TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Rx Filter 2355 MHz Band30 SMD 1109(BW=10MHz)

TST Part No.: TA2574A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen _____

Approved by:_____ Andy Yu _____

Date:_____ 2019.09.25 _____

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 RX Filter 2355MHz Band30 SMD1.1x0.9mm (10MHz BW)

MODEL NO.:TA2574A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: +20dBm (Ta=+50deg C,5000h,CW)
2. DC Voltage : 5V
3. Operating Temperature: -20℃ to +85℃
4. Storage Temperature: -40℃ to +100℃
5. Moisture Sensitivity Level: Level 3 (MSL 3)
6 .ESD 50V(MM) 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

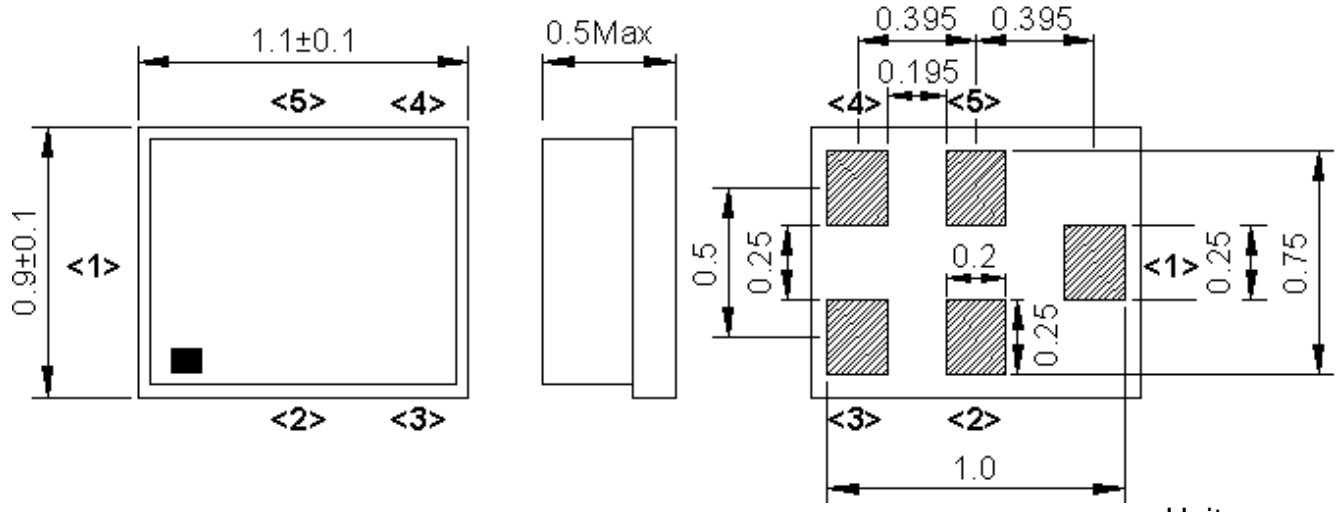
Terminating source impedance : Zs = 50 Ω(Single-ended)

Terminating load impedance : Z_L = 50 Ω(Single-ended)

Item		Unit	Min.	Typ.	Max.	Note
Center Frequency	**Fc**	MHz	-	2355	-	-
Insertion Loss (2350 ~2360MHz)	**IL**	dB(*1)	-	2.1	2.9	
Ripple (2350 ~2360MHz)	**dB**	dB		0.3	1.2	
Input VSWR (2350 ~2360MHz)			-	1.6	2.0	-
Output VSWR (2350 ~2360MHz)				1.5	2.0	
Attenuation (reference level from 0 dB)						
1~ 2305 MHz		dB	35	41	-	
2305 ~ 2315 MHz		dB	39	50		
2400 ~ 2500 MHz		dB	35	38		
2500 ~ 2570 MHz		dB	40	43		
2570 ~ 6000 MHz		dB	22	32		

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

C.OUTLINE DRAWING:



Unit: mm
Not Specified Tolerance : +/-0.1 mm

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

Marking:

Marking name : SE

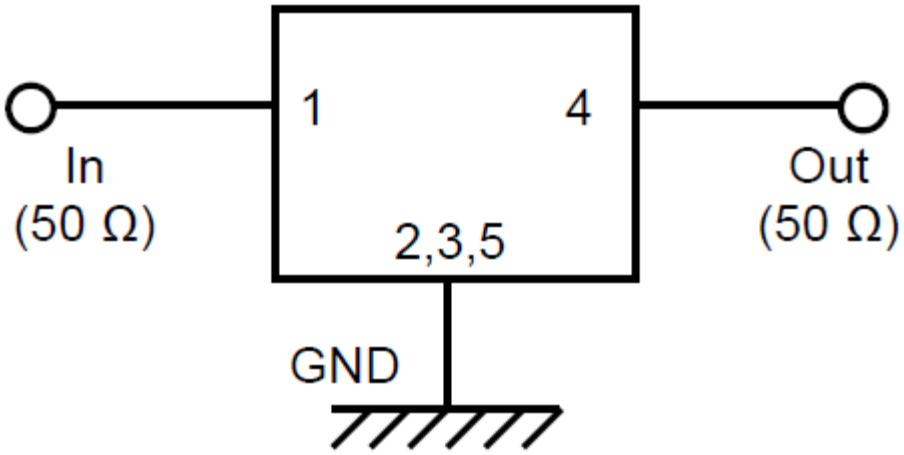
△ : Date Code

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

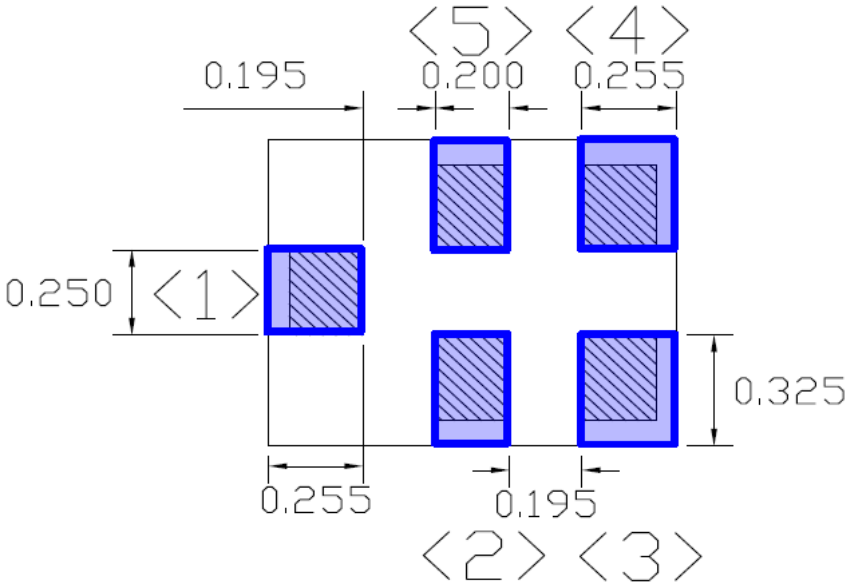
Date Code

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017 / 2021	A	B	C	D	E	F	G	H	J	K	L	M
2018 / 2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019 / 2023	a	b	c	d	e	f	g	h	j	k	l	m
2020 / 2024	n	p	q	r	s	t	u	v	w	x	y	z

D.MEASUREMENT CIRCUIT:

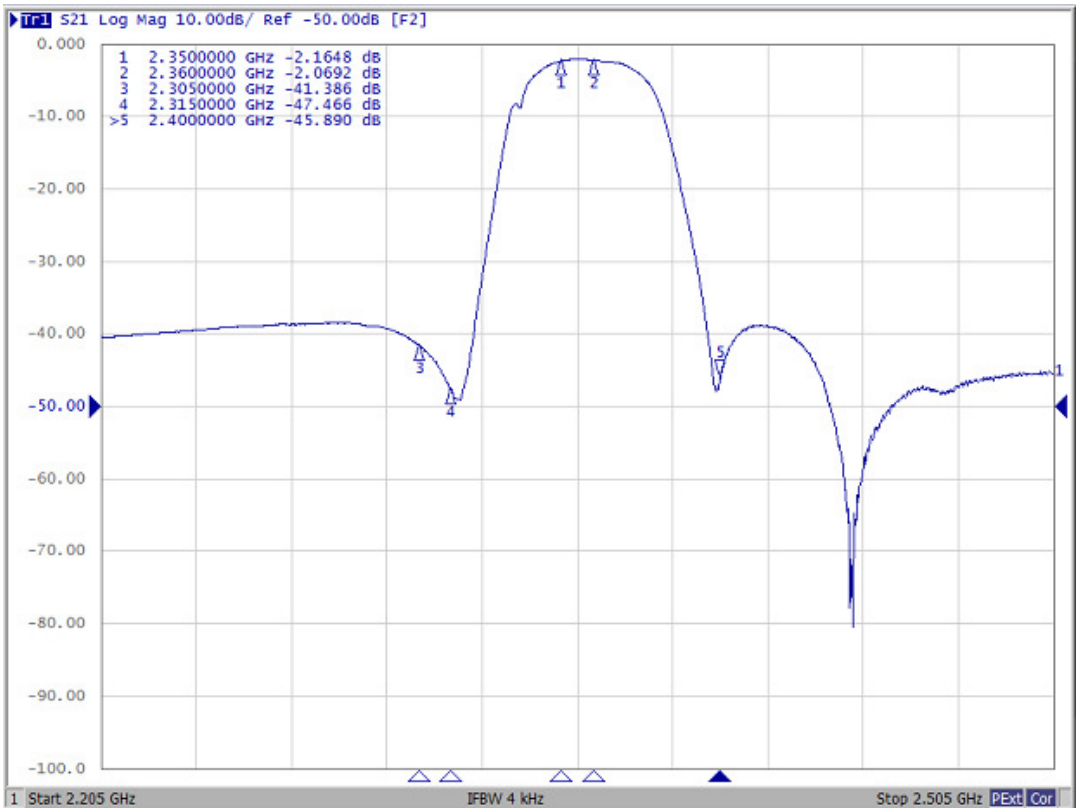


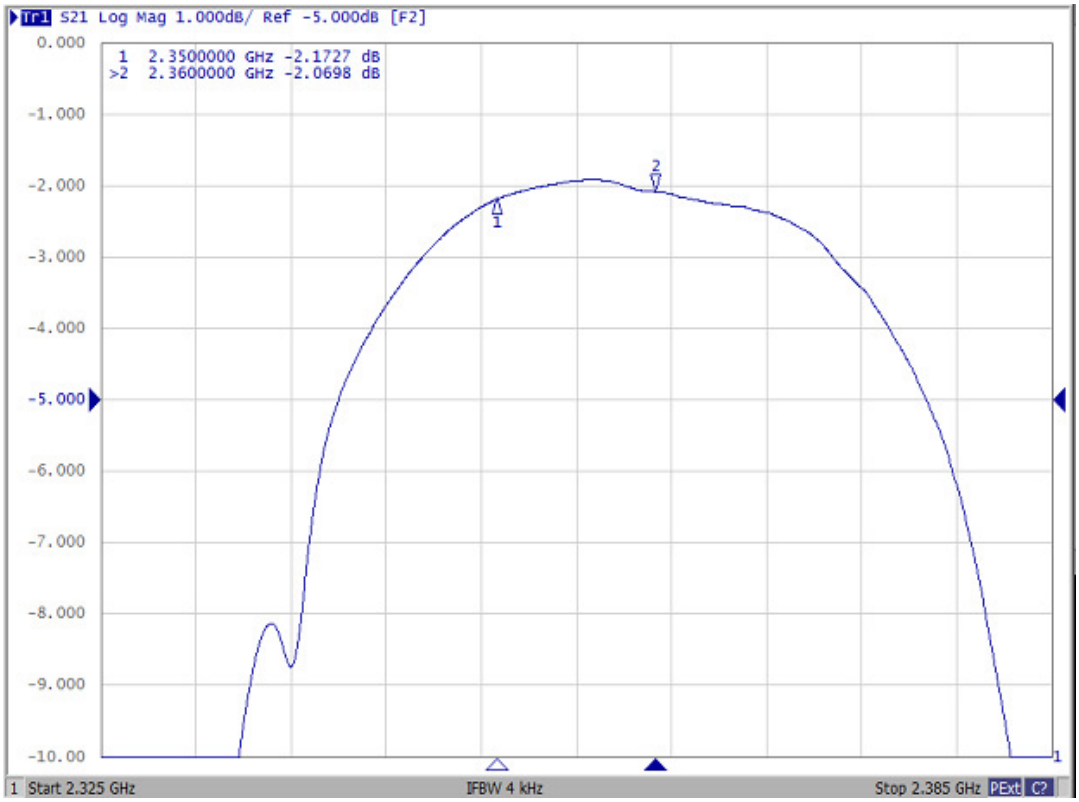
E.PCB Footprint：



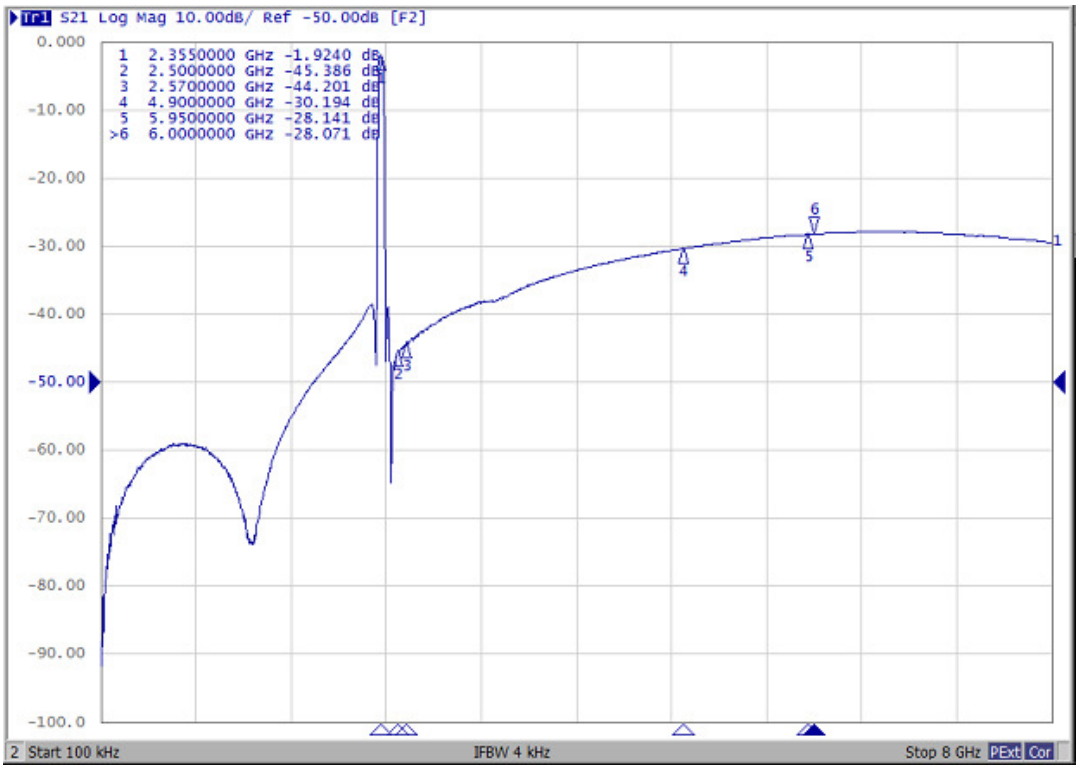
C. FREQUENCY CHARACTERISTICS:

Passband



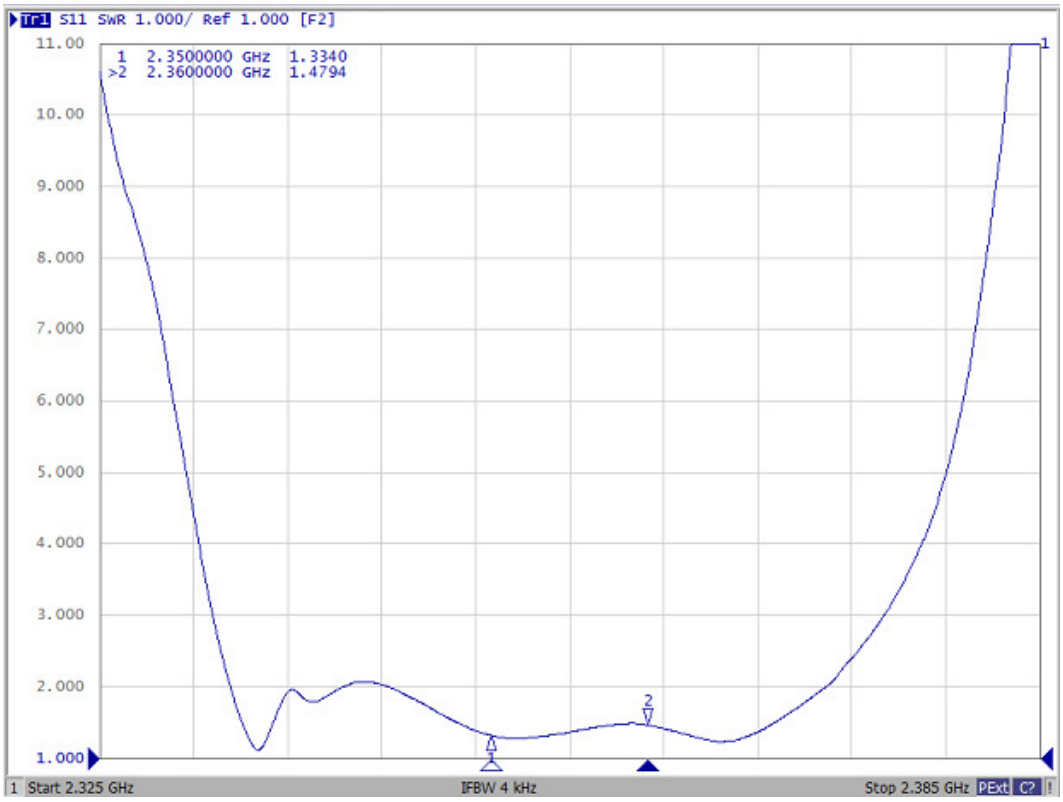


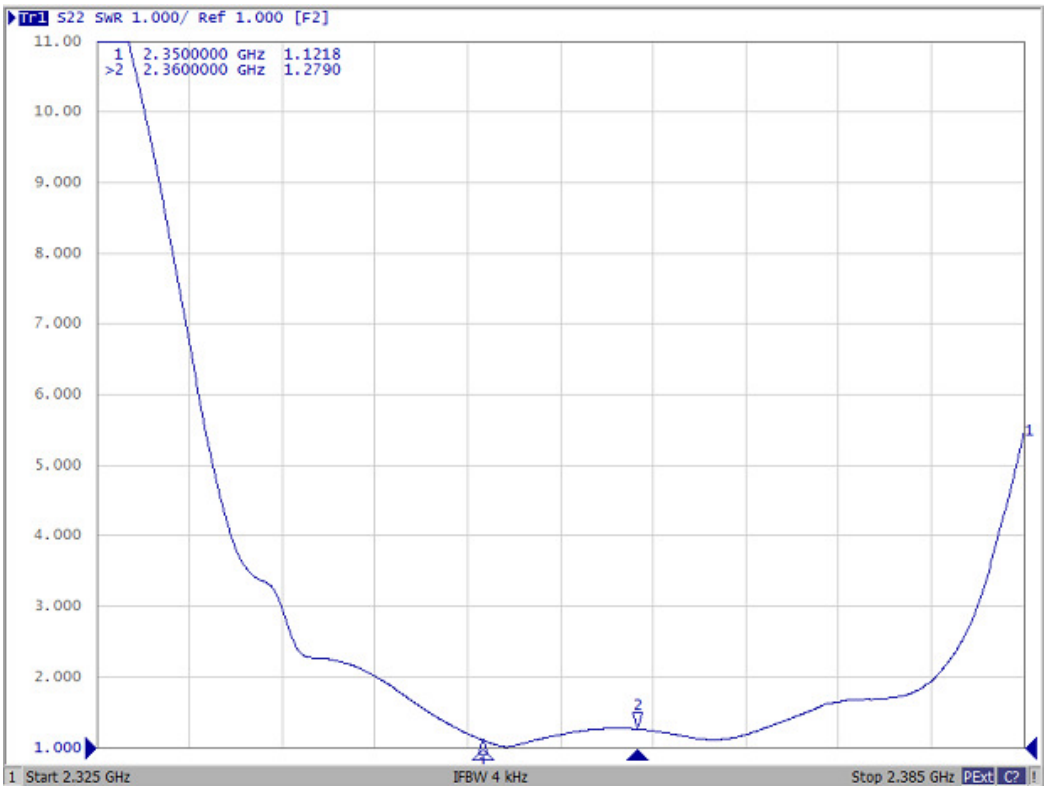
Wideband


Tr1 S21 Log Mag 10.00dB/ Ref -50.00dB [F2]
1 2.3550000 GHz -1.9240 dB
2 2.5000000 GHz -45.386 dB
3 2.5700000 GHz -44.201 dB
4 4.9000000 GHz -30.194 dB
5 5.9500000 GHz -28.141 dB
>6 6.0000000 GHz -28.071 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.0
2 Start 100 kHz
IFBW 4 kHz
Stop 8 GHz
PExt
Cor

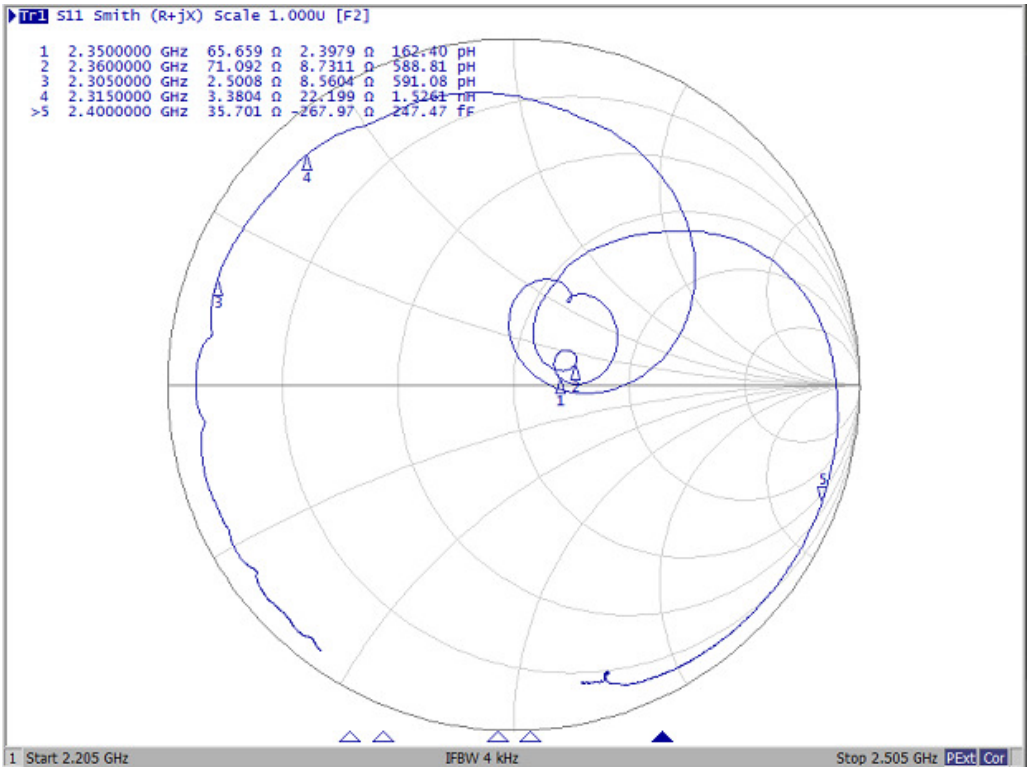
Reflection Functions :

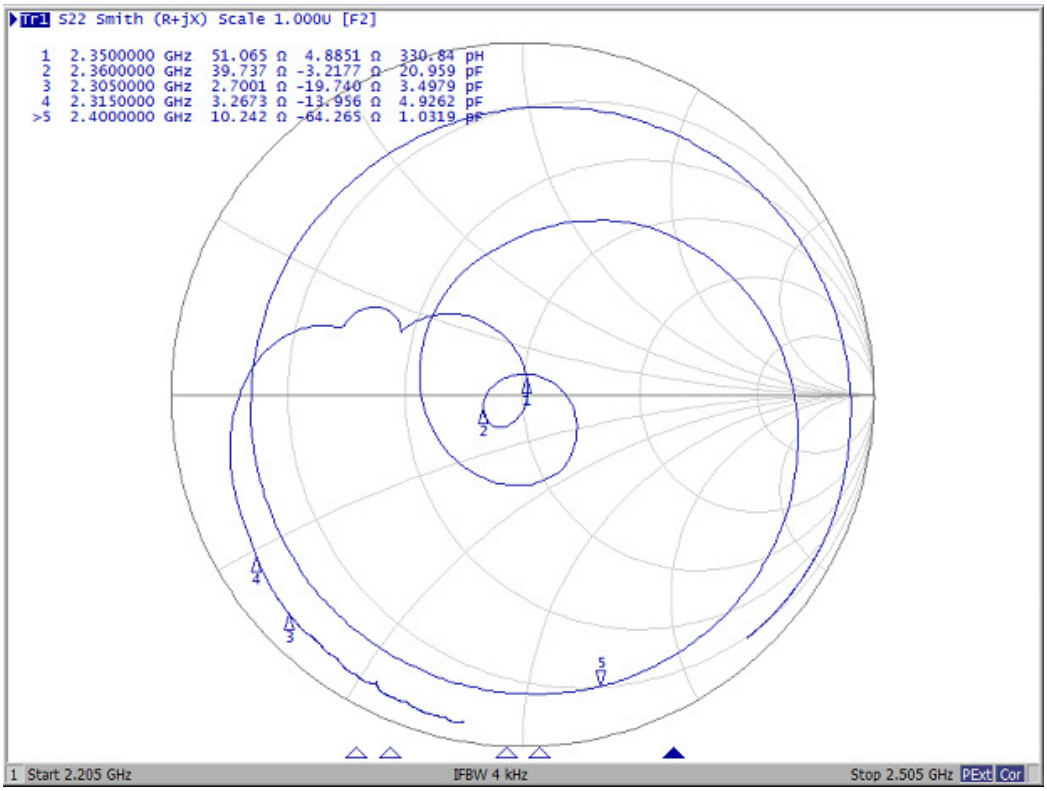
VSWR





Smith Chart

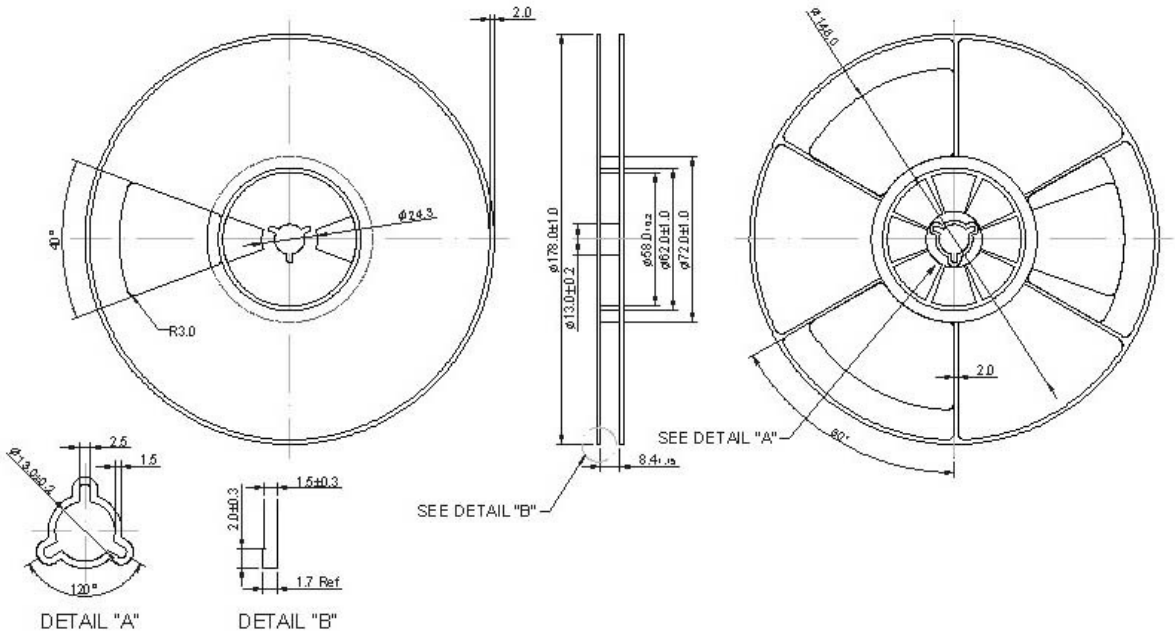

Tr1 S11 Smith (R+jX) Scale 1.000U [F2]
1 2.3500000 GHz 65.659 Ω 2.3979 Ω 162.40 pH
2 2.3600000 GHz 71.092 Ω 8.7311 Ω 588.81 pH
3 2.3050000 GHz 2.5008 Ω 8.5604 Ω 591.08 pH
4 2.3150000 GHz 3.3804 Ω 22.199 Ω 1.5261 nH
>5 2.4000000 GHz 35.701 Ω -267.97 Ω 247.47 fF
1 Start 2.205 GHz
IFBW 4 kHz
Stop 2.505 GHz PExt Cor


Tr1 S22 Smith (R+jX) Scale 1.000U [F2]
1 2.3500000 GHz 51.065 Ω 4.8851 Ω 330.84 pH
2 2.3600000 GHz 39.737 Ω -3.2177 Ω 20.959 pF
3 2.3050000 GHz 2.7001 Ω -19.740 Ω 3.4979 pF
4 2.3150000 GHz 3.2673 Ω -13.956 Ω 4.9262 pF
>5 2.4000000 GHz 10.242 Ω -64.265 Ω 1.0319 pF
1 Start 2.205 GHz
IFBW 4 kHz
Stop 2.505 GHz PExt Cor

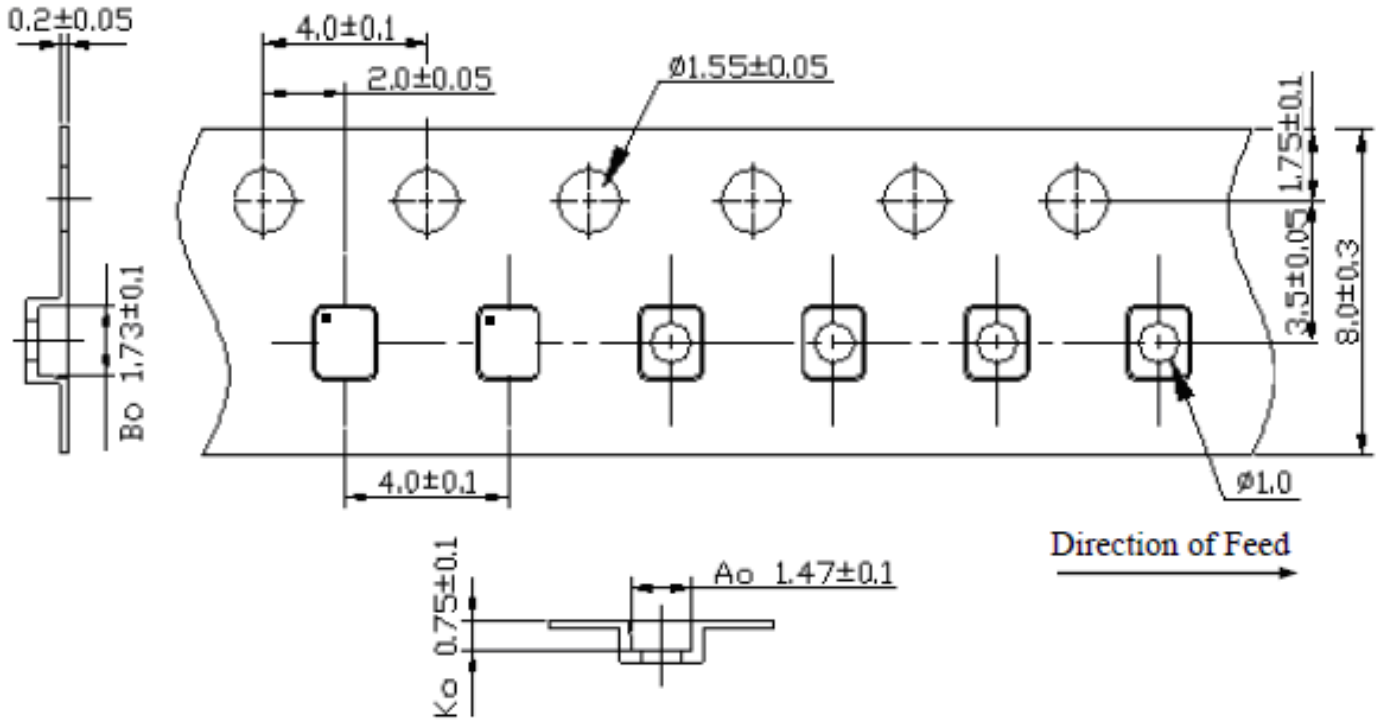
G. PACKING:

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℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.