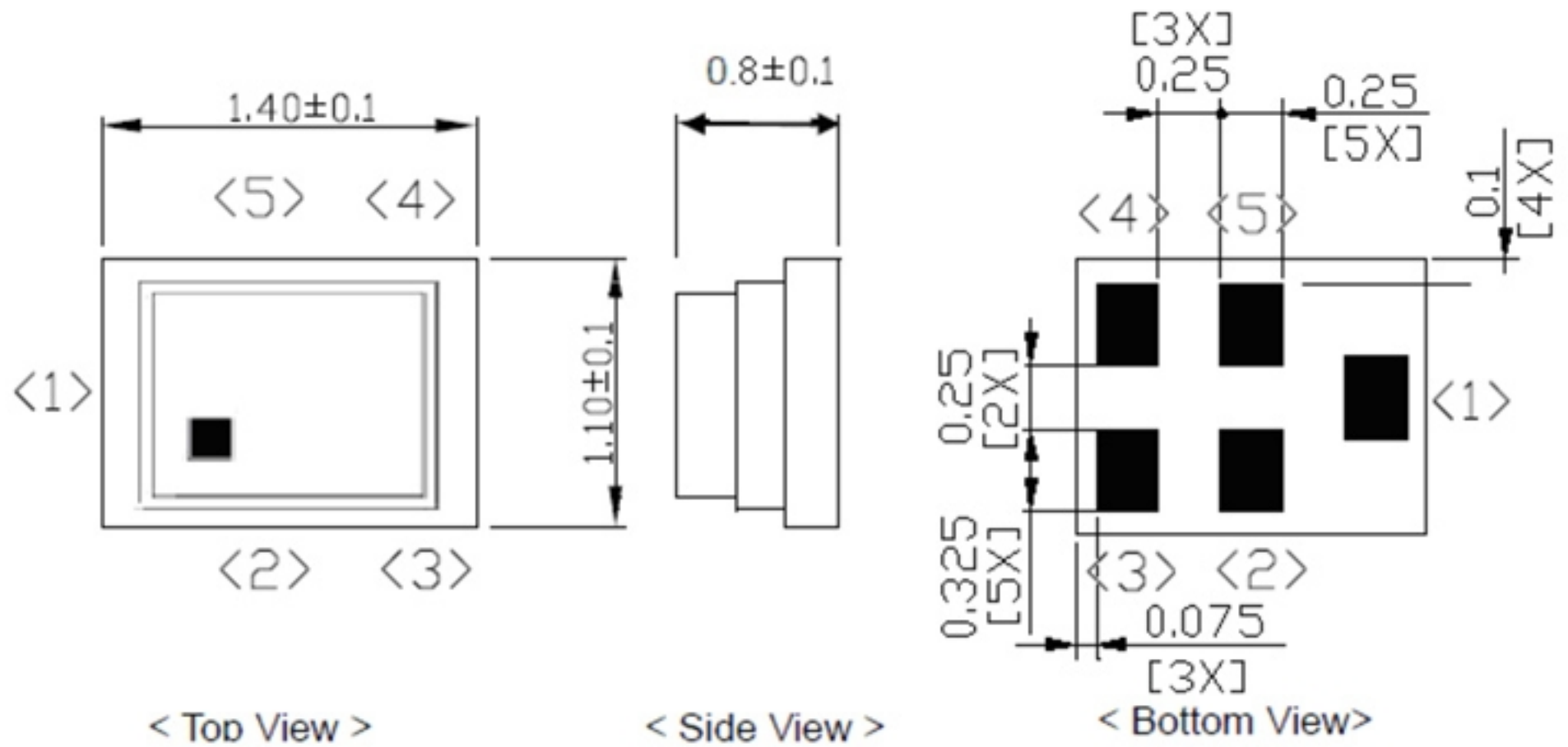
VSWR



Smith Chart



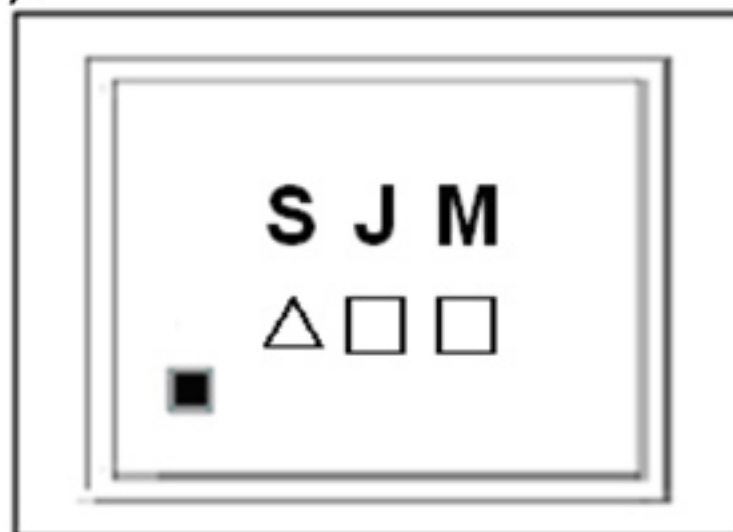
F. OUTLINE DRAWING:



Pin Configuration

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

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)

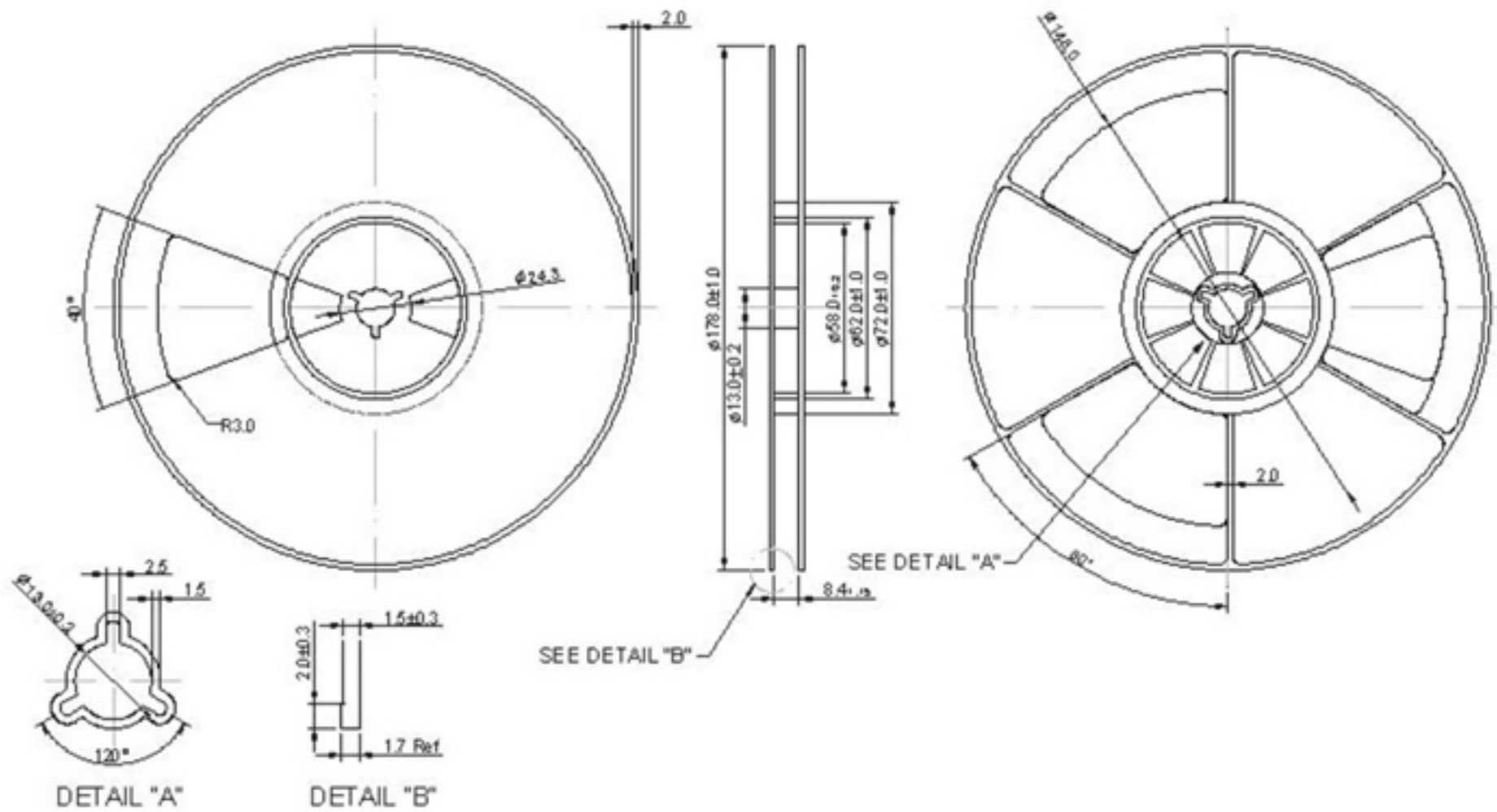
Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	Đ	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	∇	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	J	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

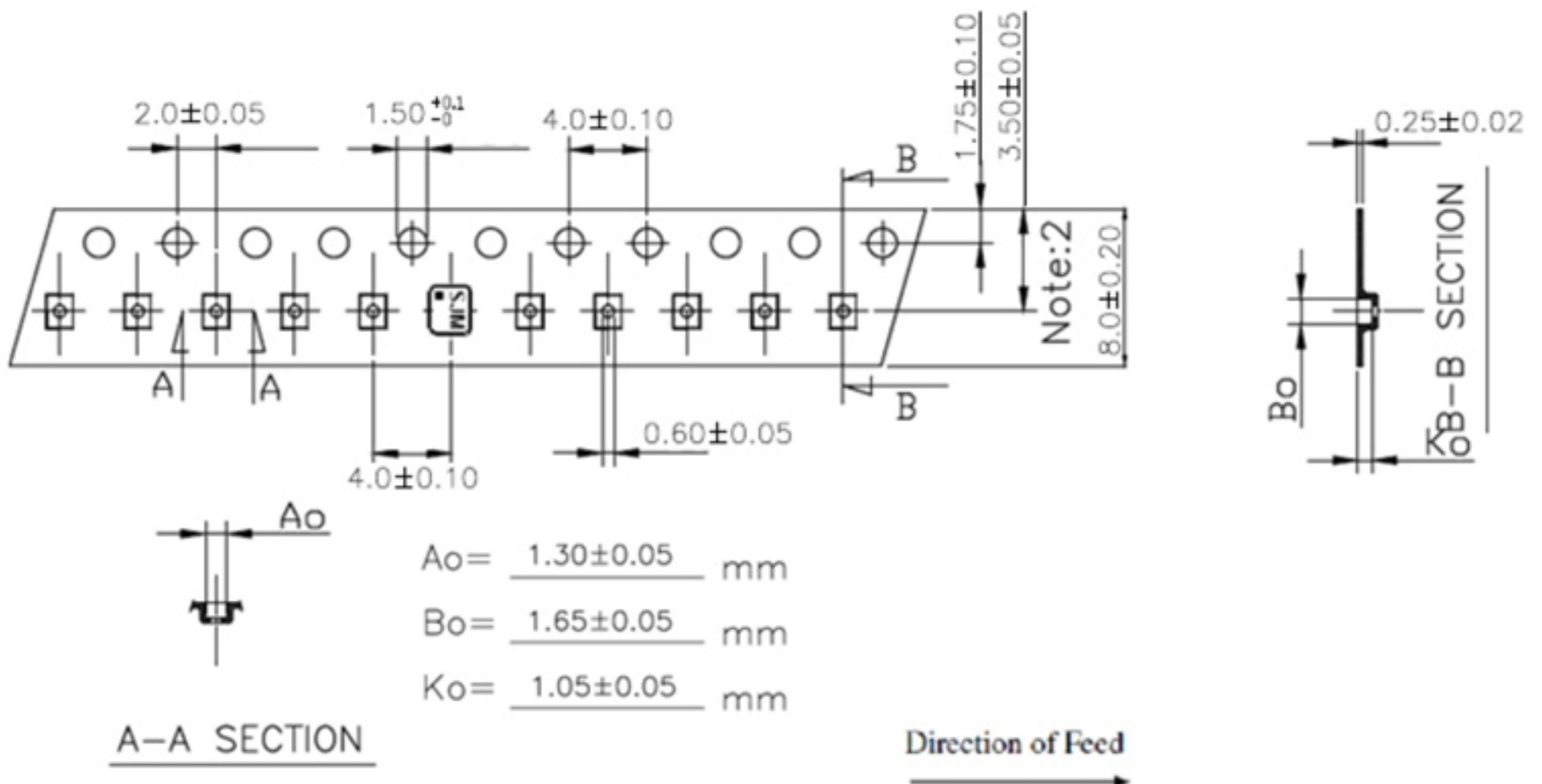
G. PACKING: (Ref: WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:

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.

