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 1400 MHz SMD 3.0x3.0 mm (BW=53 MHz)

TST Part No.: TA1444B

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang 張閔智

Approved by: Bob Chau

Date: 2013/04/15

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 1400 MHz

MODEL NO.: TA1444B REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m

2.DC voltage: 3 V

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

4.Storage Temperature: -50°C to +125°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

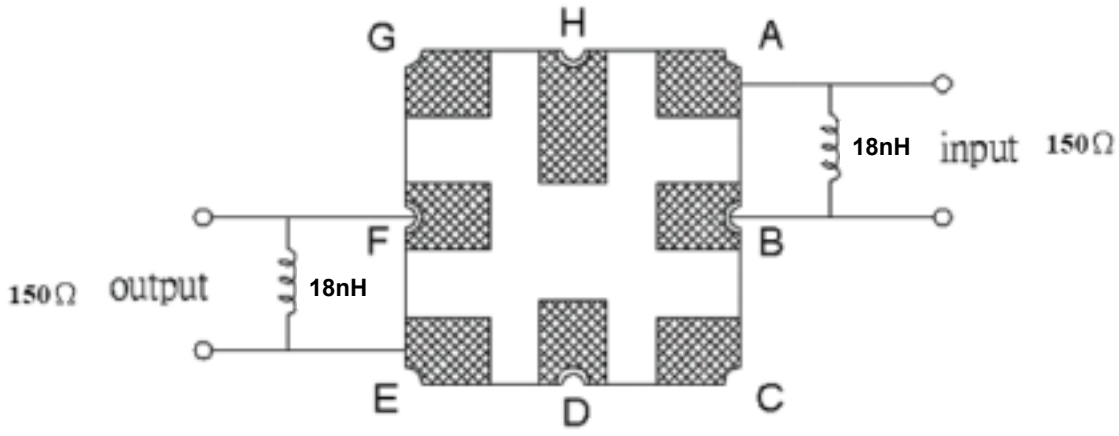
B. CHARACTERISTICS:

Terminating source impedance (differential): Zs=150Ω // 18nH

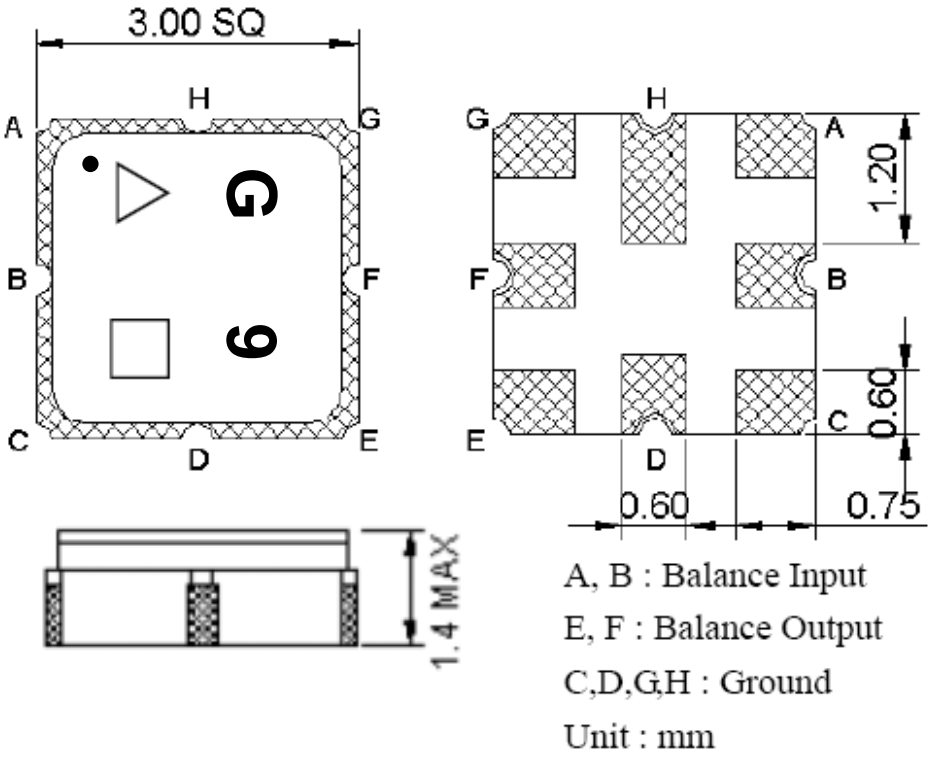
Terminating load impedance (differential): ZL=150Ω // 18nH

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1400	-
Insertion loss (1372~1425 MHz) **IL**	dB	-	3.9	6
Amplitude ripple (1372~1425 MHz)	dB	-	1.7	3.8
VSWR (1372~1425 MHz)	-	-	2.0	2.5
Group delay ripple (1372~1425 MHz)	ns	-	17	35
Attenuation (reference from 0dB)				
10 ~ 860 MHz	dB	55	65	-
860 ~ 1100 MHz	dB	46	58	-
1100 ~ 1308.1 MHz	dB	40	55	-
1492.2 ~ 1608.4 MHz	dB	33	47	-
1608.4 ~ 2000 MHz	dB	40	54	-
2000 ~ 2250 MHz	dB	36	58	-
2250 ~ 6000 MHz	dB	15	20	-
Temperature Coefficient of Frequency	Ppm/℃	-	-36	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



A, B : Balance Input

E, F : Balance Output

C,D,G,H : Ground

Unit : mm

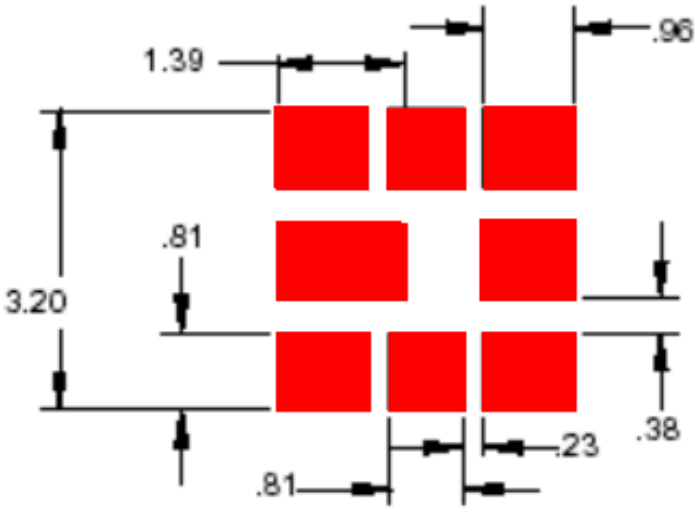
△: Year Code(2011->1, 2012->2, …, 2019->9, 2020->0)

☐: Date Code

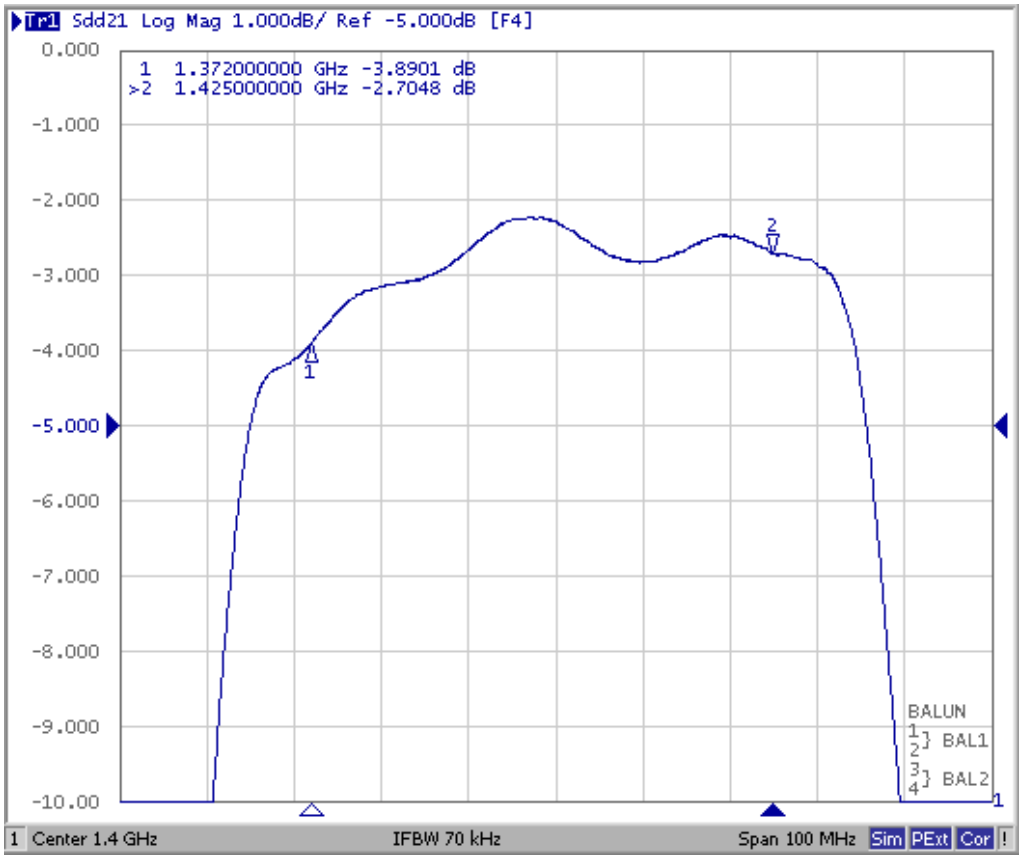
Date Code Table:

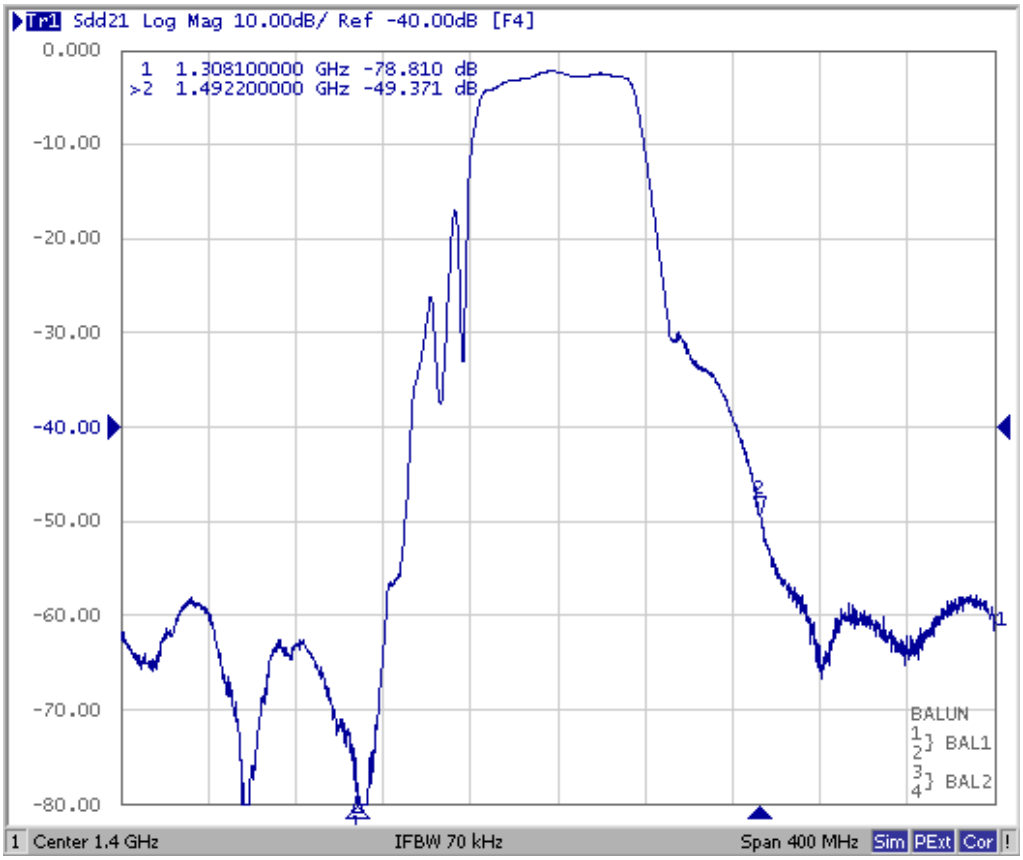
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

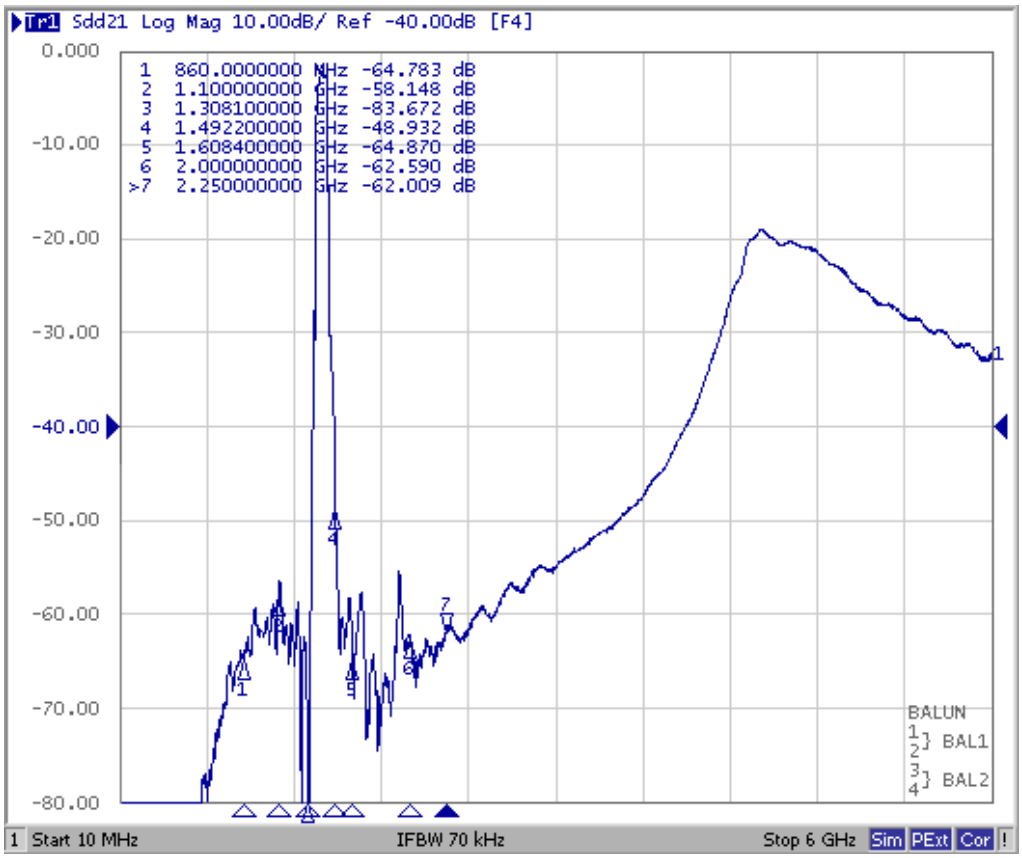
E. PCB FOOTPRINT:



F. Frequency Characteristics:

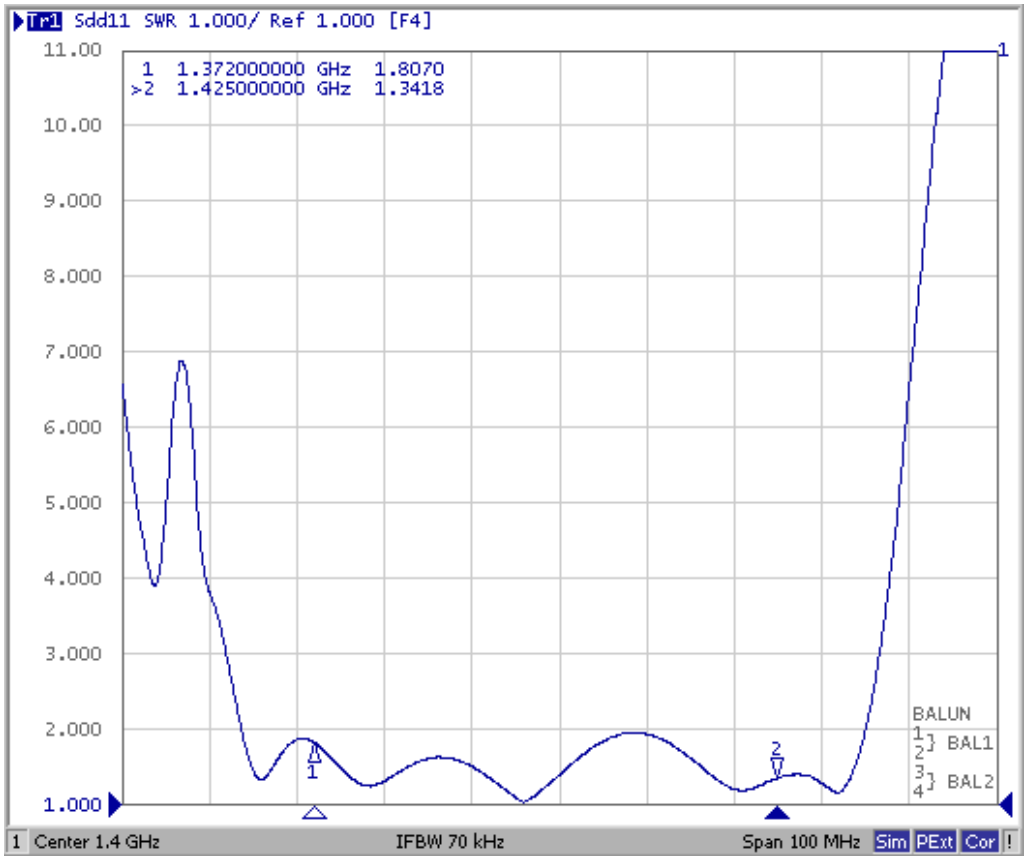



Tr1 Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4]
1 1.308100000 GHz -78.810 dB
>2 1.492200000 GHz -49.371 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
BALUN
1 2 BAL1
3 4 BAL2
1 Center 1.4 GHz
IFBW 70 kHz
Span 400 MHz
Sim PExt Cor

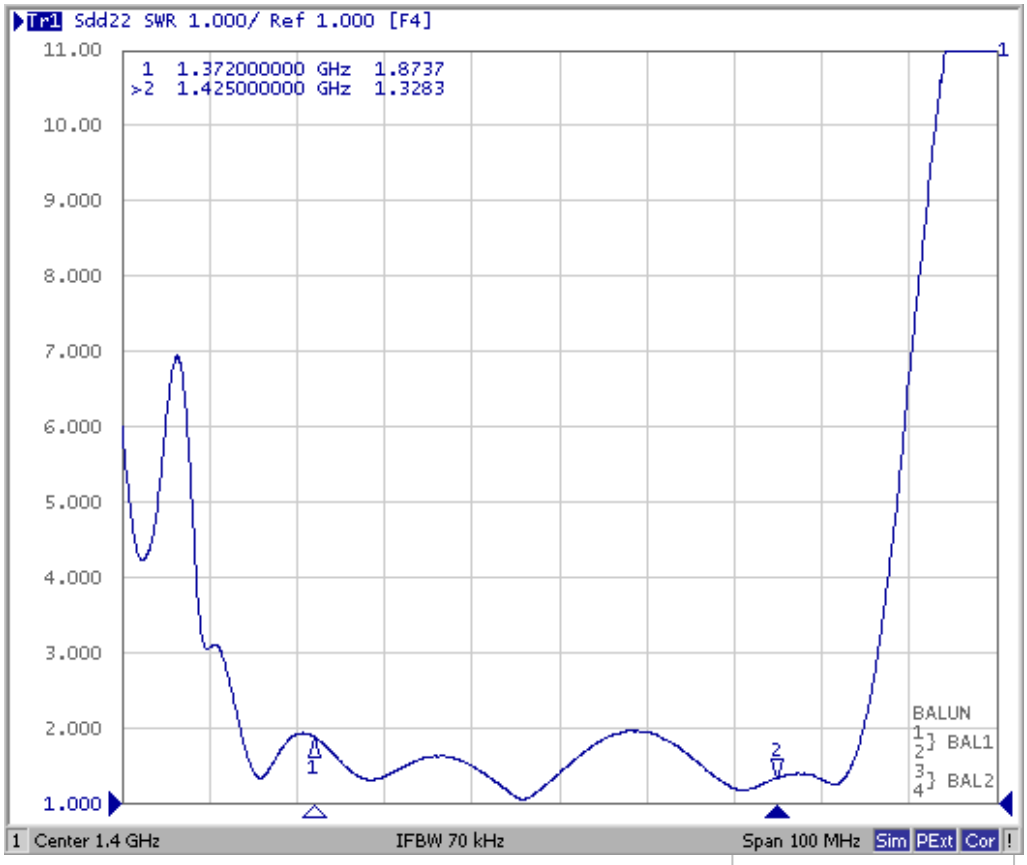

Tr1 Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4]
1 860.0000000 MHz -64.783 dB
2 1.100000000 GHz -58.148 dB
3 1.308100000 GHz -83.672 dB
4 1.492200000 GHz -48.932 dB
5 1.608400000 GHz -64.870 dB
6 2.000000000 GHz -62.590 dB
>7 2.250000000 GHz -62.009 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
BALUN
1 2 BAL1
3 4 BAL2
1 Start 10 MHz
IFBW 70 kHz
Stop 6 GHz
Sim PExt Cor

Reflection Functions:

S11

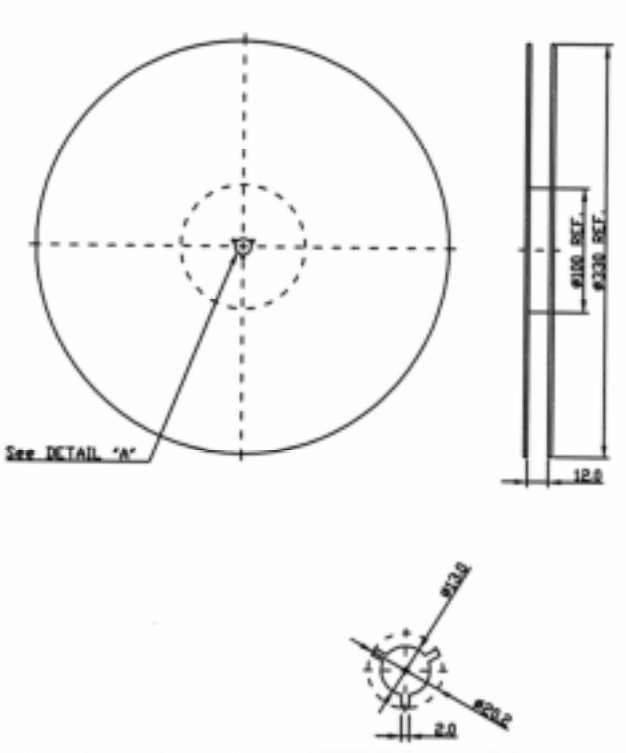


S22

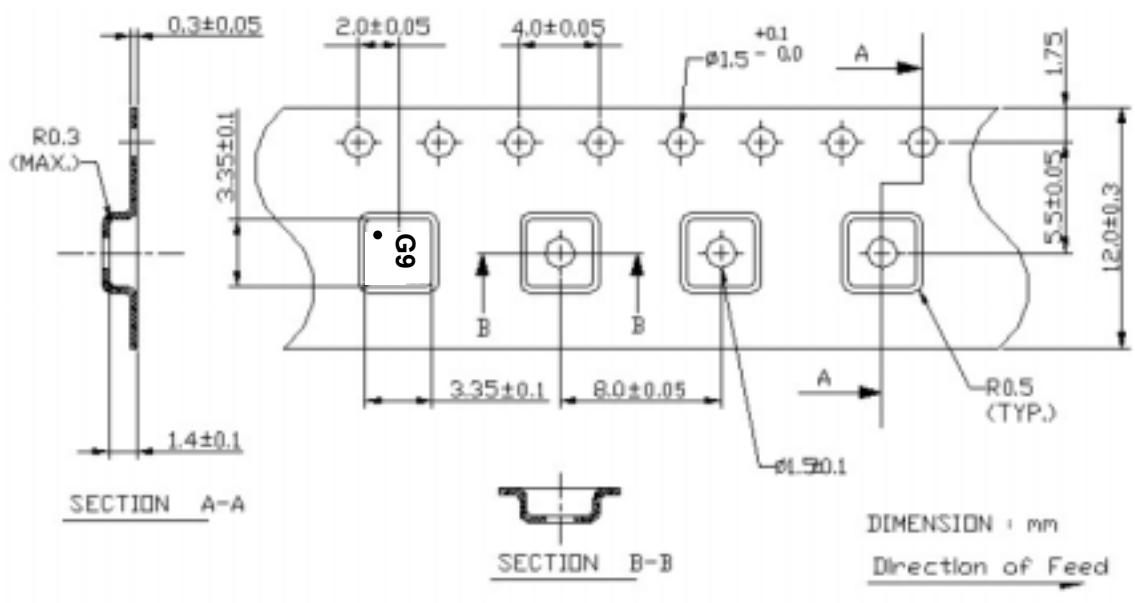


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE: