



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Rx Filter 722.5 MHz Band29 SMD 1109(BW=11MHz)

TST Part No.: TA2575A

Customer Part No.: _____

Customer signature required

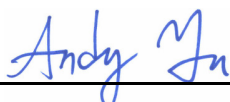
Company: _____

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 722.5MHz Band29 SMD1.1x0.9mm (11MHz BW)

MODEL NO.:TA2575A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: (717~728MHz) +10dBm (Ta=+50deg C,5000h,CW)
2. DC Voltage : 5V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +100℃
5. Moisture Sensitivity Level: Level 3 (MSL 3)
- 6 .ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

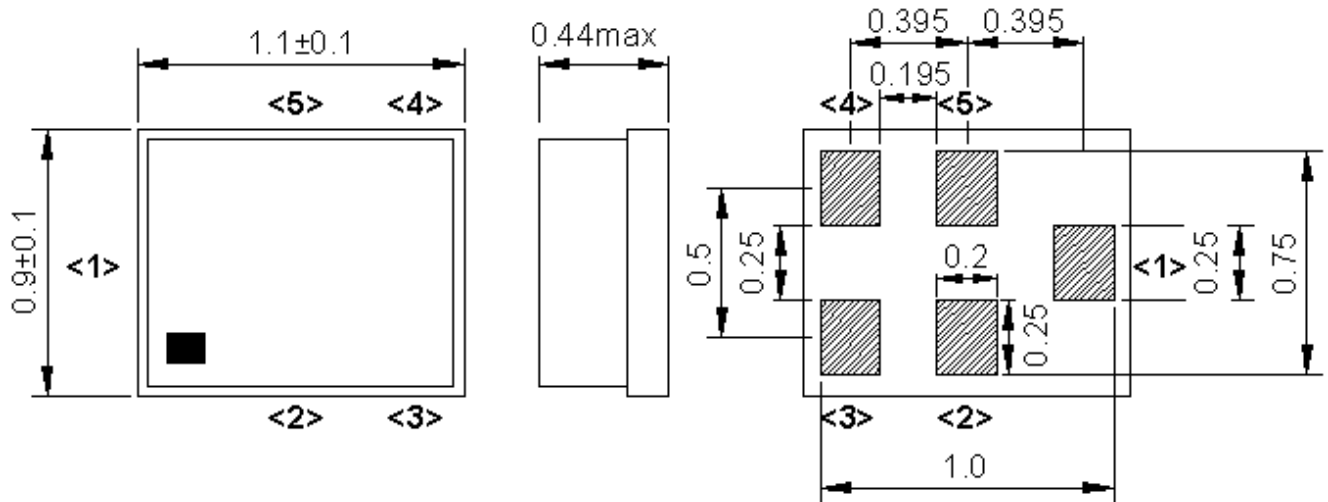
Terminating source impedance : Zs = 50 Ω (Single-ended)

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

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	722.5	-	-
Insertion Loss (717~728MHz) IL	dB(*1)	-	1.6	2.5	
Ripple (717~728MHz) dB	dB		0.5	1.8	
Input VSWR (717~728MHz)		-	1.5	2.5	-
Output VSWR (717~728MHz)			1.5	2.5	
Attenuation (reference level from 0 dB)					
50 ~ 698 MHz	dB	30	40	-	
698 ~ 704 MHz	dB	30	38		
739 ~ 746 MHz	dB	10	20		
1710 ~ 1755 MHz	dB	40	46		
1850 ~ 1910 MHz	dB	40	45		
2400 ~ 2500 MHz	dB	35	42		
4900 ~ 6000 MHz	dB	30	36		

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

C.OUTLINE



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 : fA

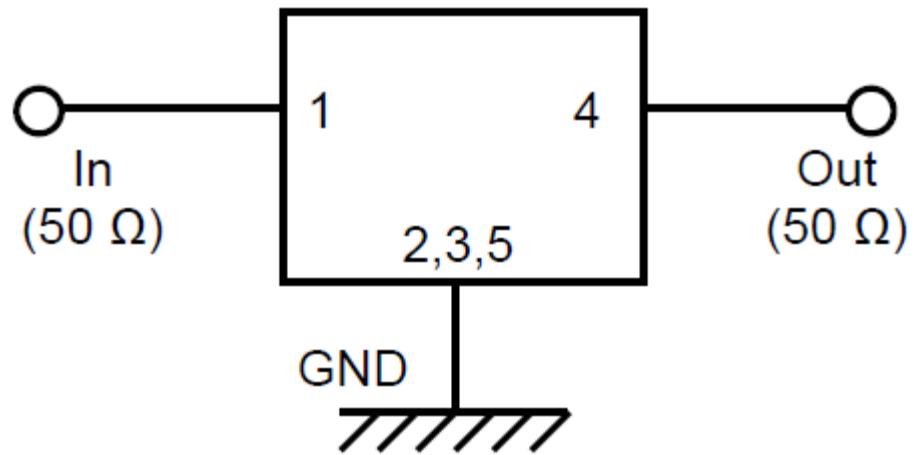
△ : Date Code

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

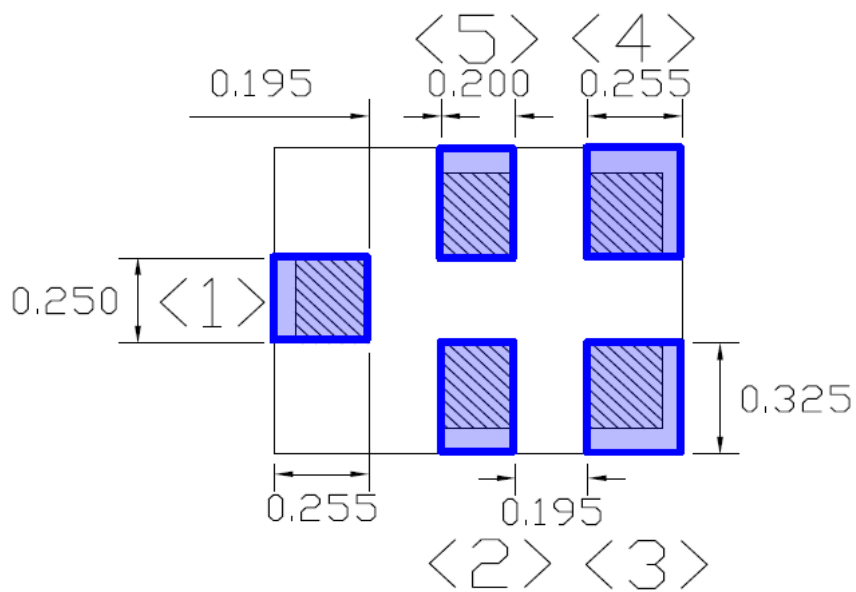
date Code

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:

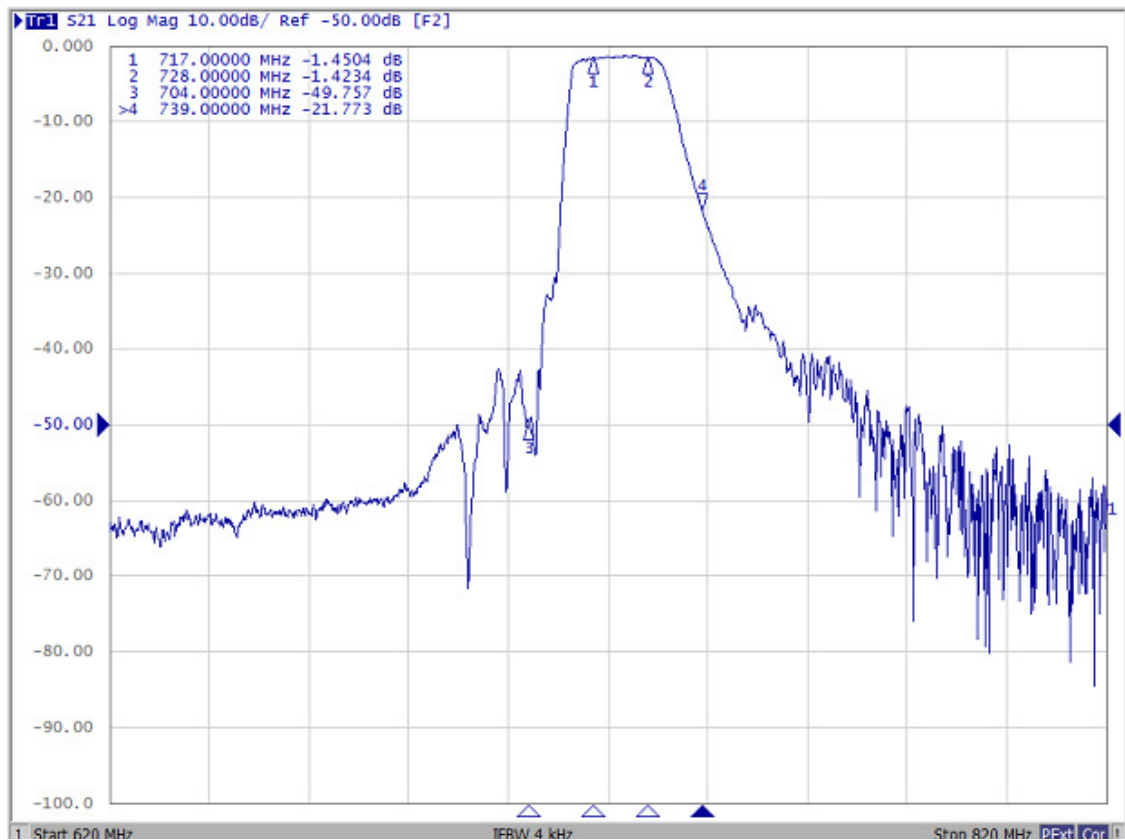


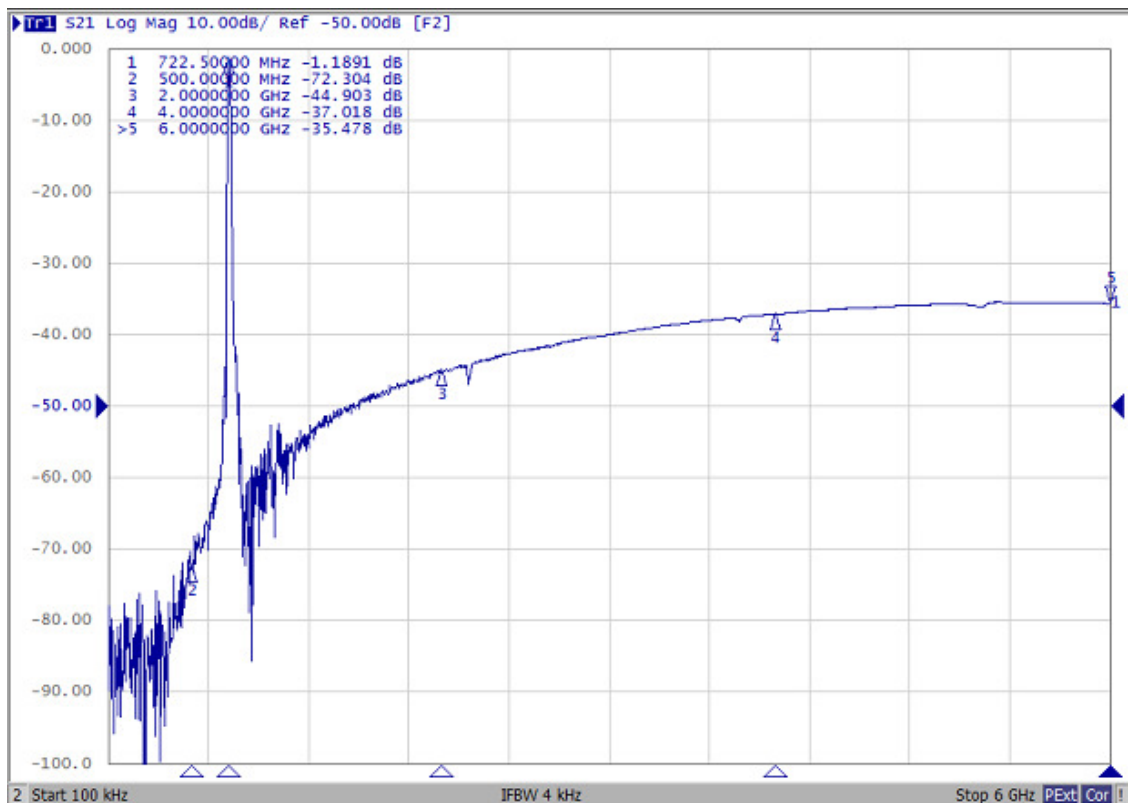
E.PCB Footprint :



F.Frequency Characteristics

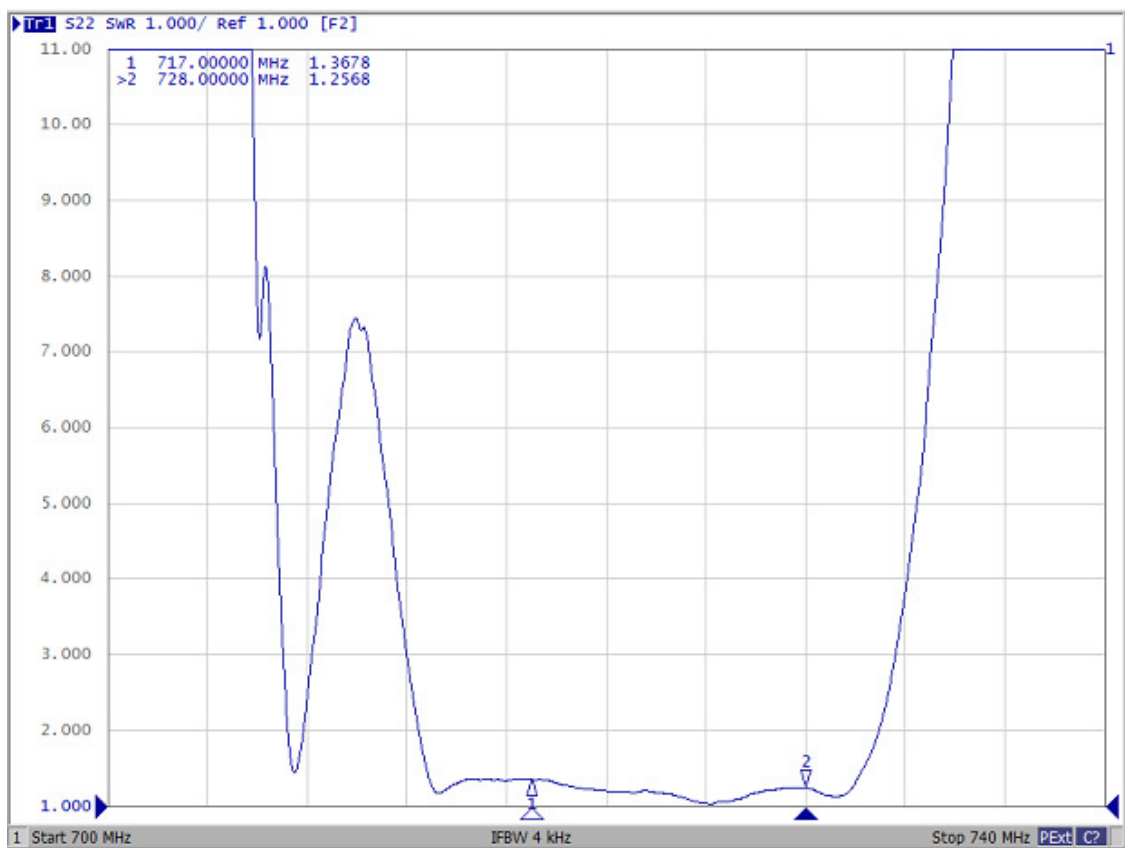
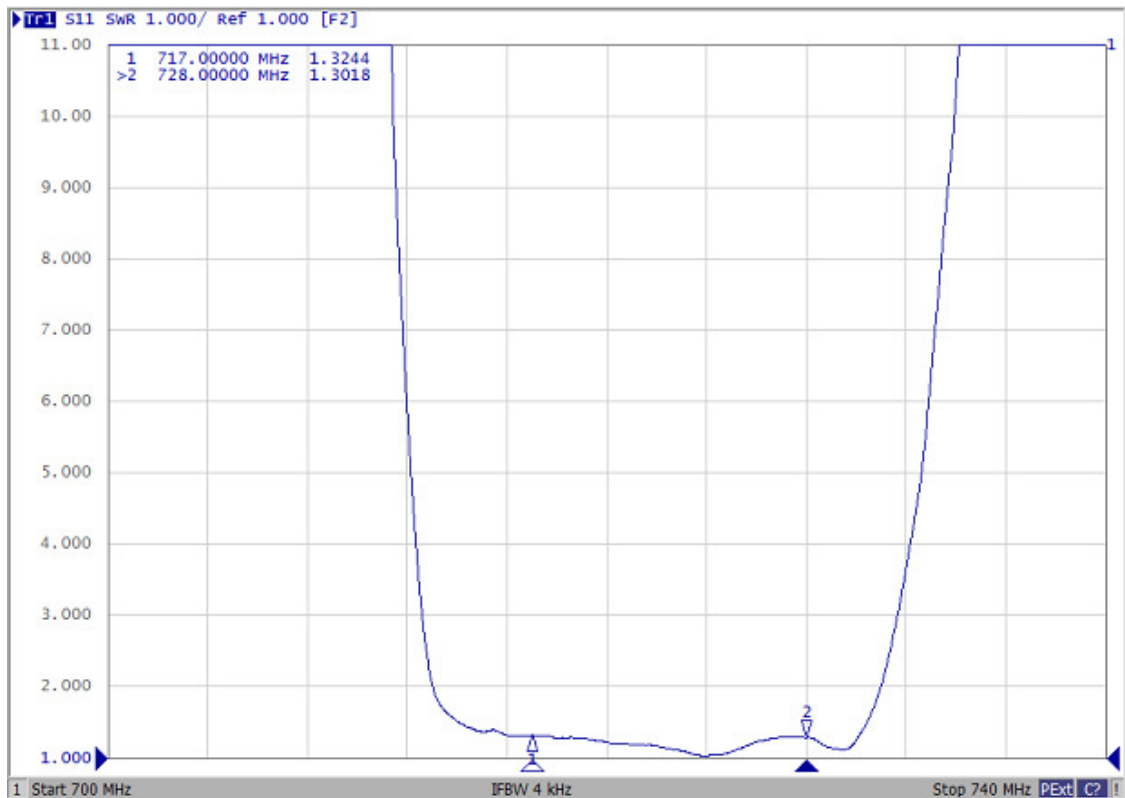
Passband



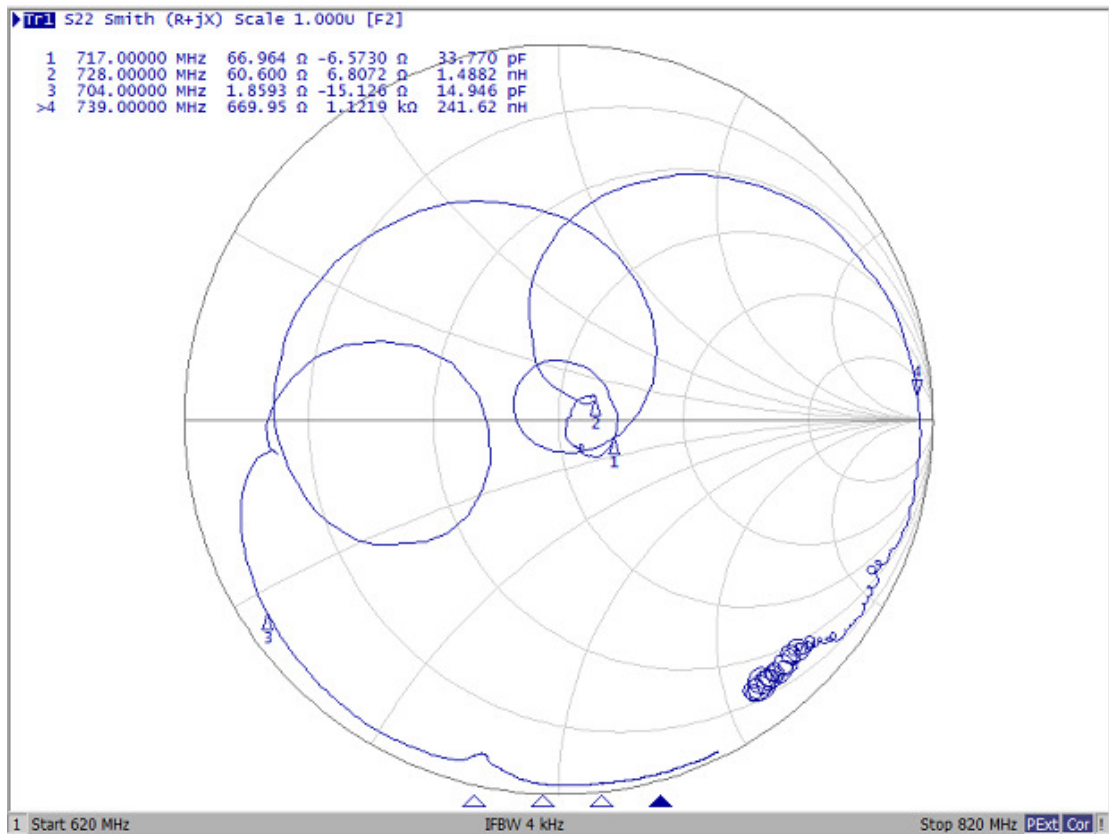
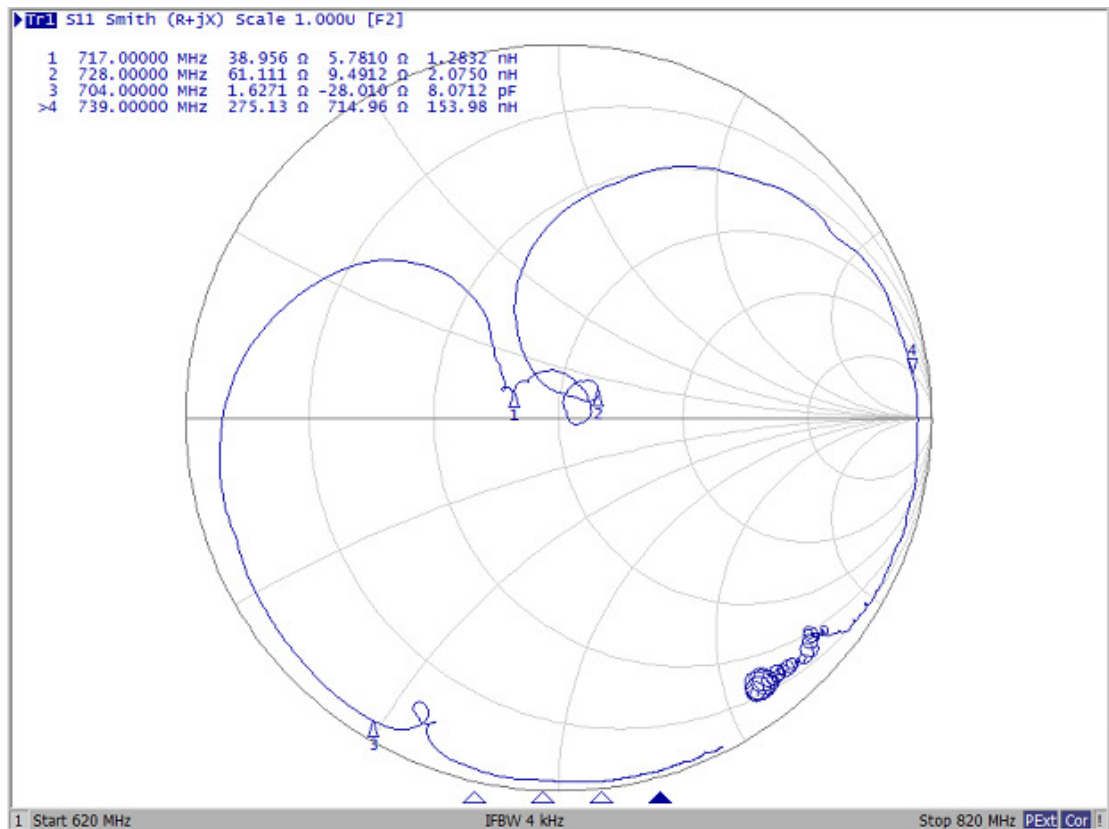


Reflection Functions :

VSWR



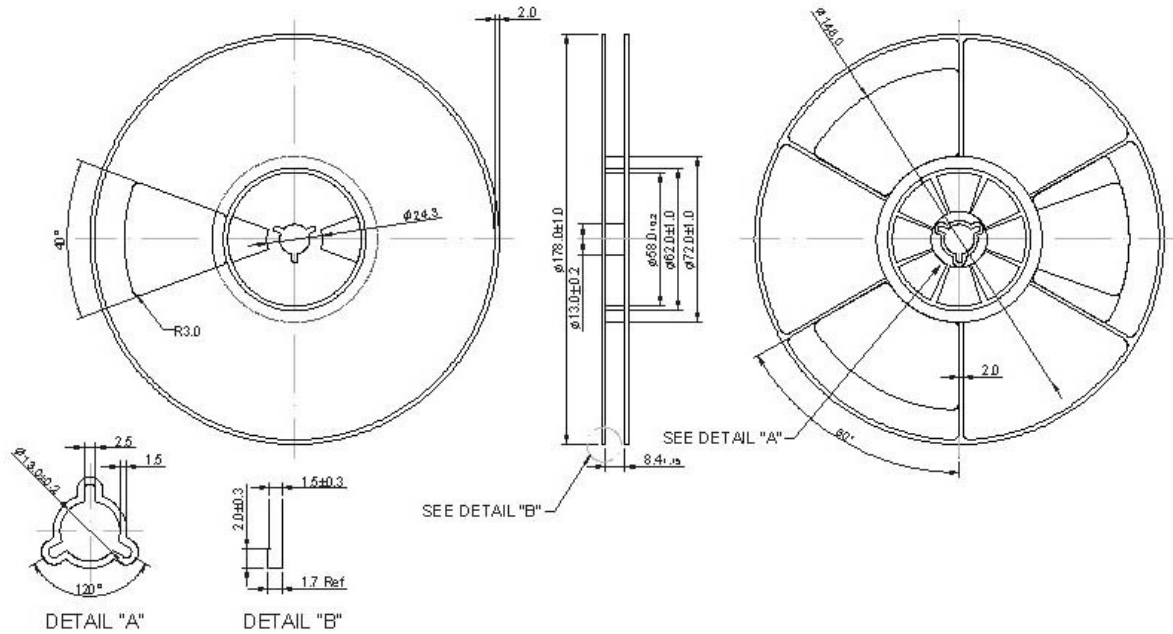
Smith Chart



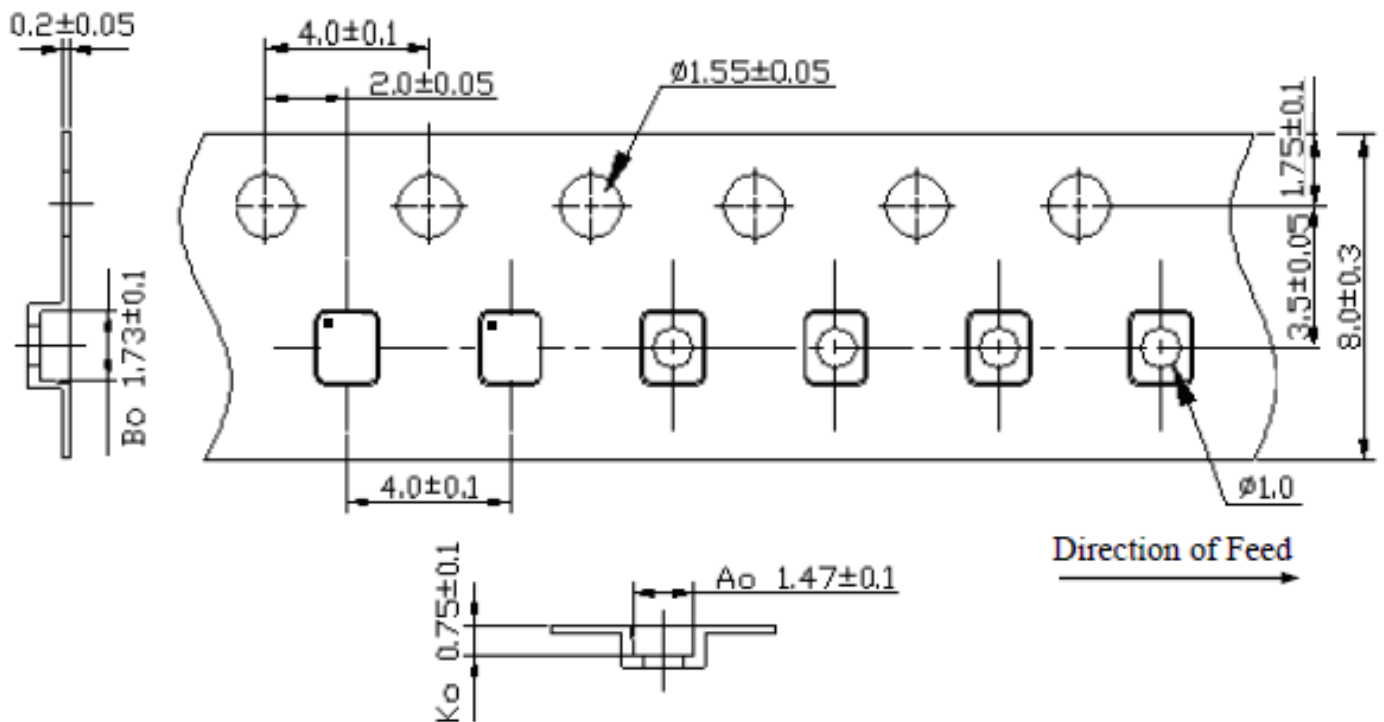
G. PACKING:

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.

