



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW TRX Filter 2595 MHz Band41 SMD 1109(BW=120MHz)

TST Part No.: TA2405B(This part is compliant with AEC-Q200)

Customer Part No.: _____

Customer signature required

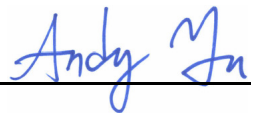
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2020/02/14

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW TRX Filter 2595MHz Band41 SMD1.1x0.9mm (120MHz BW)

MODEL NO.:TA2405B

REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level:

@ Input Power(2535~2655MHz): 29dBm,TD-LTE5MHz(50% duty cycle), +50 °C, 5000H

@ Input Power(2575~2635MHz): 32dBm,TD-LTE5MHz(50% duty cycle), +50 °C, 5000H

2. DC Voltage : 5V

3. Operating Temperature: -40 °C to +85 °C

4. Storage Temperature: -55 °C to +125 °C

5. Moisture Sensitivity Level: Level 3

6. ESD 50V(MM) 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

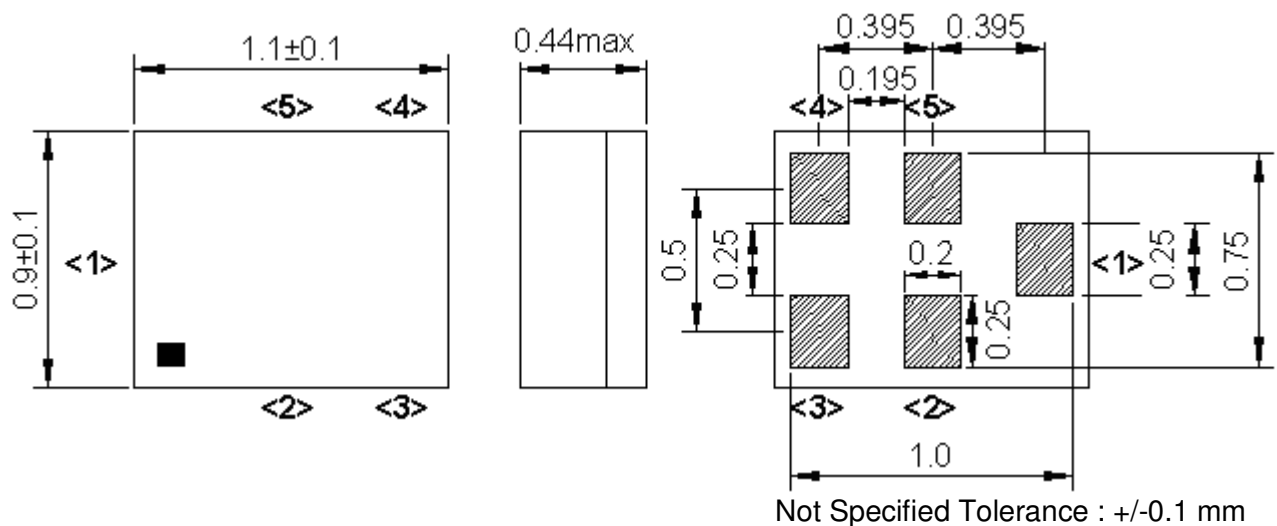
Terminating source impedance : $Z_s = 50 \parallel 3.0\text{nH} \ \Omega$ (Single-ended)

Terminating load impedance : $Z_L = 50 \parallel 3.0\text{nH} \ \Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	2595	-	-
Insertion Loss (2535~2545MHz) IL	dB (*1)	-	2.1	4.5	-30~+25 °C
				3.6	+25~+85 °C
Insertion Loss (2545~2655MHz) IL	dB (*1)	-	1.9	3.0	+23~+27 °C
				3.2	
Input VSWR (2535~2545MHz)		-	1.4	2.4	-30~+25 °C
				2.2	+25~+85 °C
Input VSWR (2545~2655MHz)			1.6	2.0	
Output VSWR (2535~2545MHz)			1.4	2.4	-30~+25 °C
				2.2	+25~+85 °C
Output VSWR (2545~2655MHz)			1.6	2.0	
Attenuation (reference level from 0 dB)					
10 ~ 960 MHz	dB	40	56	-	-
1225 ~ 2400 MHz	dB	30	35	-	-
2400 ~ 2483 MHz	dB	36	42	-	-
2750 ~ 4900 MHz	dB	30	38	-	-
4900 ~ 8000 MHz	dB	28	36	-	

(*1) Specification of insertion loss excludes loss that comes from the test board.

C.OUTLINE DRAWING:

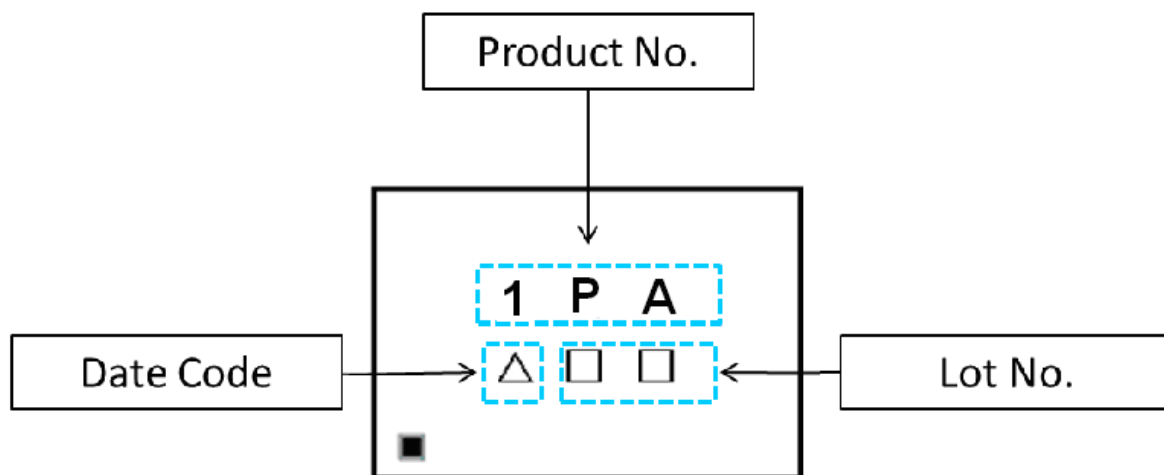


Pin assignment

Pin No.	Pin name	Description
1	In	Input
2	GND	Ground
3	GND	Ground
4	Out	Output
5	GND	Ground

Figure 1. Dimensions and Pin assignment

Top View (Mass Production):



Marking name : 1PA

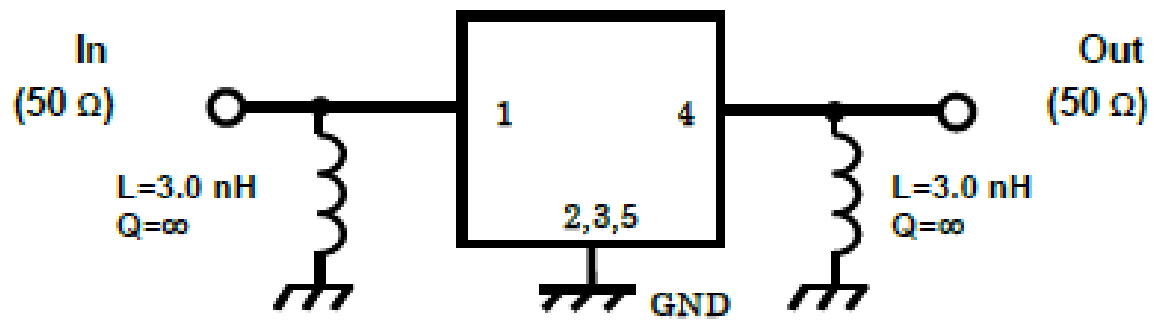
△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Date Code table. (4-year cycle)

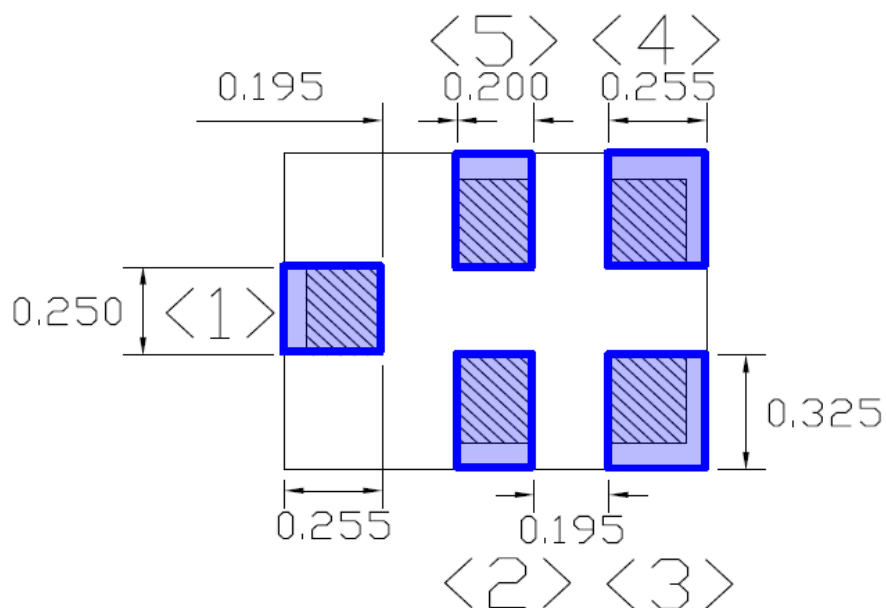
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z
2021	A	B	C	D	E	F	G	H	J	K	L	M

D.MEASUREMENT CIRCUIT:



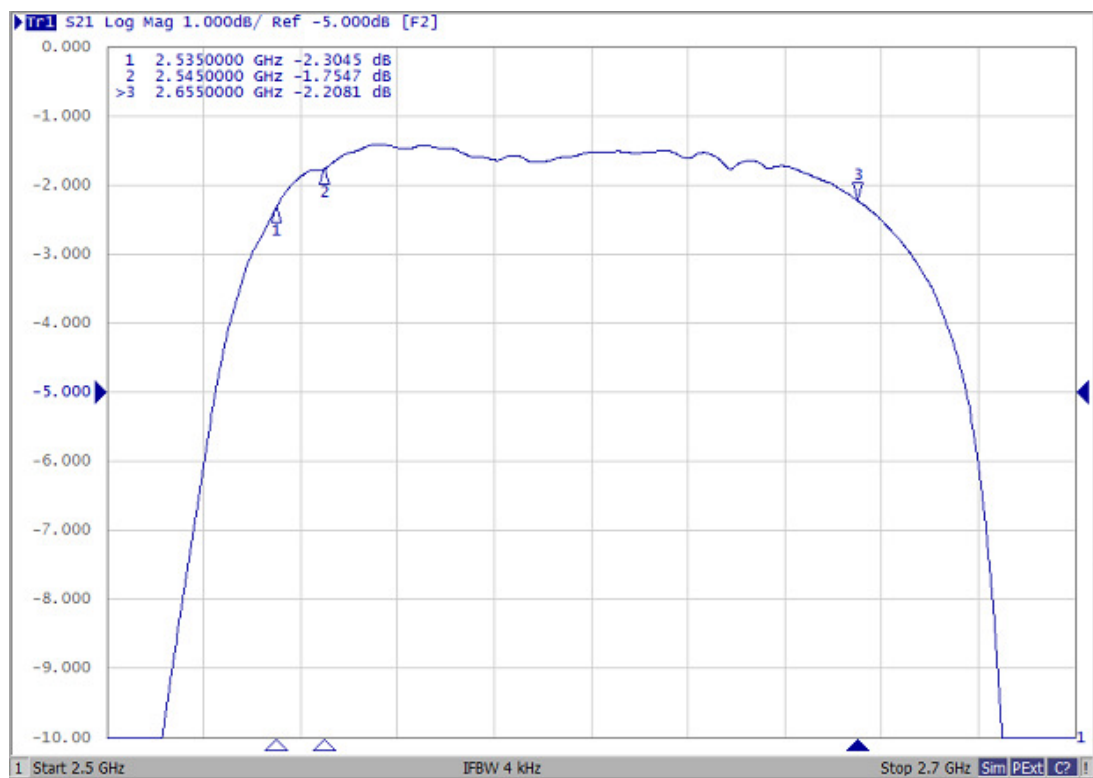
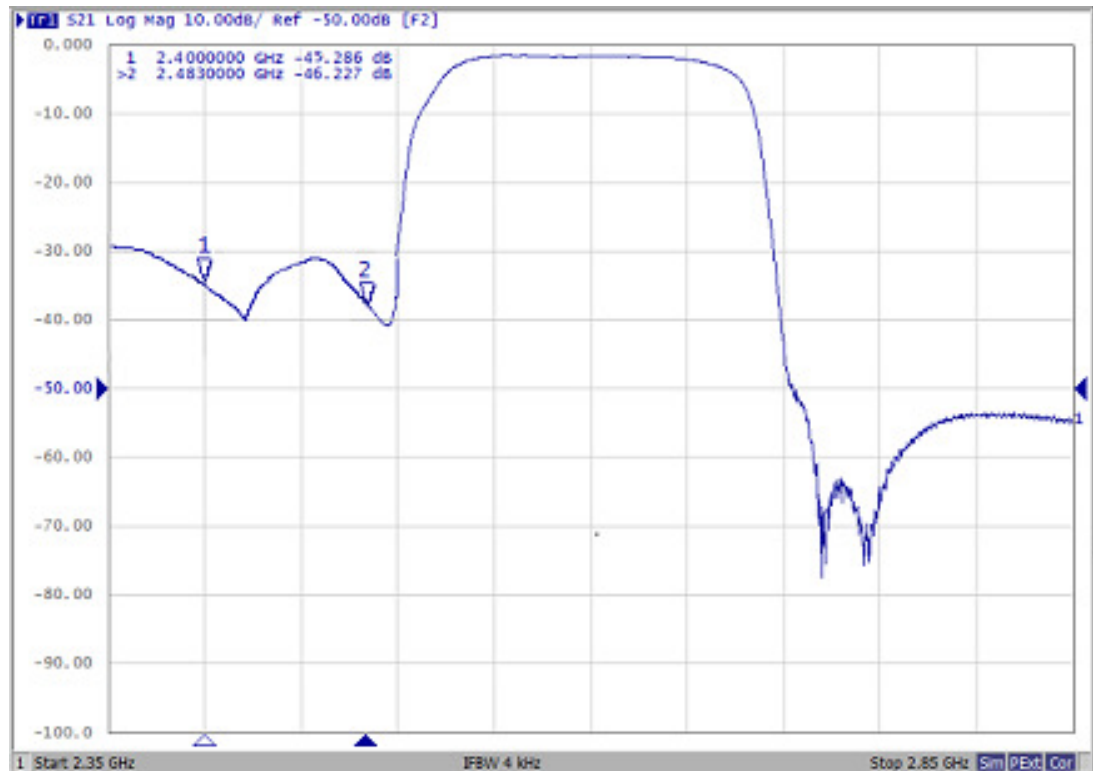
1 to 5: Pin No.

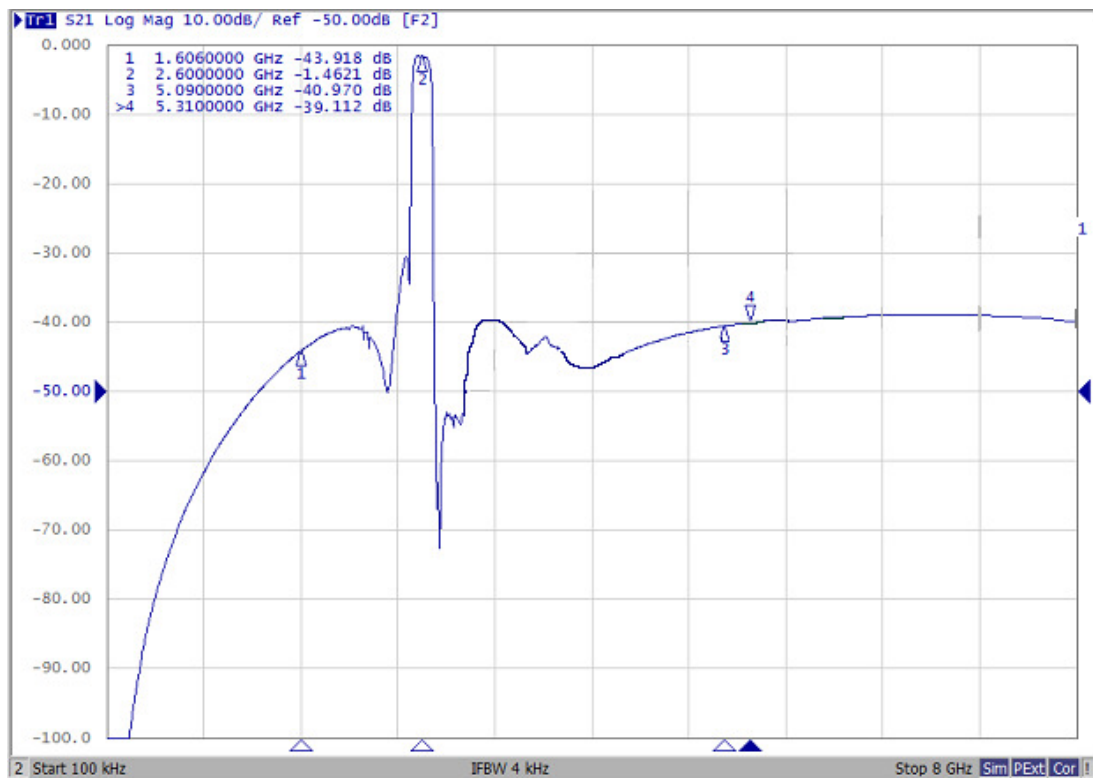
E.PCB Footprint :



F.Frequency Characteristics

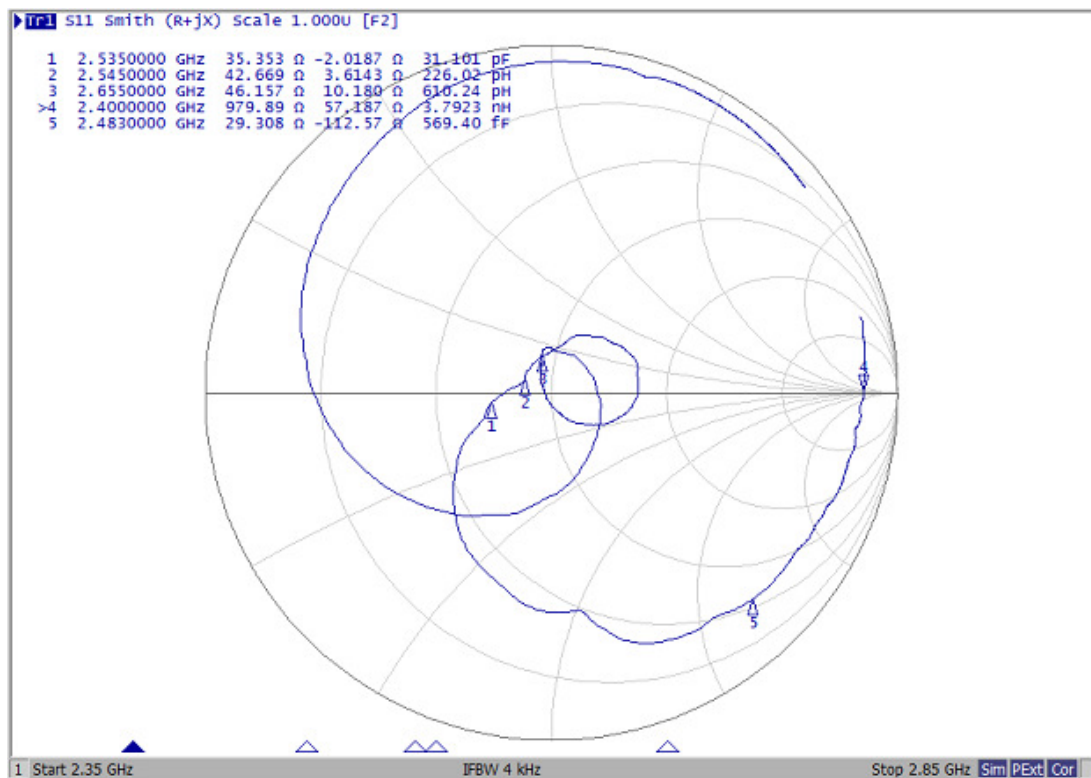
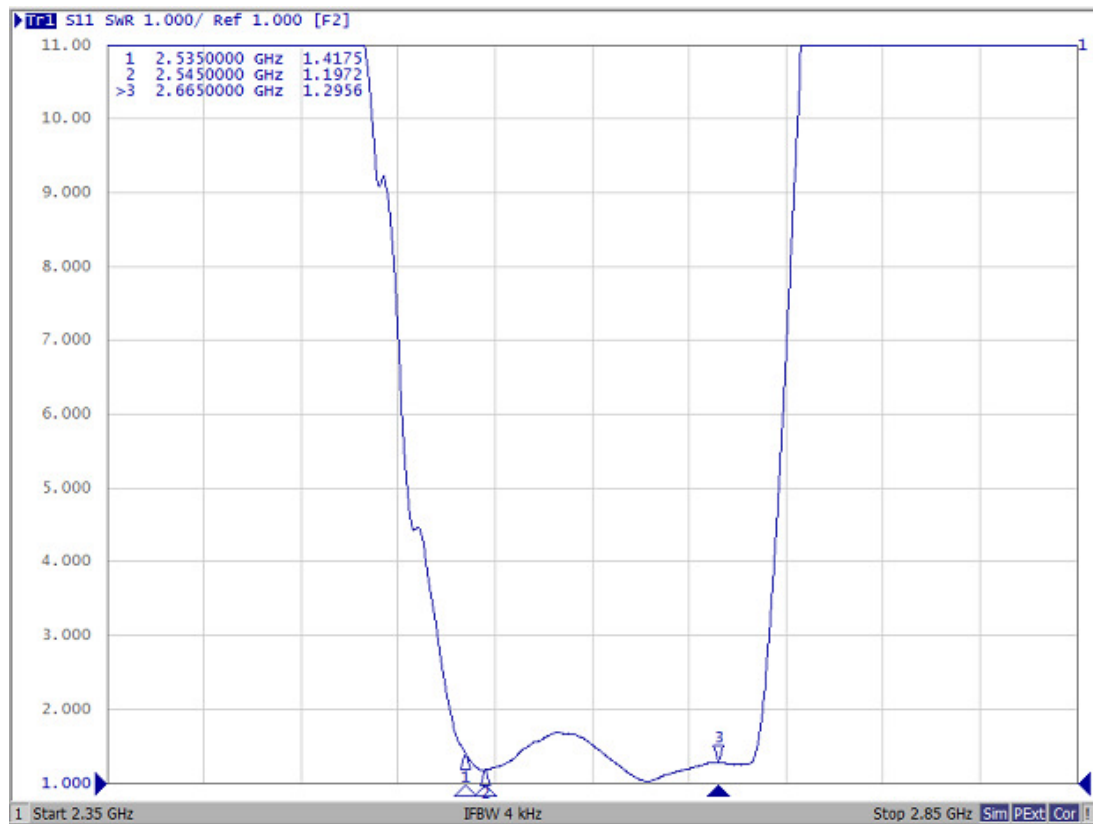
Passband



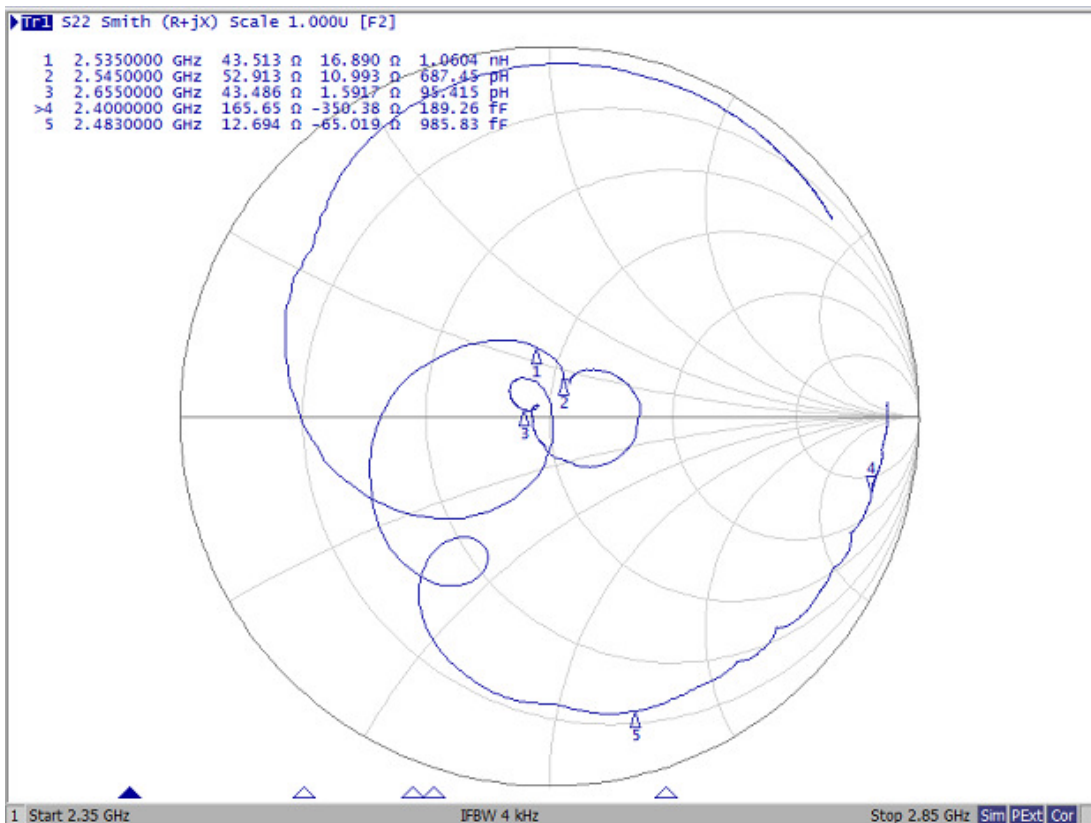
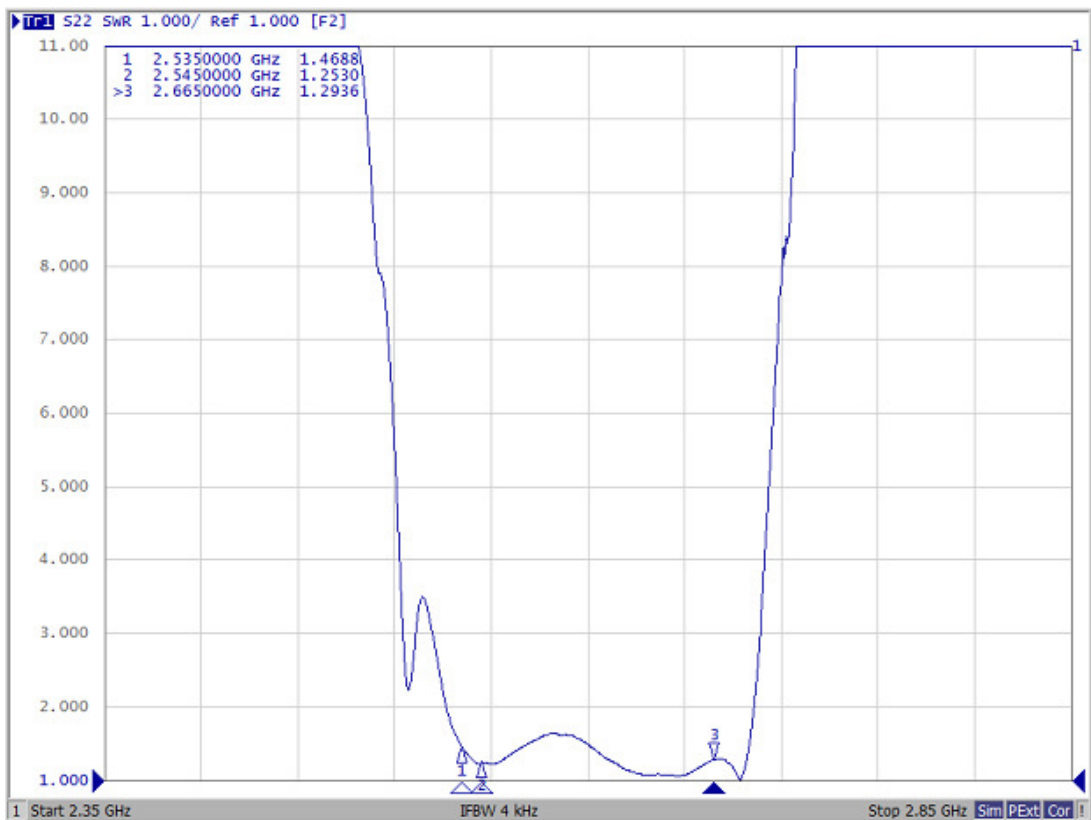


Reflection Functions :

VSWR 11



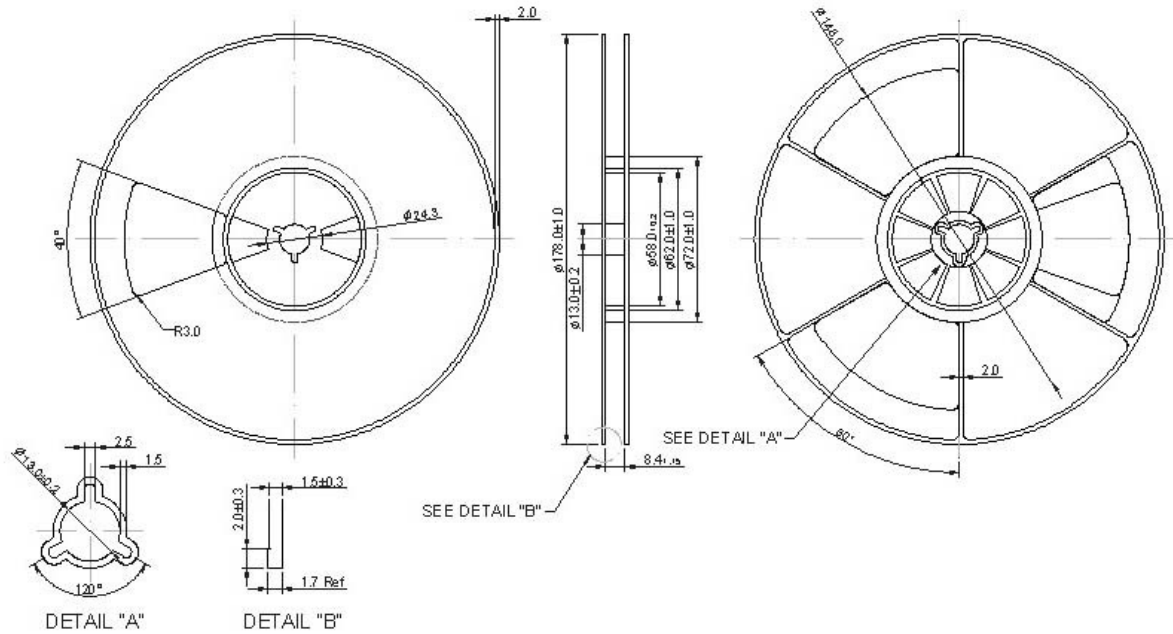
VSWR 22



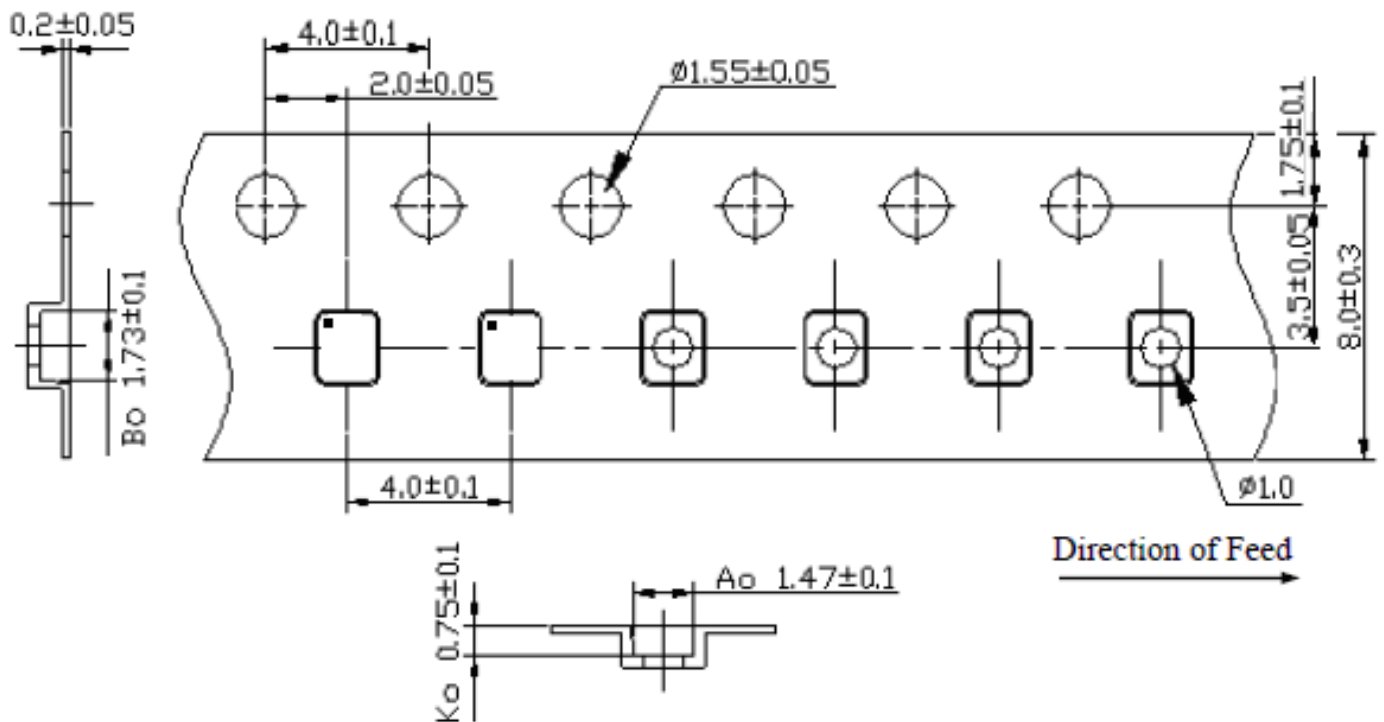
G. PACKING:

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 : 3 times.

