



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 Filter 2442 MHz SMD 1109(BW=79MHz)

TST Part No.: TA2530A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Anne Chen *Anne Chen*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019 . 05 . 22

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.

SAW Filter 2442MHz SMD1.1x0.9mm (79MHz BW)

MODEL NO.:TA2530A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level : 25dBm (2402.5~2481.5MHz) (Ta=+50deg C,5000h)
2. DC Voltage : 5V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +100°C
5. Moisture Sensitivity Level: Level 1
- 6 .ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \parallel 8.2nH \ \Omega$ (Single-ended)

Terminating load impedance : $Z_L = 50 \parallel 6.2nH \ \Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	2442		-
Insertion Loss (2402.5~2421.5MHz)	IL dB(*1)(*2)	-	1.1	1.8	CH1
Insertion Loss (2407.5~2471.5MHz)	IL dB(*1)(*2)		1.0	1.6	CH2 to 11
Insertion Loss (2457.5~2476.5MHz)	IL dB(*1)(*2)		1.1	1.7	CH12
Insertion Loss (2462.5~2481.5MHz)	IL dB(*1)(*2)		1.2	2.0	CH13
Insertion Loss (2402.5~2481.5MHz)	IL dB(*1)(*2)	-	1.2	1.7	+25°C
Amplitude Ripple (2402.5~2481.5MHz)	dB	-	0.8	2.6	Any 19 MHz
Input VSWR (2402.5~2481.5MHz)			1.3	2.0	
Output VSWR (2402.5~2481.5MHz)			1.2	2.0	
Attenuation (reference level from 0 dB)					

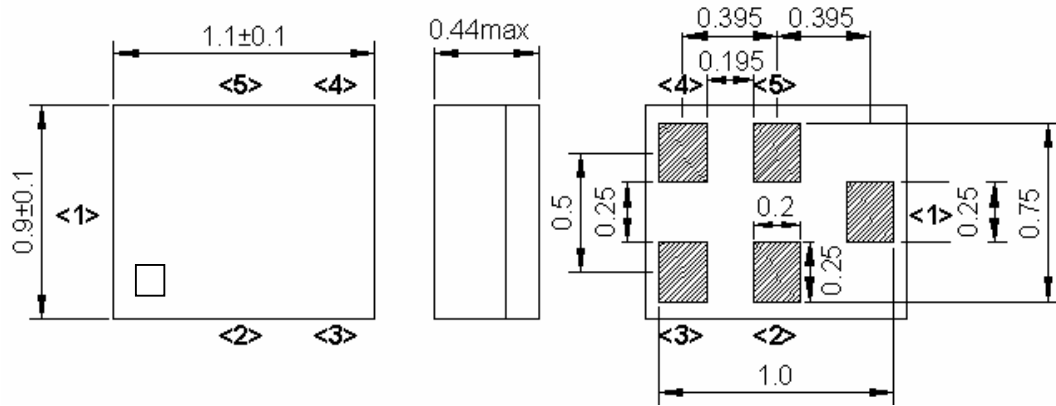
699 ~ 960 MHz	dB	33	37	-	-
1425 ~ 2170 MHz	dB	25	28	-	-
2300 ~ 2370 MHz	dB(*3)	28	37	-	
2370 ~ 2375 MHz	dB(*3)	10	35	-	
2375 ~ 2380 MHz	dB(*3)	5	22	-	
2500 ~ 2505 MHz	dB(*3)	3	22	-	-30 to+85°C-
	dB(*3)	12	22	-	+25°C
2505 ~ 2510 MHz	dB(*3)	9	35	-	-
2510 ~ 2570 MHz	dB(*3)	21	34	-	
2570 ~ 2690 MHz	dB	30	33	-	
2690 ~ 7500 MHz	dB	27	32	-	
4900 ~ 5805 MHz	dB	35	41	-	
7200 ~ 7500 MHz	dB	30	39	-	

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

(*2) Integrated Insertion Loss over 19MHz CH BW.

(*3) Integrated attenuation over 5MHz CH BW.

C.OUTLINE



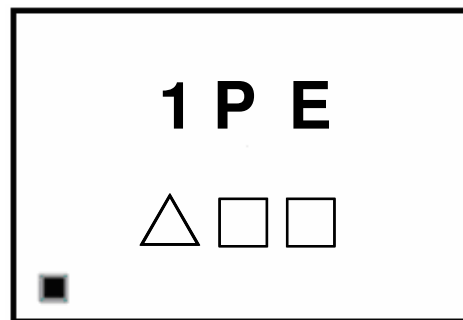
DRAWING

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 : 1 PE

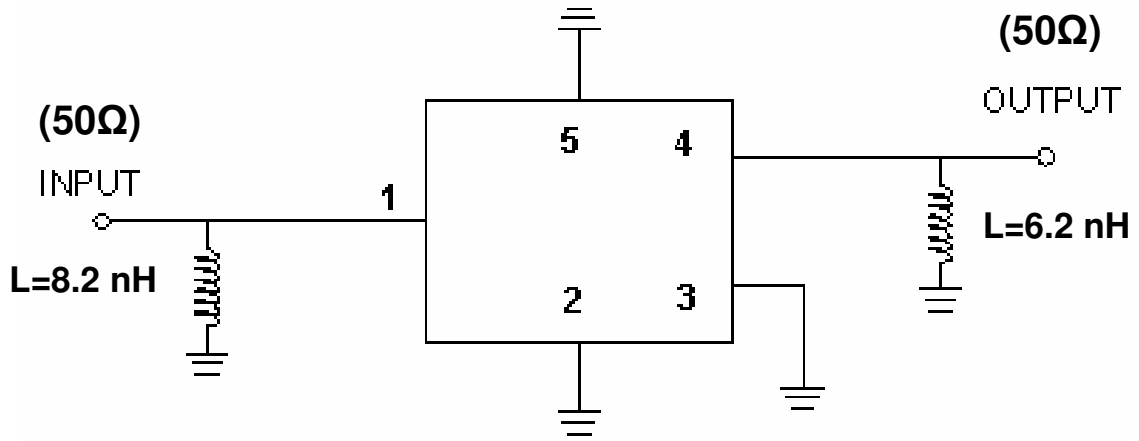
△ : Date Code

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

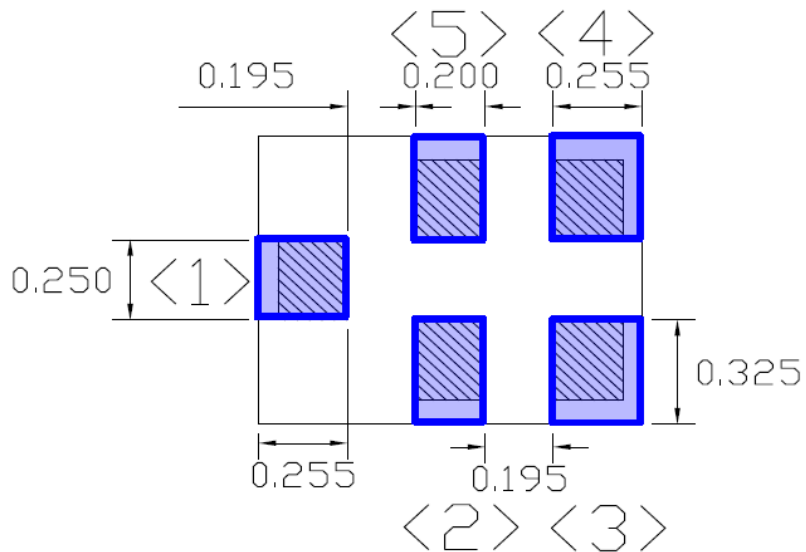
Product date Code (EIAJ)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017 / 2021	A	B	C	Ð	E	IF	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:

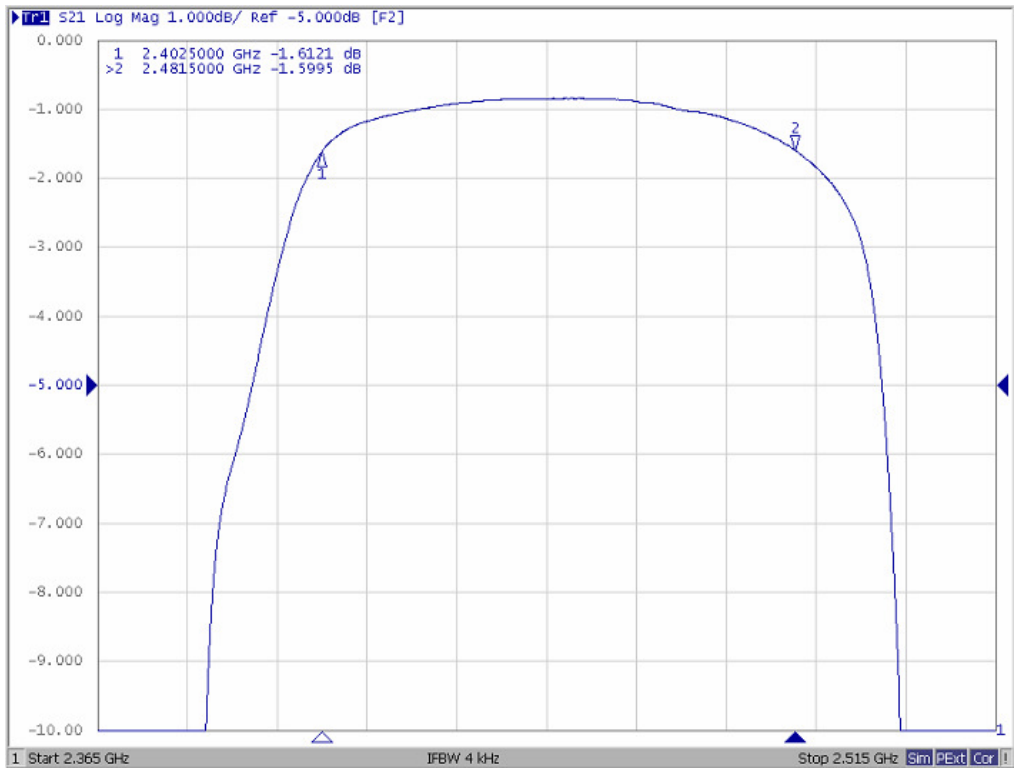
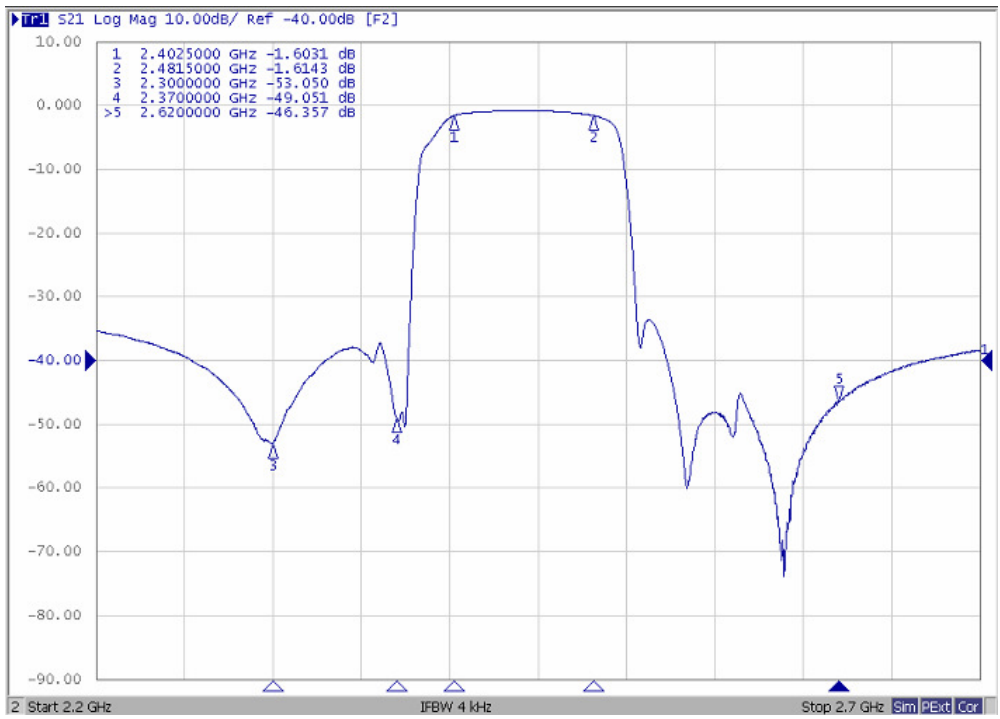


E.PCB Footprint :

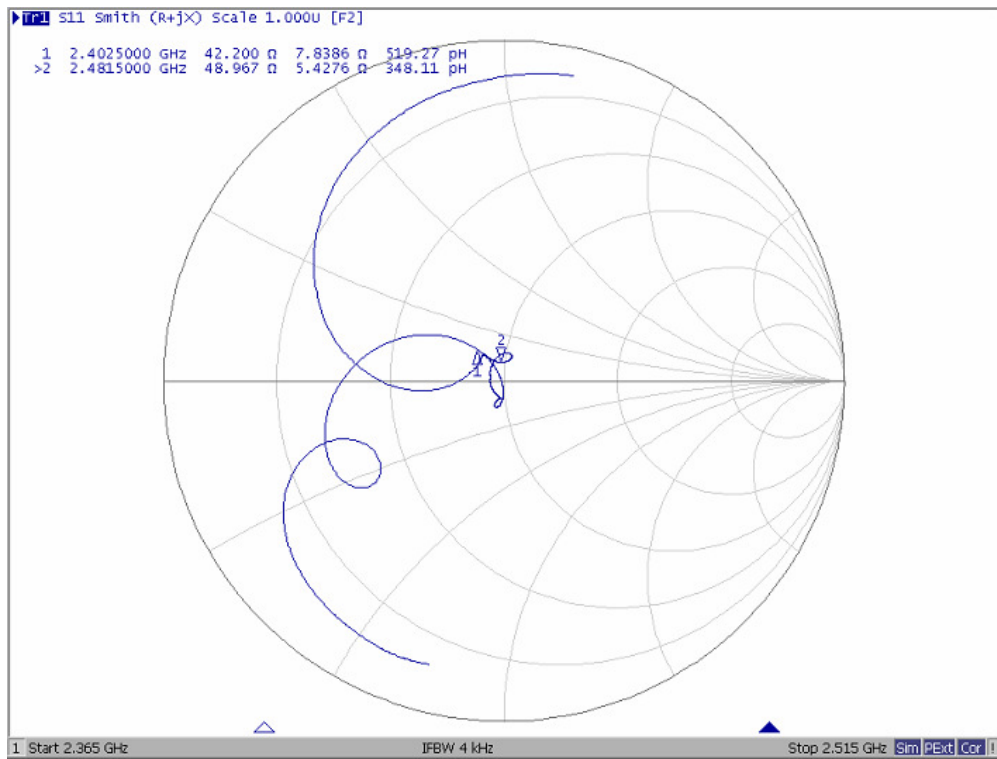
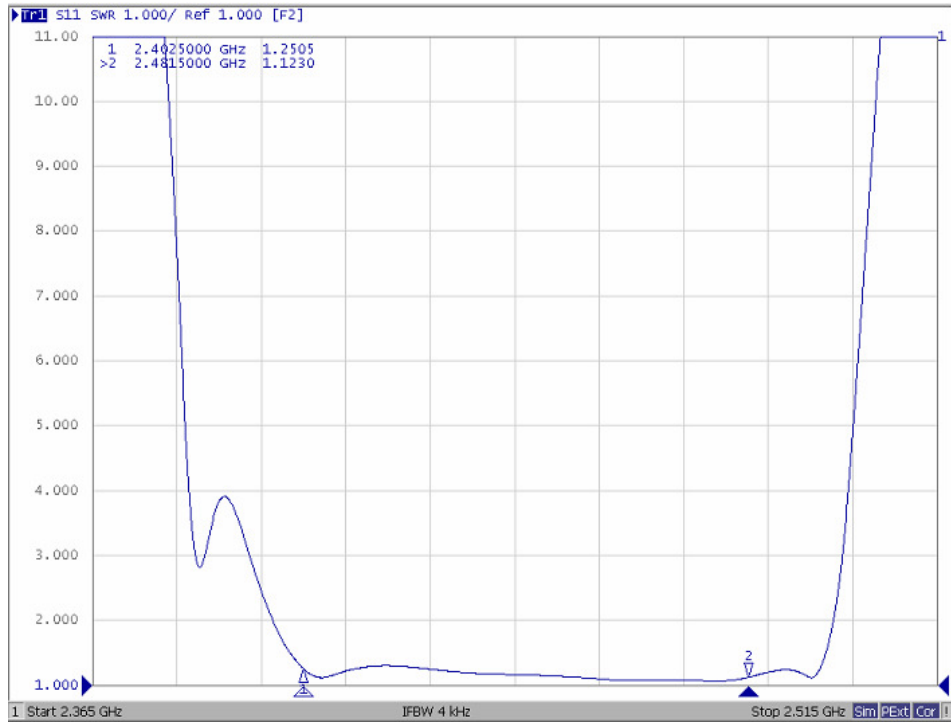


F.Frequency Characteristics

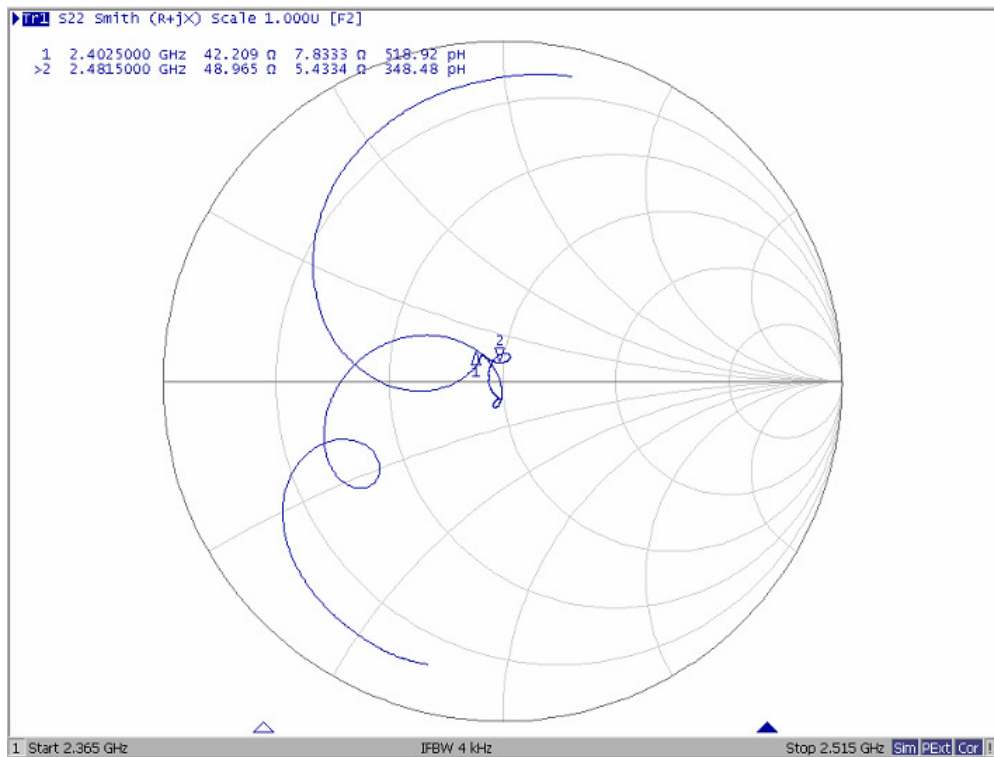
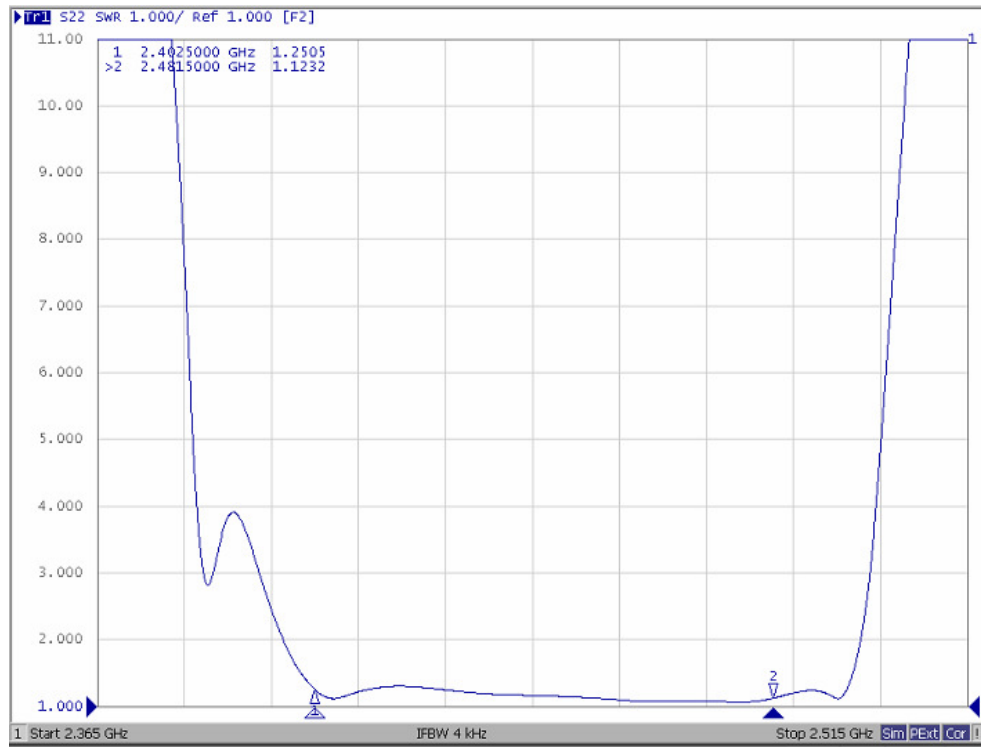
Passband



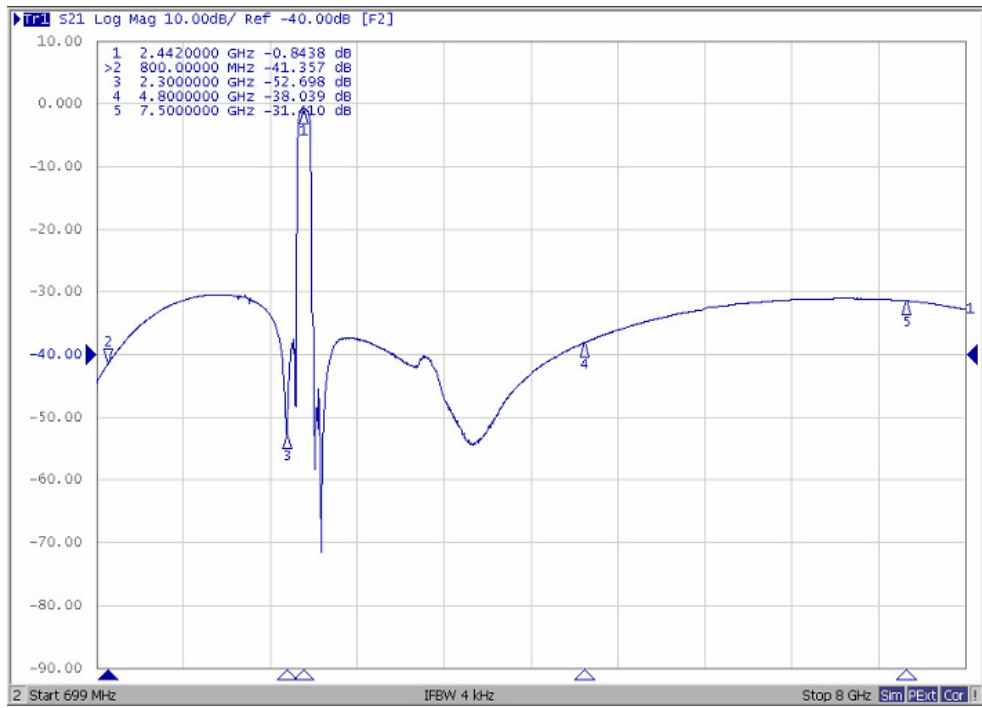
Input Port



Output Port



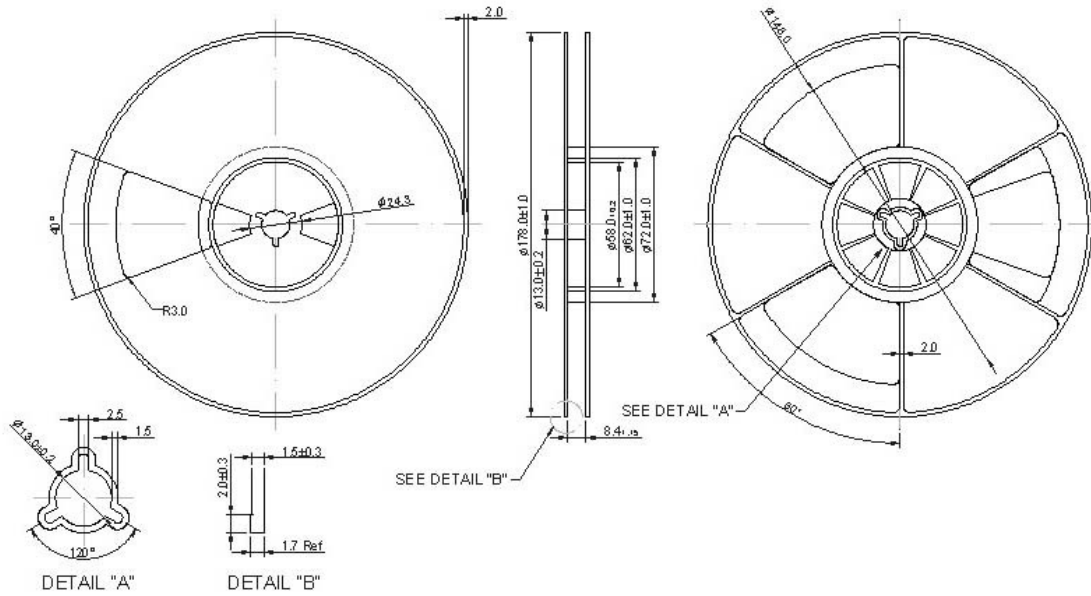
Wide



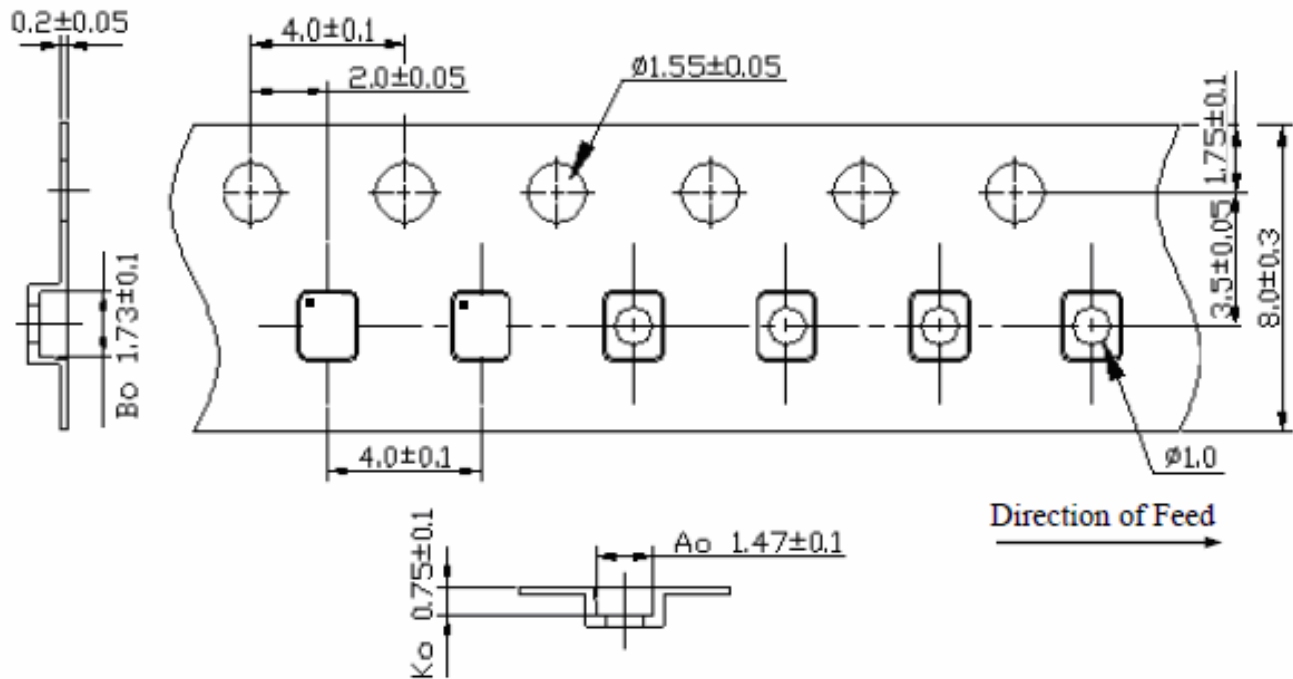
G. PACKING:

1. REEL DIMENSION

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

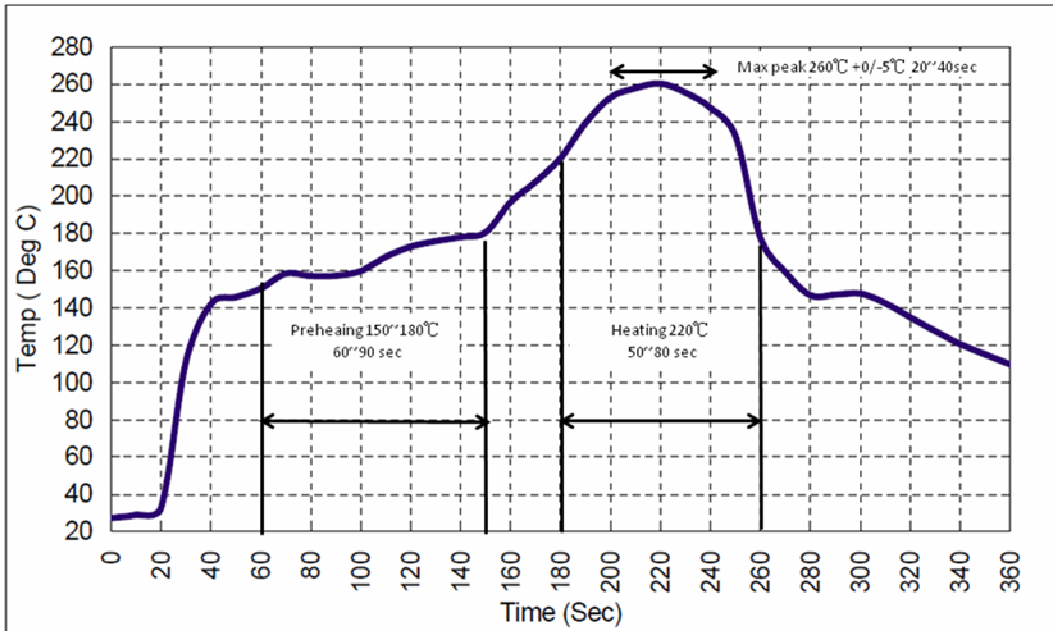


2. TAPE DIMENSION



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.



单击下面可查看定价，库存，交付和生命周期等信息

[>>TAI-SAW\(台湾嘉硕\)](#)