

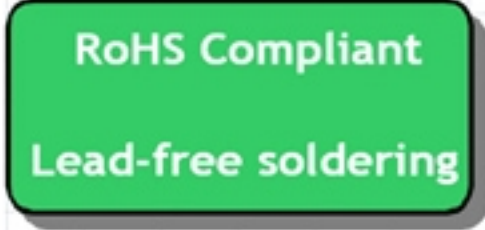
SAW Tx Filter 733 MHz Band 28 SMD 1.4X1.1 mm (30MHz BW)

MODEL NO.:TA2413A

REV.2

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating temperature range: -30 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)



Electrostatic Sensitive Device (ESD)

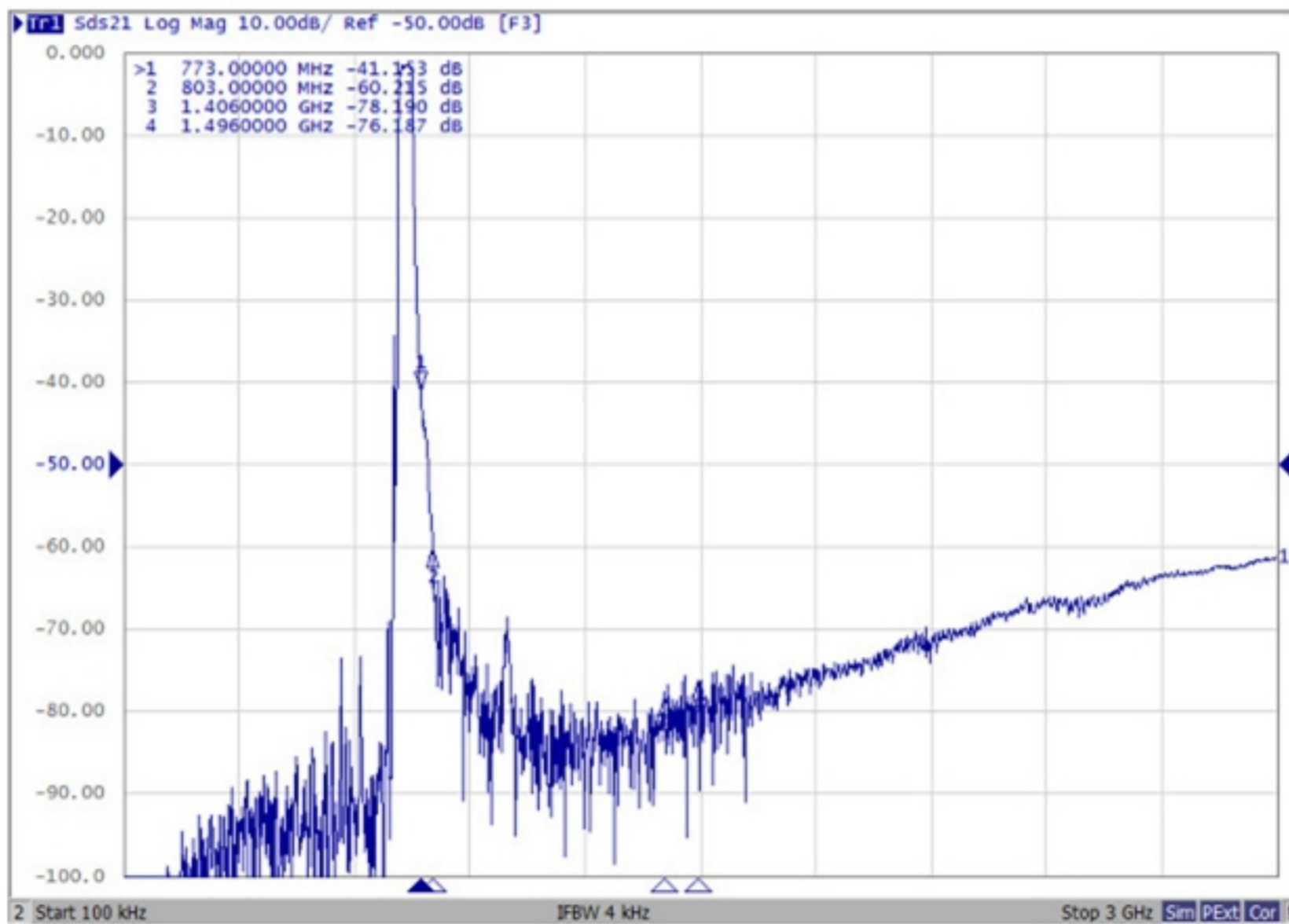
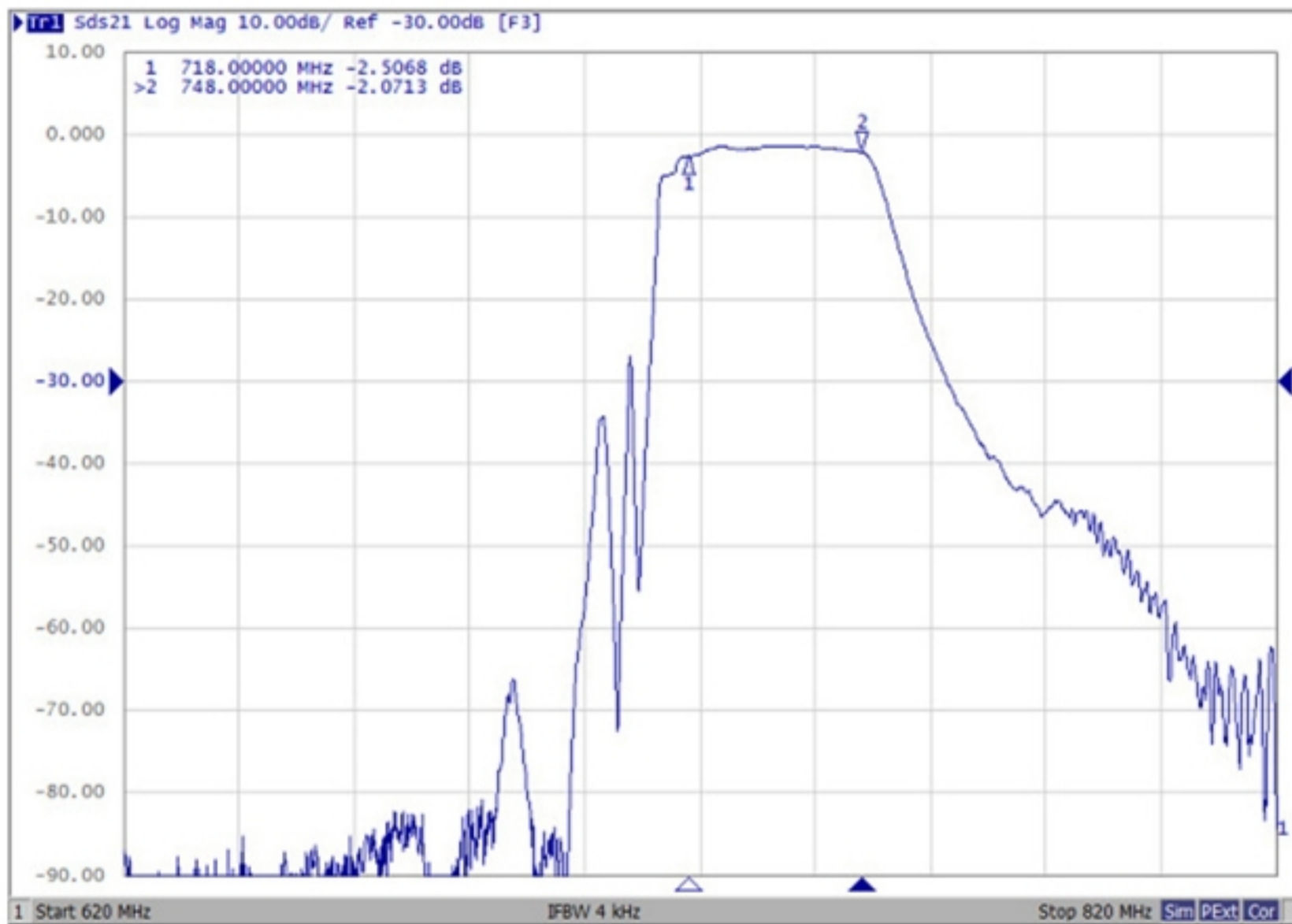
B. ELECTRICAL CHARACTERISTICS:

- Source impedance (unbalanced) : $Z_s = 50 \Omega$
Load Impedance (balanced) : $Z_L = 100 \Omega$

Parameters Description	Unit	Min	Typ	Max
Center frequency F_c	MHz	-	733	-
Insertion Loss 718.0 ~ 748.0 MHz	dB	-	2.6	4.0
Amplitude ripple 718.0 ~ 748.0 MHz	dB	-	1.2	2.6
V.S.W.R 718.0 ~ 748.0 MHz			2.5	2.9
Attenuation:				
733.0 ~ 803.0 MHz	dB	35	43	-
1406.0 ~ 1496.0 MHz	dB	45	55	-

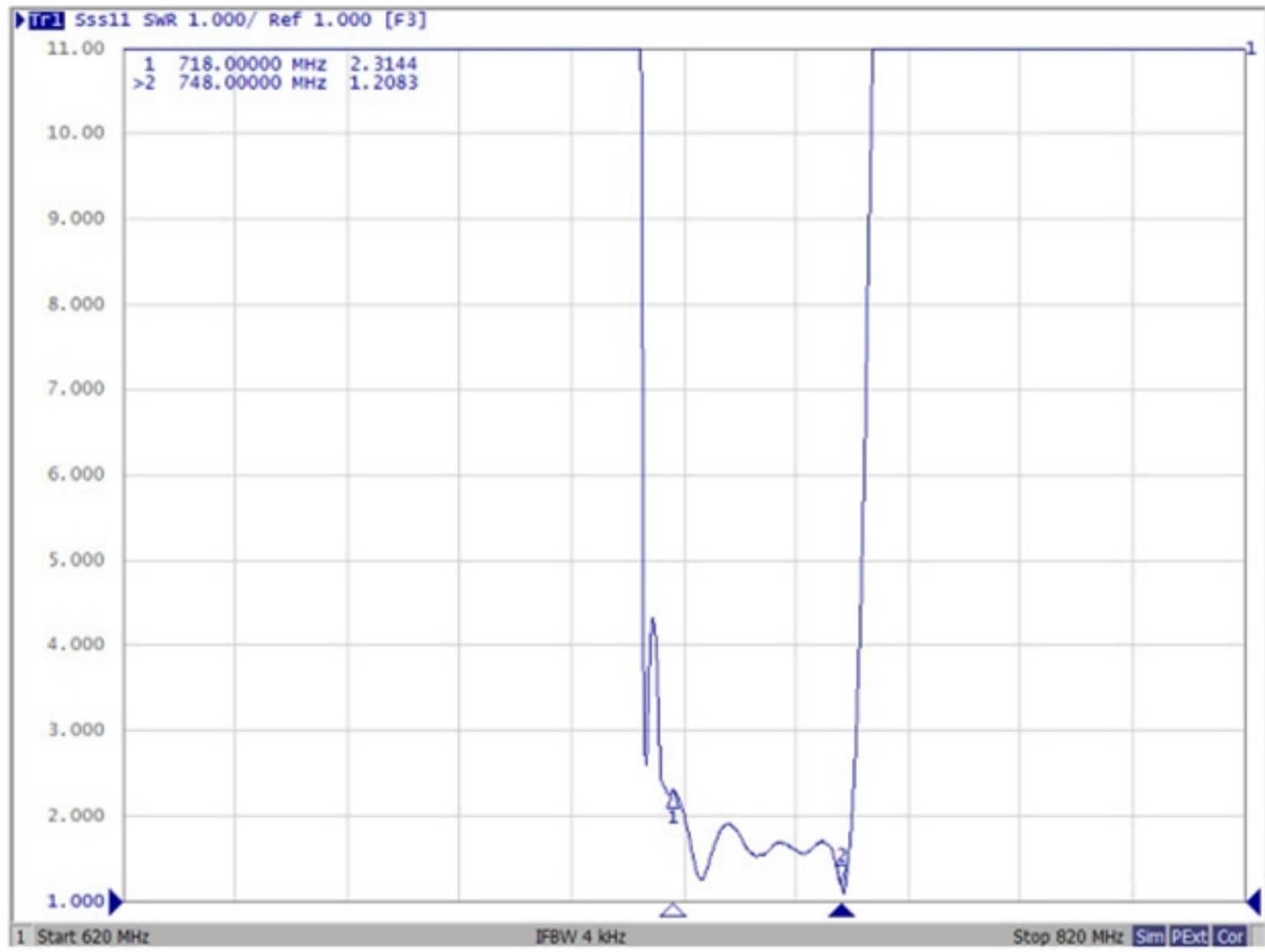
C. FREQUENCY CHARACTERISTICS:

1. Frequency Response

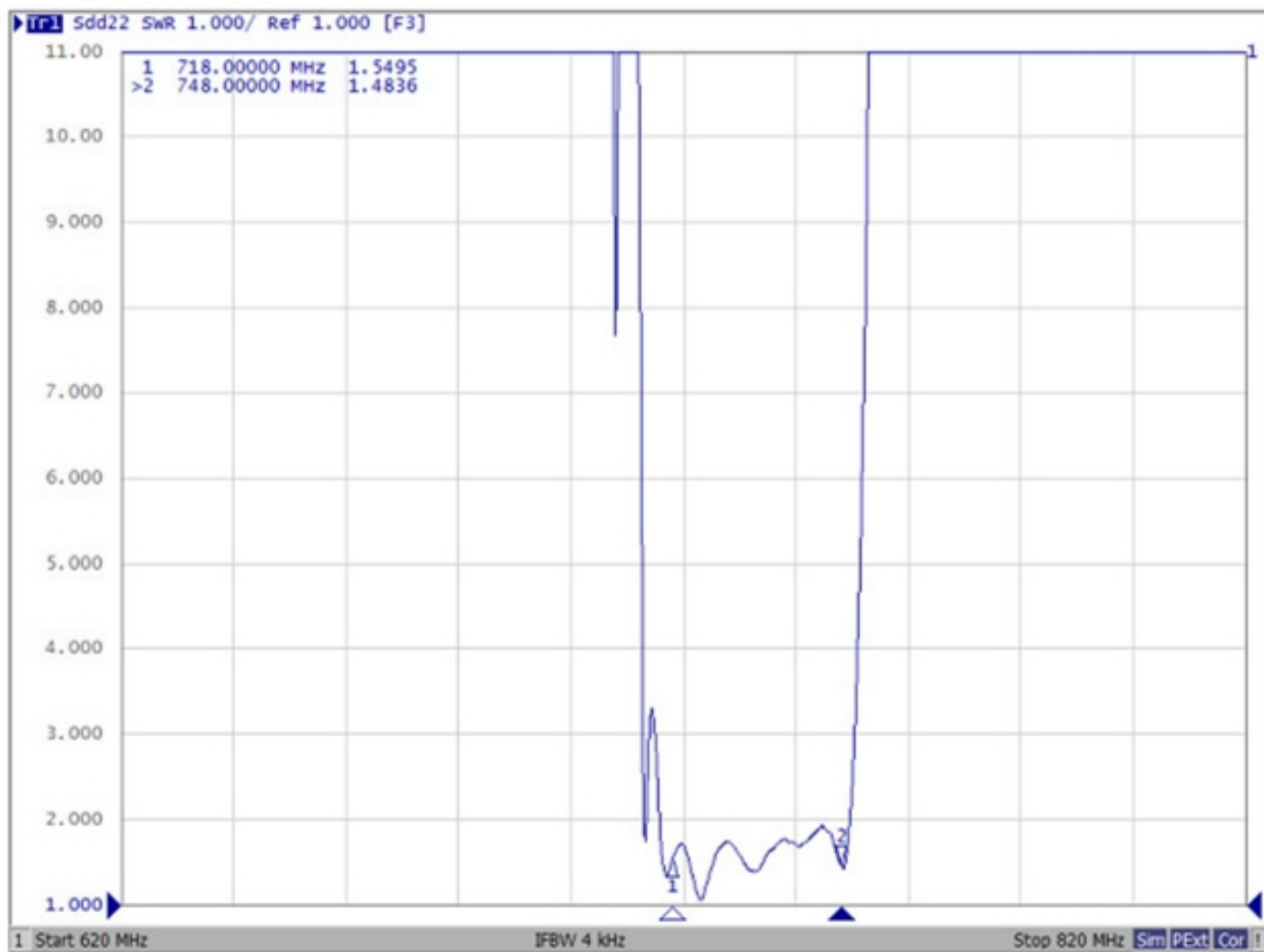


2. VSWR

S11

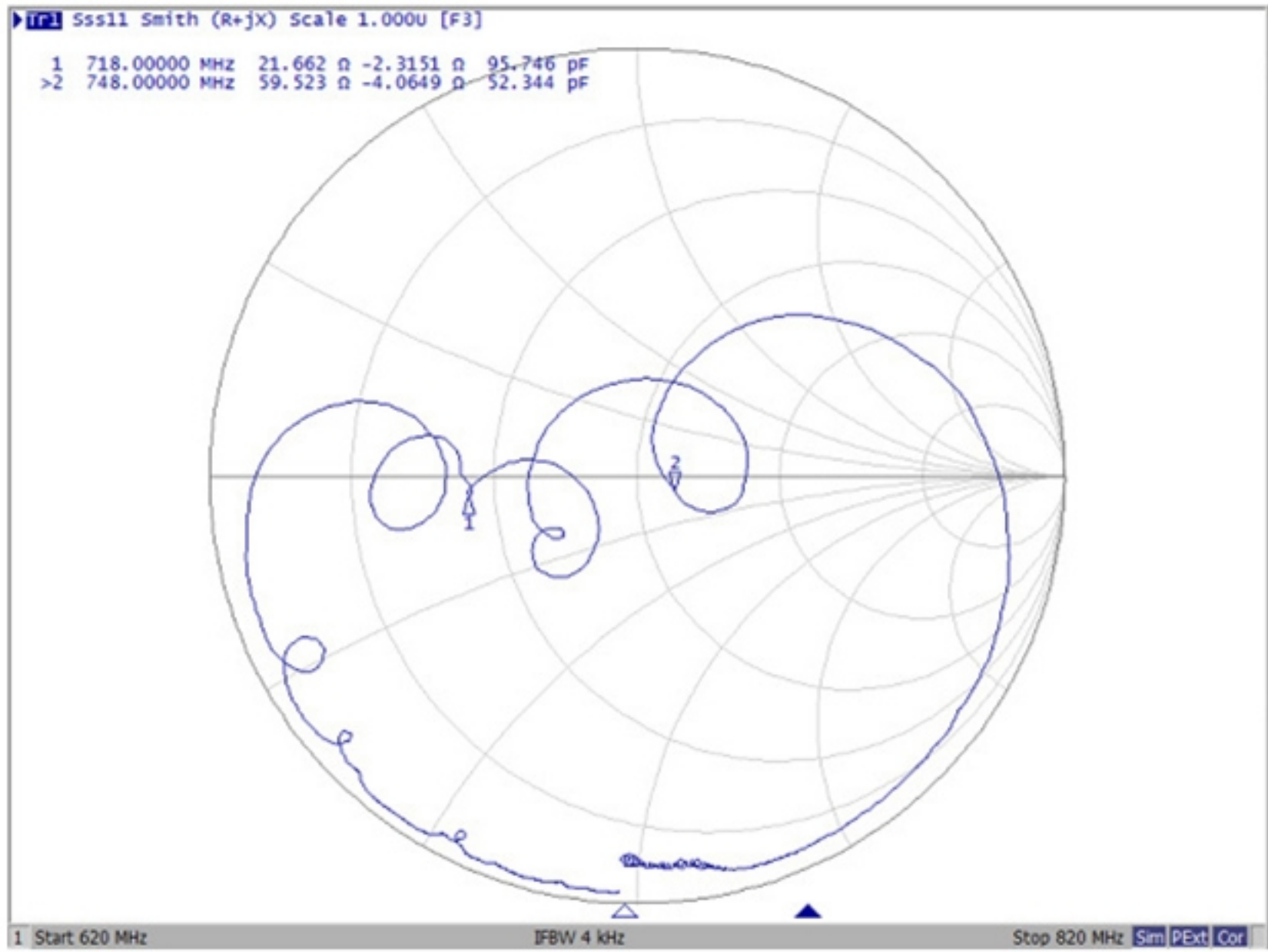


S22

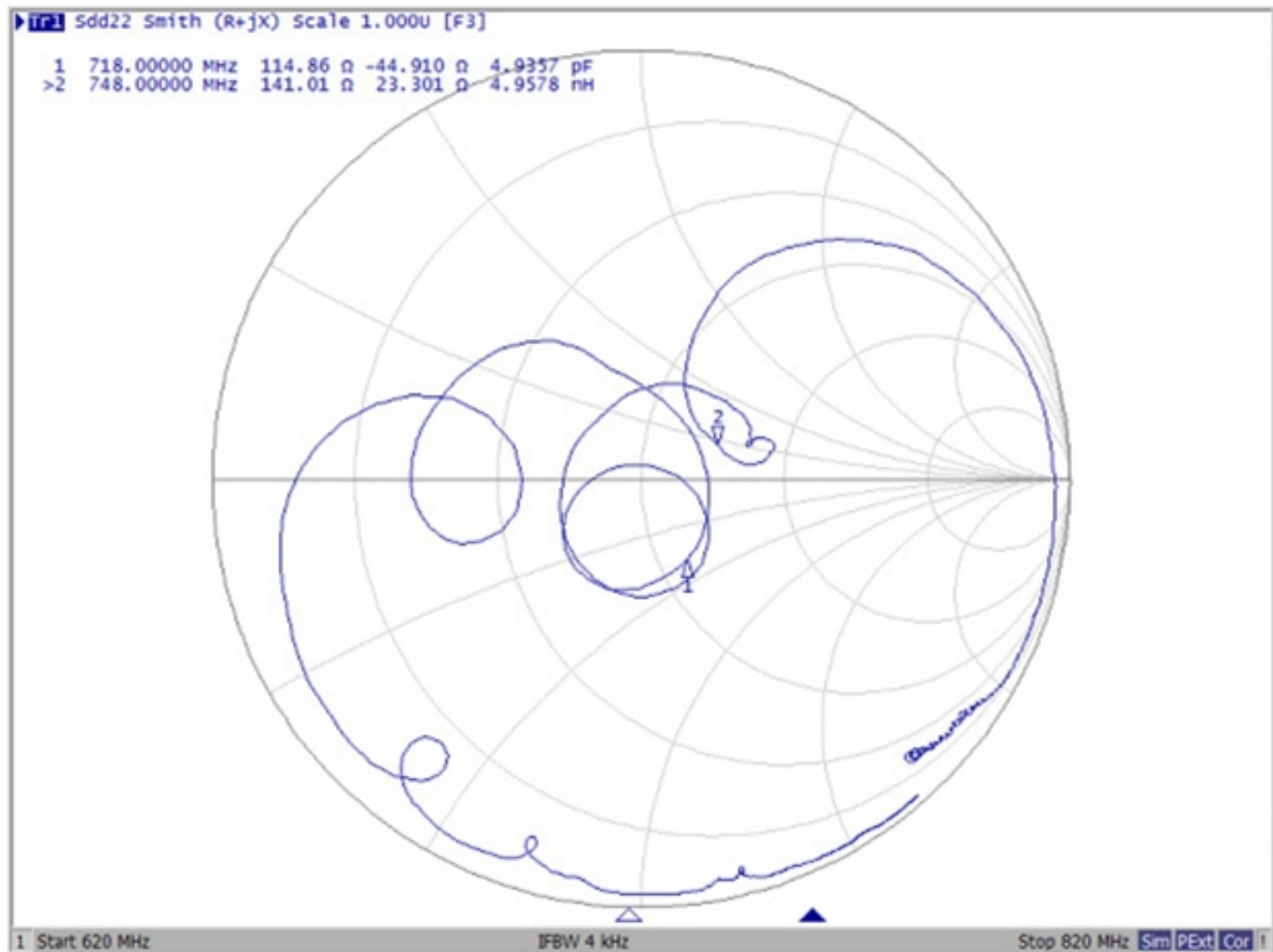


3. Smith Chart

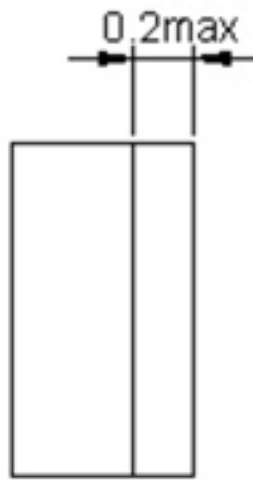
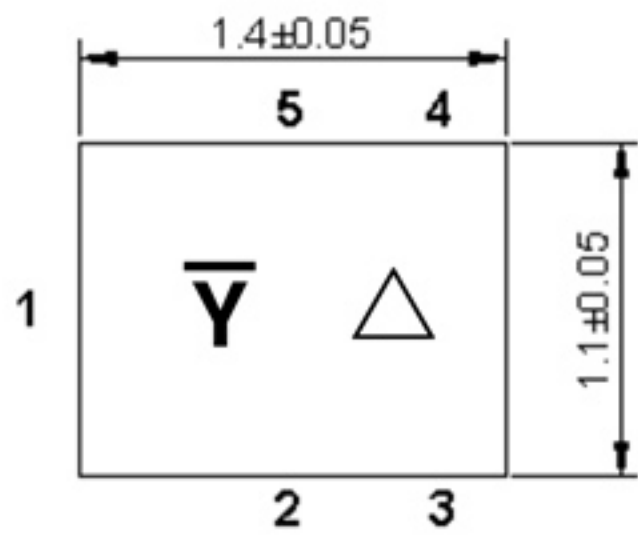
S11



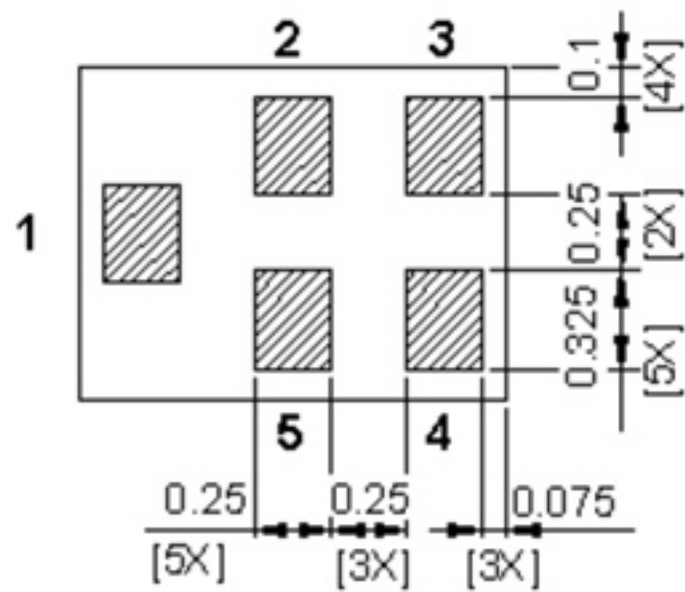
S22



D. Outline Drawing :



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



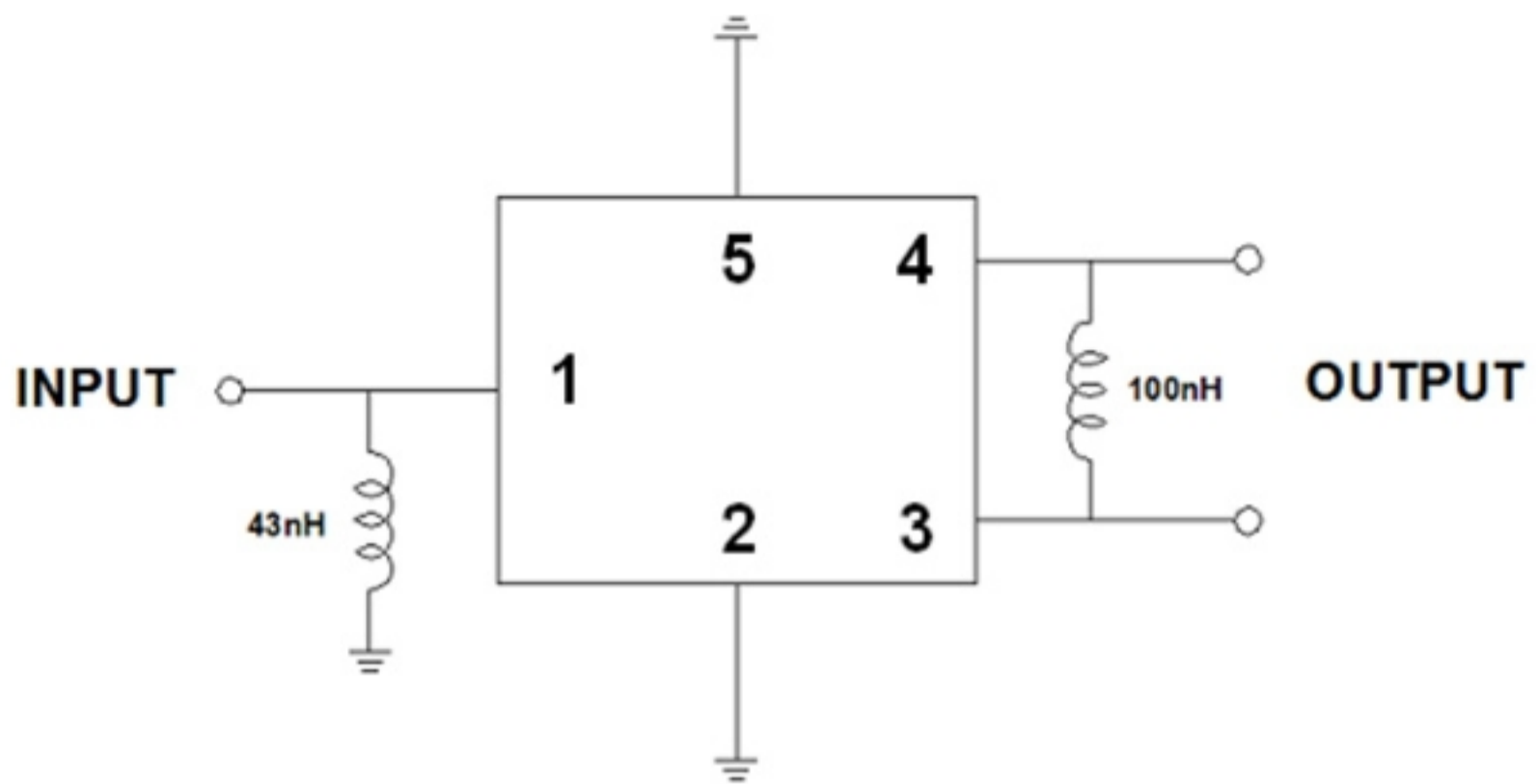
Pin Description	
1	Input
3,4	Balanced Output
2,5	Ground

Marking Descriptions	
\bar{Y}	Series Number
\triangle	Date Code(Year+Month)

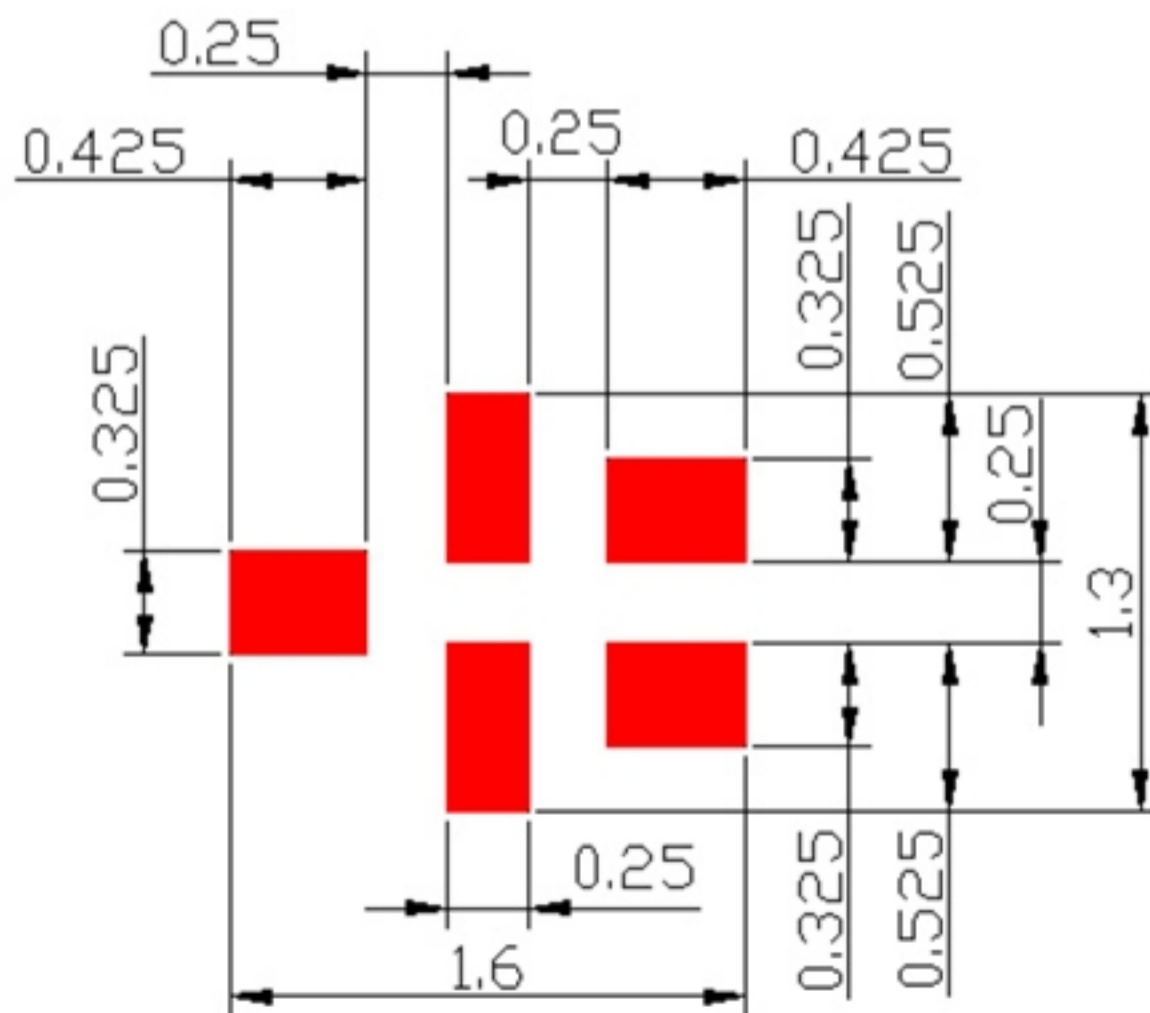
Date Code: (Follow the table) (8-year cycle)


Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
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. Matching Circuit :



PCB Footprint:

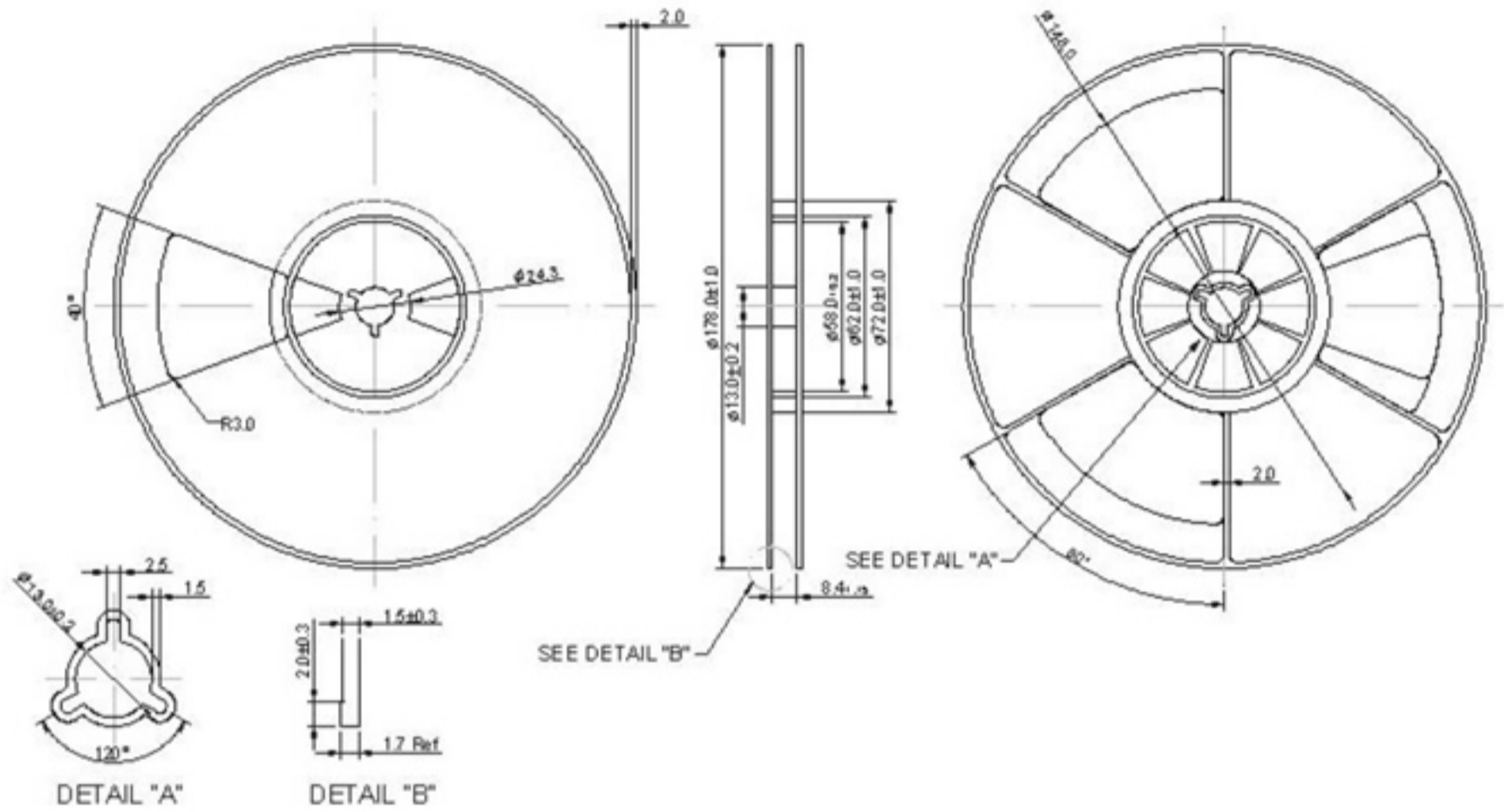


 : Land Pattern
Unit : mm

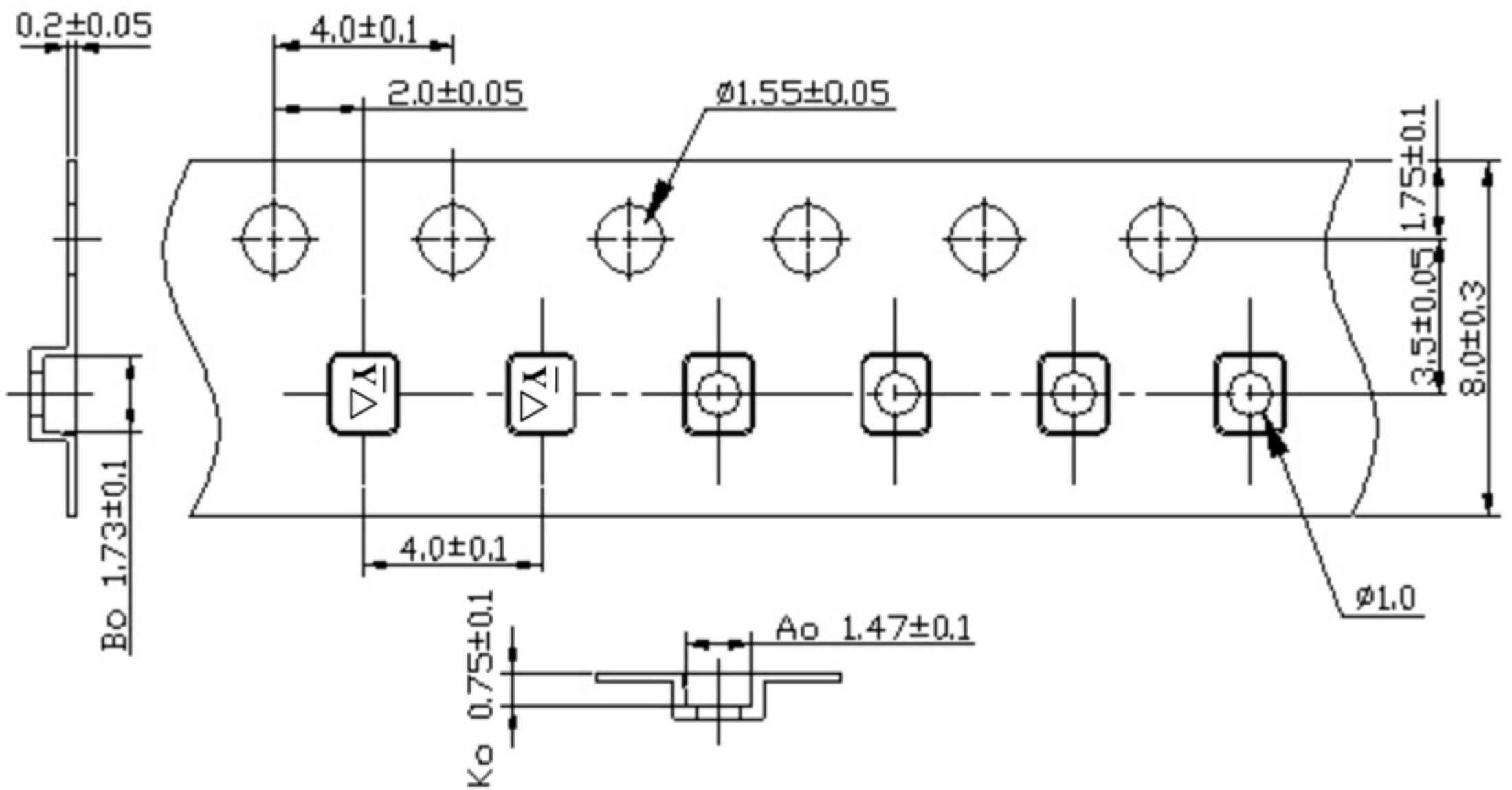
F. PACKING:

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

