



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet


Product Description: SAW Filter 162MHz SMD 5.0X5.0 mm(BW=6MHz)

TST Part No.: TA2824AA5115

Customer Part No.: _____

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

Checked by: _____ Anne Chen 

Approved by: _____ Kazuma Lee 

Date: _____ 05 . 24 . 2022

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 Filter 162 MHz

MODEL NO.: TA2824AA5115

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS: (Operating temperature : 25°C)

Terminating source impedance (single ended) : $Z_s = 50 \Omega$

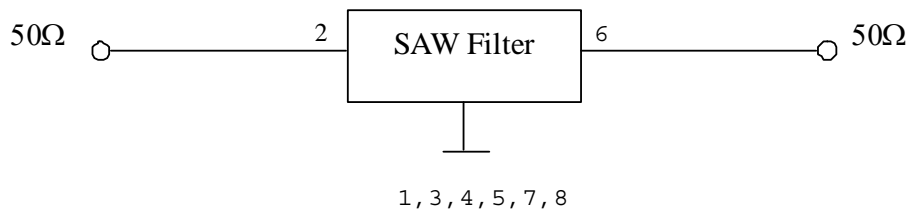
Terminating load impedance (single ended) : $Z_L = 50 \Omega$

Item		Specification		
		Min.	Typ.	Max.
Center frequency	F_c	MHz	162	
Bandwidth	BW_{-3dB}	MHz	6	8
Insertion Loss at F _c	IL	dB	1.6	2.8
Amplitude Ripple (159~165MHz)		dB	2.2	4.7
VSWR (159~165MHz)			2.8	3.5
Attenuation (reference level from 0 dB)				
FC-100 ~ FC-40.8 MHz		dB	40	58
FC+40.8 ~ FC+100 MHz		dB	40	46
Temperature Coefficient of Frequency		ppm/°C	-81	

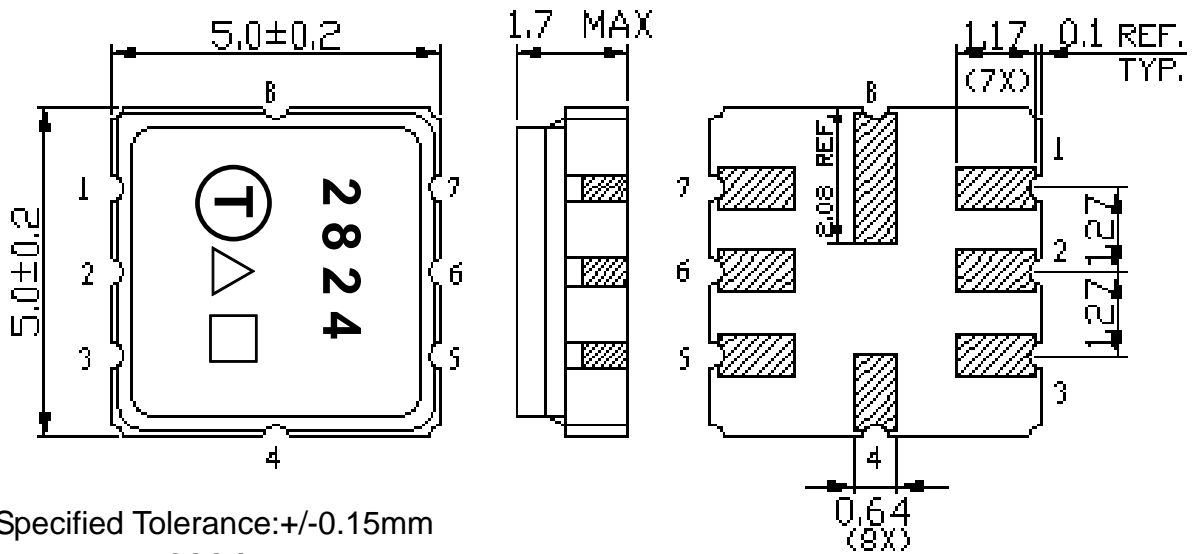
Note: IL_{min} is the minimum of the pass band attenuation. The center frequency F_c is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL_{min} .

C. MEASUREMENT CIRCUIT :

HP Network analyzer



D. OUTLINE DRAWING:



Not Specified Tolerance: ± 0.15 mm

Marking name : **2824**

△ : Year Code

□ : Date Code (Follow the table from planner each year)

Product Year Code (4-year cycle)

Year	2021 2025	2022 2026	2023 2027	2024 2028
Year Code	A	a	<u>A</u>	<u>a</u>

Pin configuration

#2 Input

#6 Output

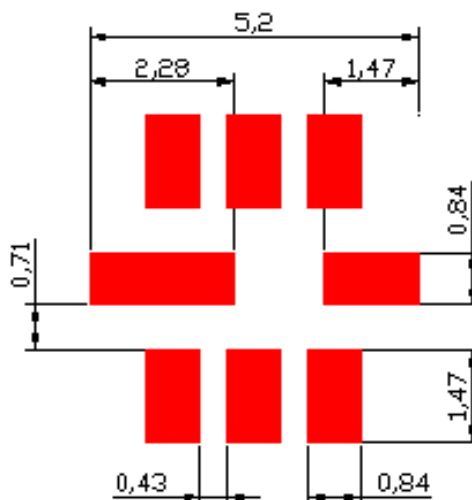
#1,3,4,5,7,8 ground

Unit : mm

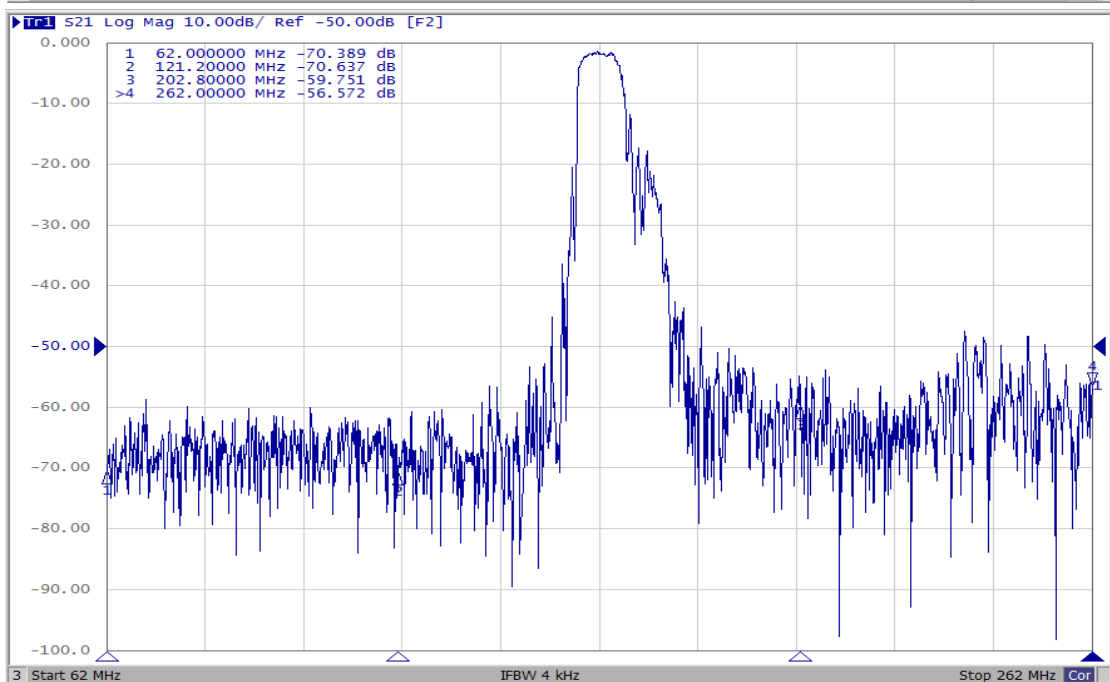
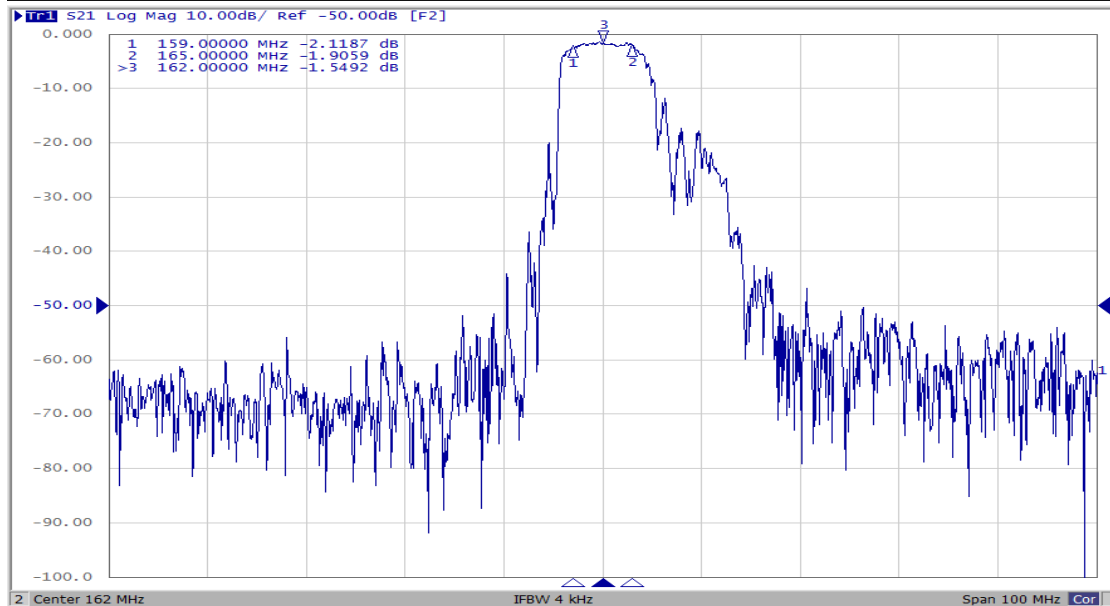
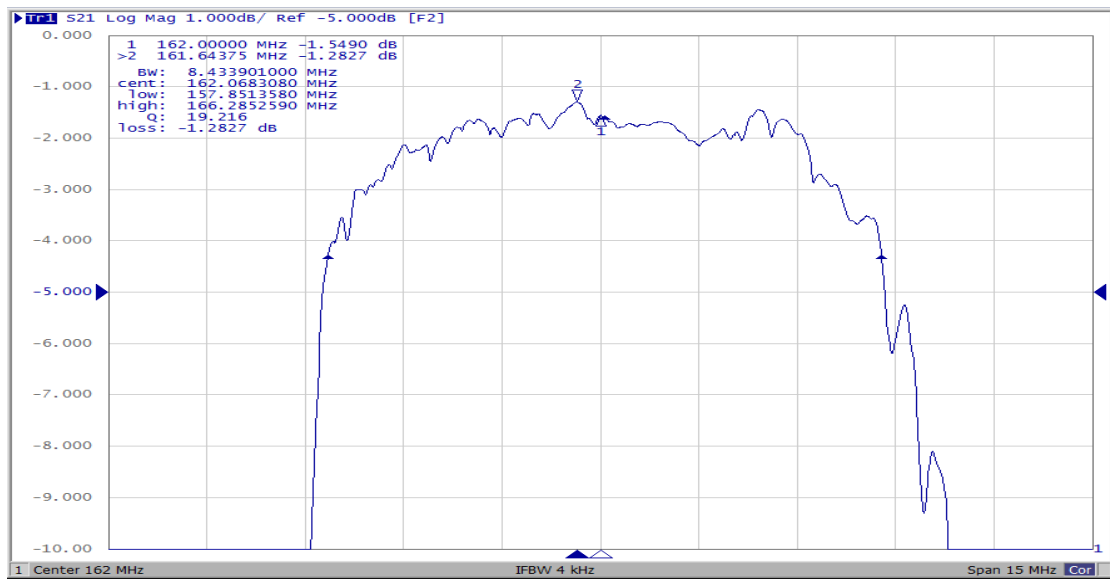
Date Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

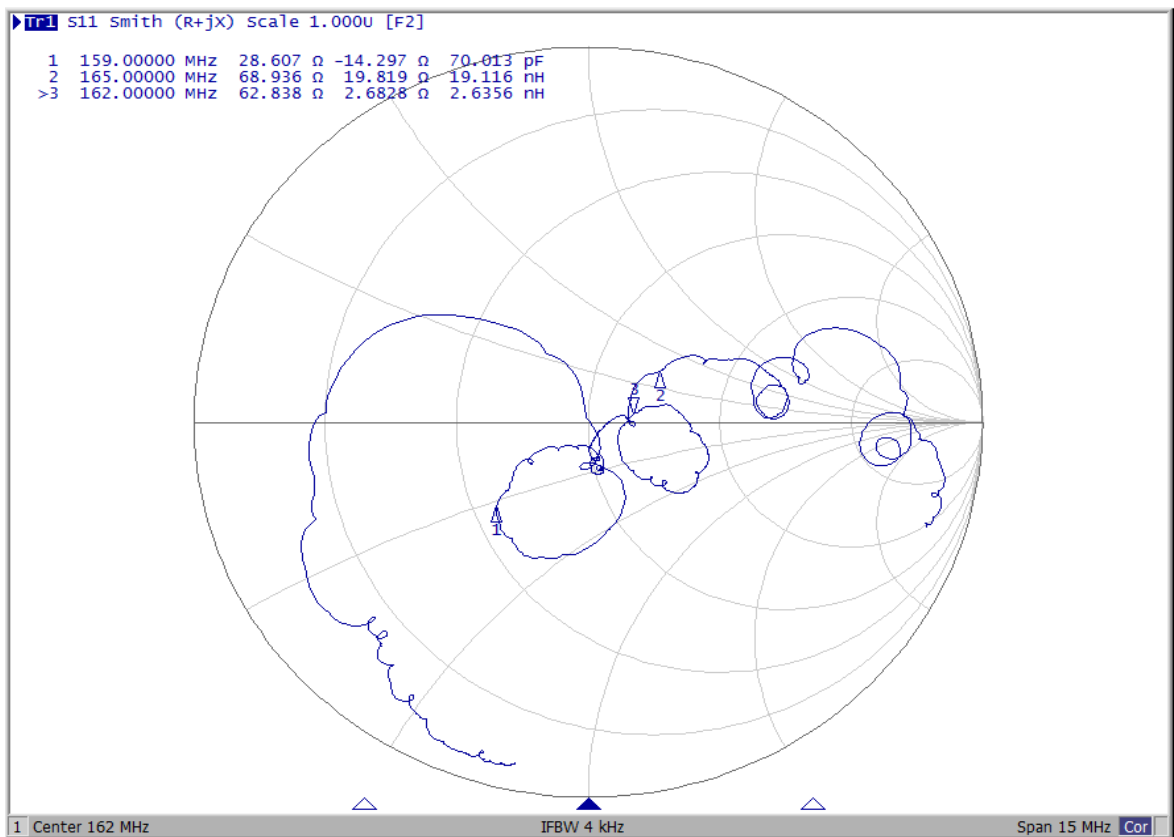
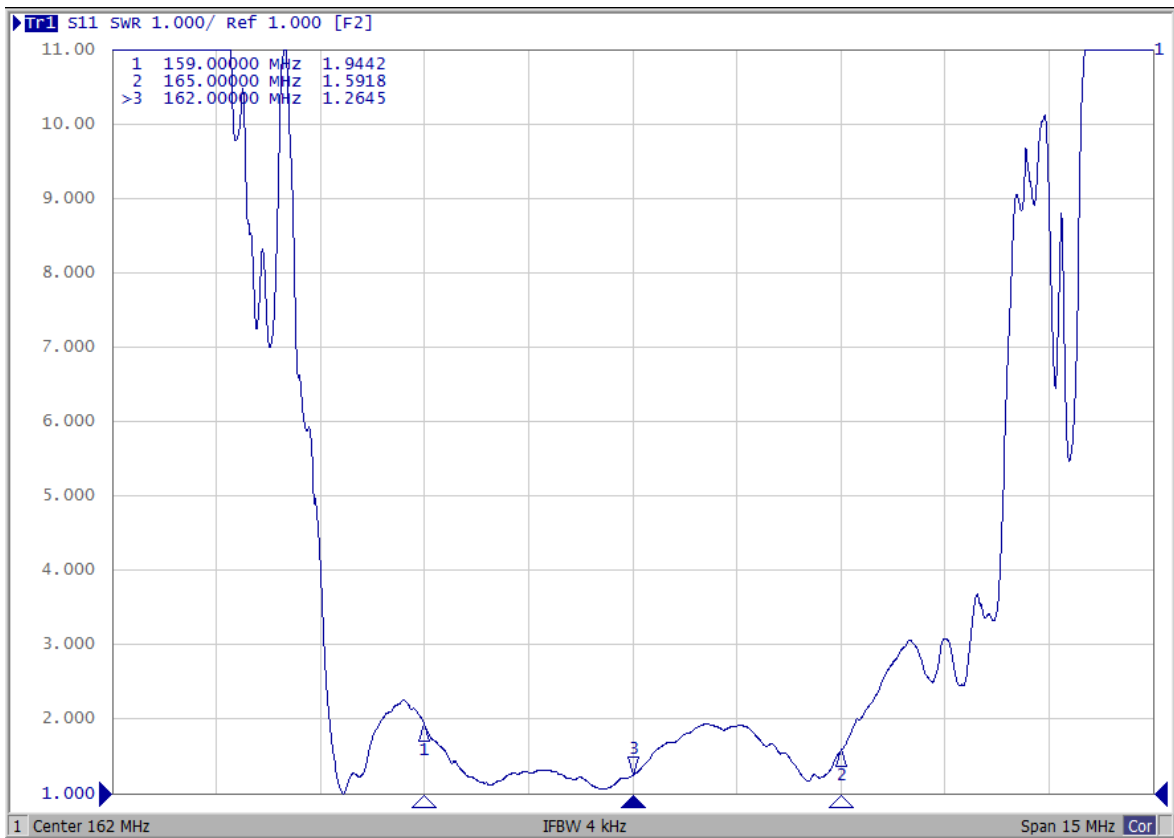
E. PCB Footprint :



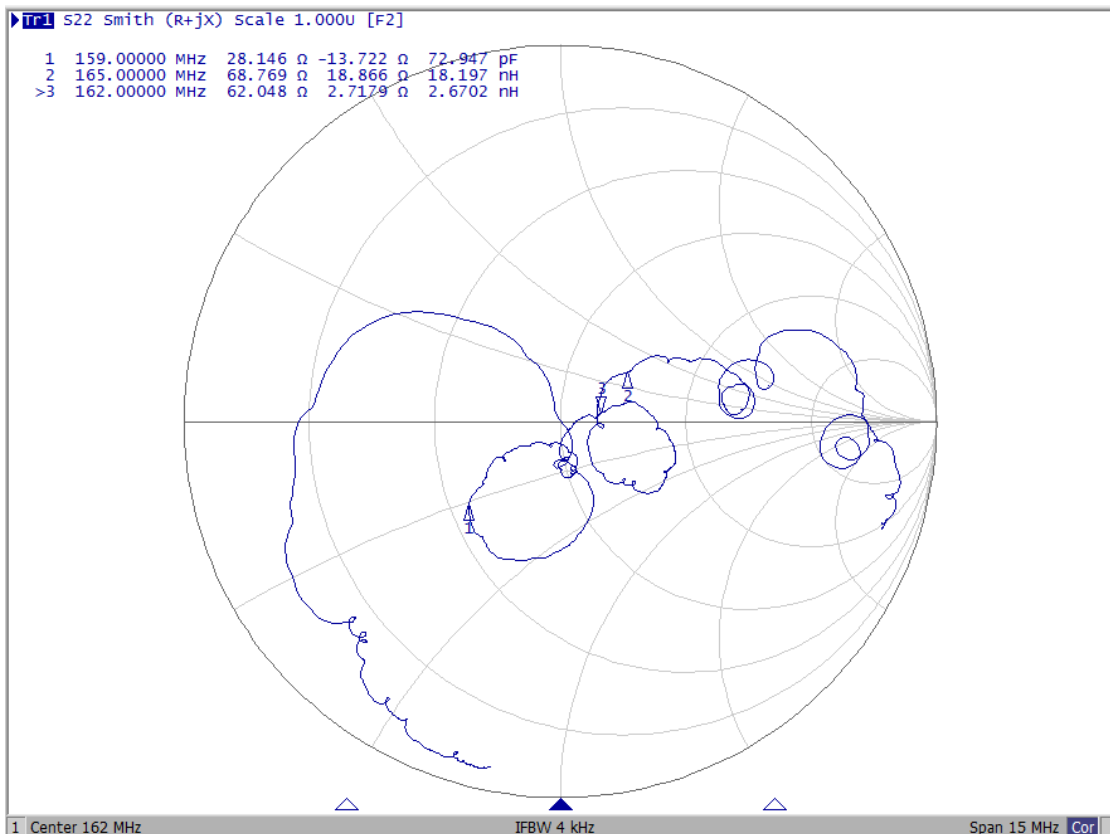
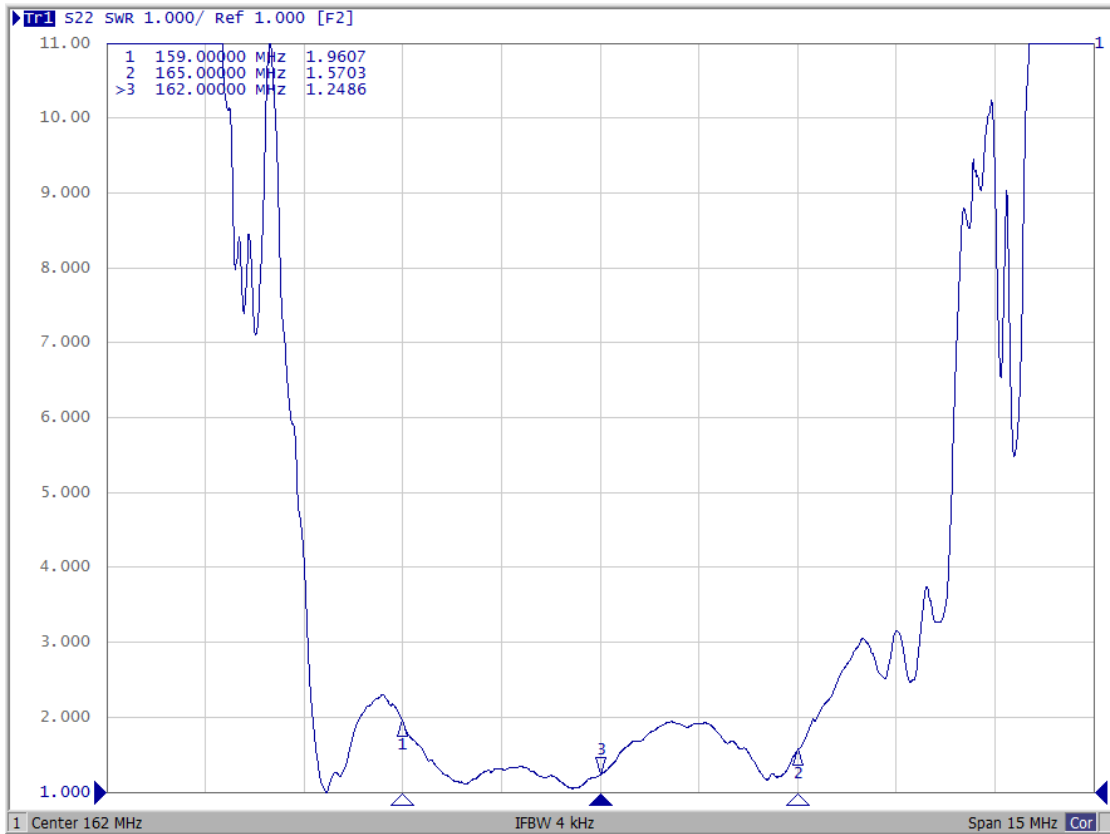
F. FREQUENCY CHARACTERISTICS: S21 Pass-band response:



S11 VSWR



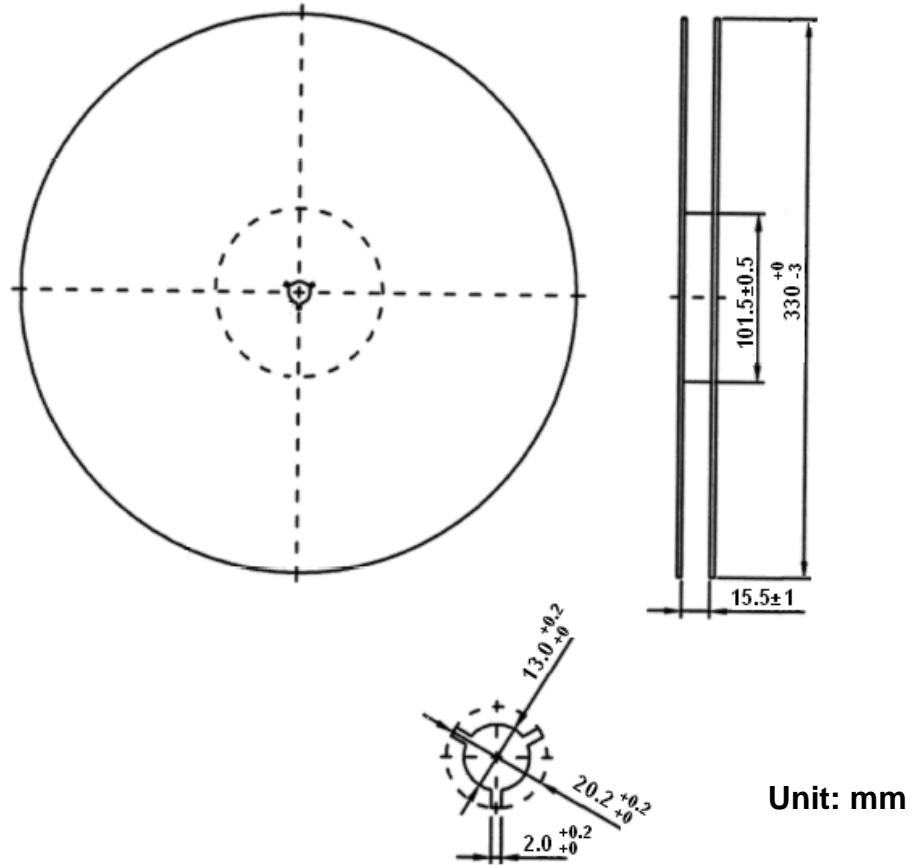
S22 VSWR



G. PACKING:

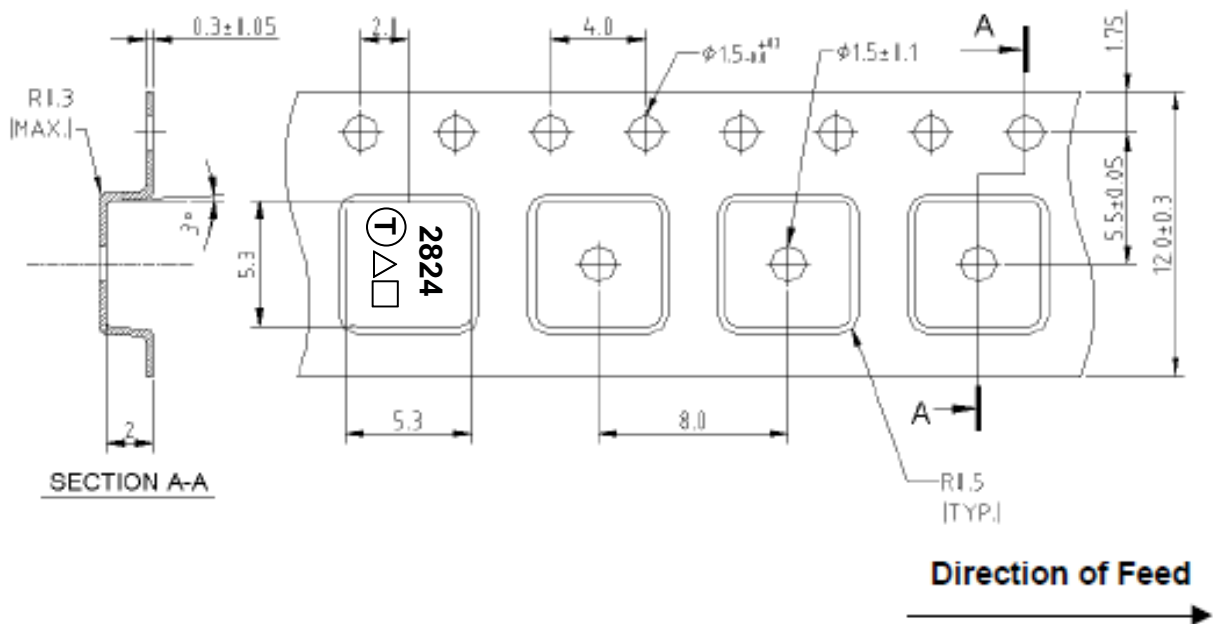
1. REEL DIMENSION

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



Unit: mm

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.

