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 1516 MHz SMD 3.0x3.0 mm (BW=40 MHz)

TST Part No.: TA1445A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ David Chang 張閔智 _____

Approved by:_____ Francis Chen  _____

Date:_____ 2012/02/06 _____

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 1516 MHz

MODEL NO.: TA1445A 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)

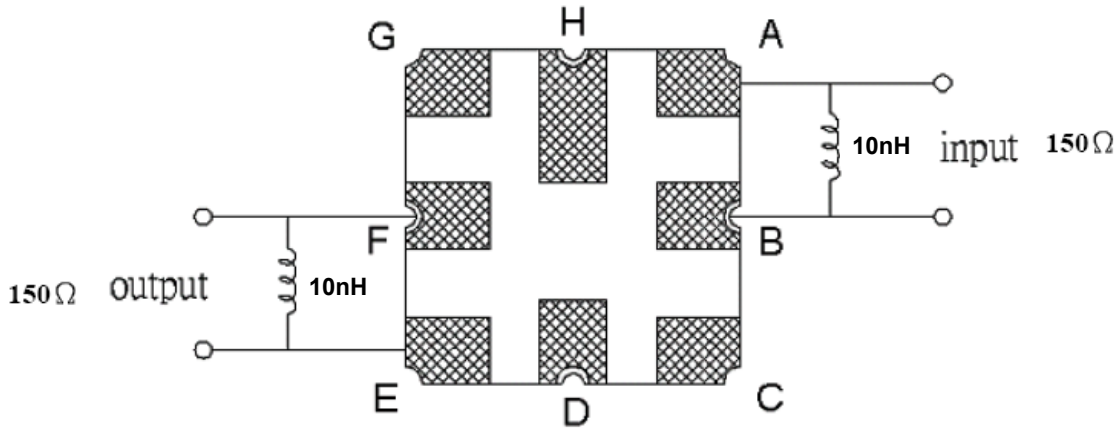
B. CHARACTERISTICS:

Terminating source impedance (differential): Zs=150Ω // 10nH

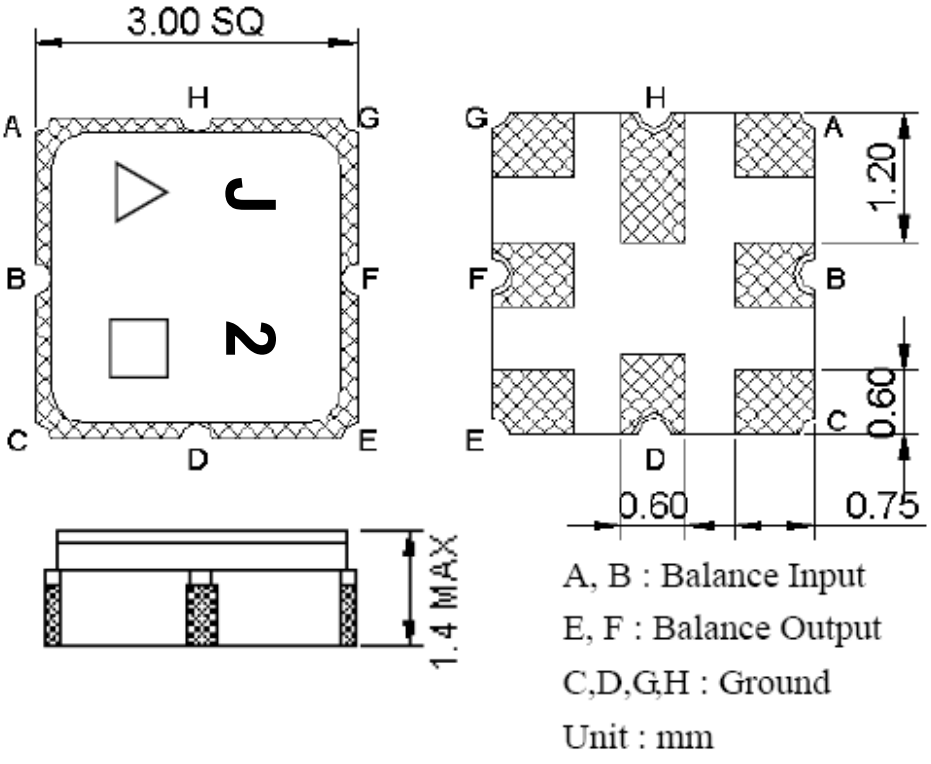
Terminating load impedance (differential): ZL=150Ω // 10nH

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1516	-
Insertion loss (1496~1536 MHz) **IL**	dB	-	3.3	5
Amplitude ripple (1496~1536 MHz)	dB	-	0.6	2
VSWR (1496~1536 MHz)	-	-	1.8	2.5
Group delay ripple (1496~1536 MHz)	ns	-	9	25
Attenuation (reference from 0dB)				
10 ~ 860 MHz	dB	55	70	-
860 ~ 1100 MHz	dB	46	70	-
1100 ~ 1423.9 MHz	dB	40	56	-
1608.4 ~ 1724.6 MHz	dB	33	39	-
1724.6 ~ 2000 MHz	dB	40	54	-
2000 ~ 2250 MHz	dB	36	52	-
2250 ~ 6000 MHz	dB	15	20	-
Temperature Coefficient of Frequency	Ppm/℃	-	-36	-

C. MEASUREMENT CIRCUIT:



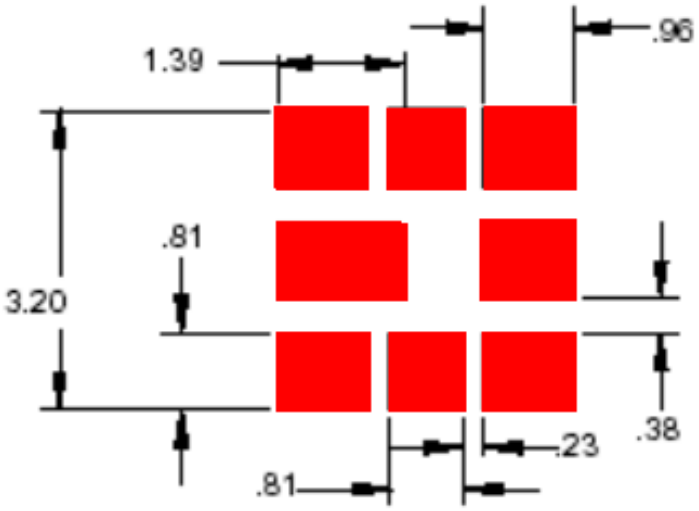
D. OUTLINE DRAWING:



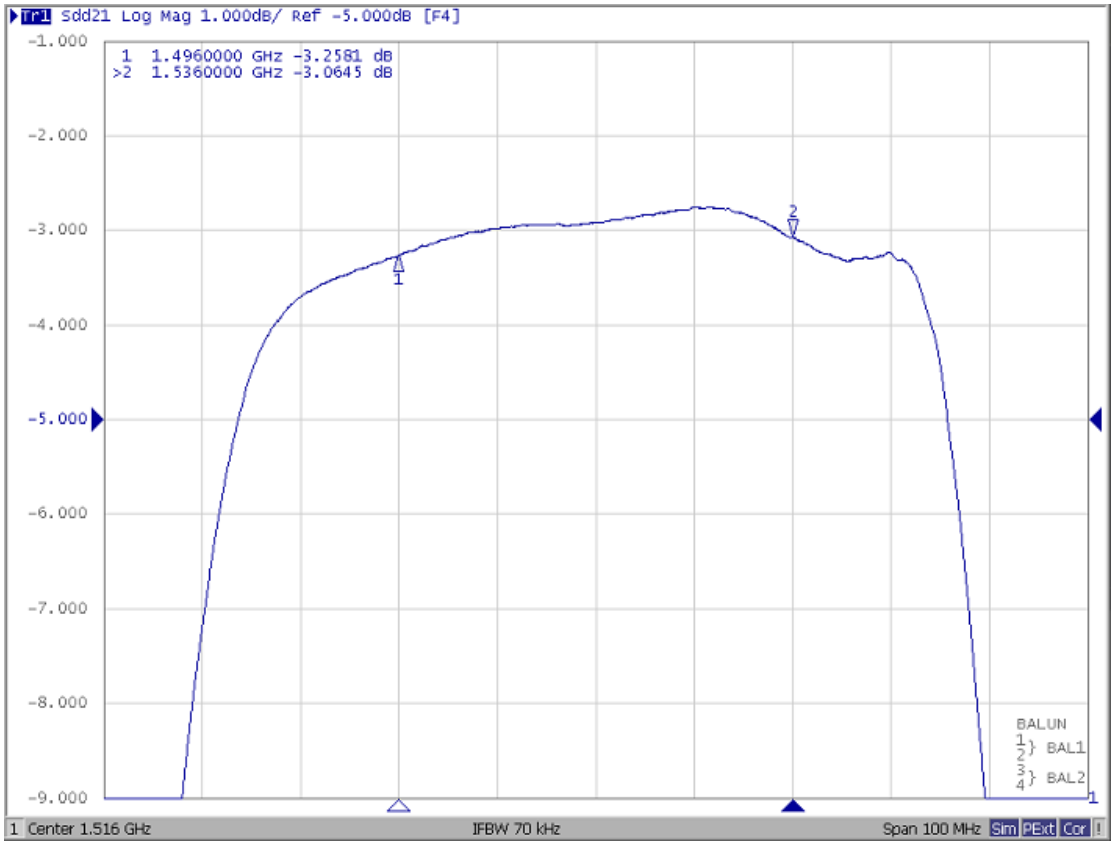
A, B : Balance Input
E, F : Balance Output
C,D,G,H : Ground
Unit : mm

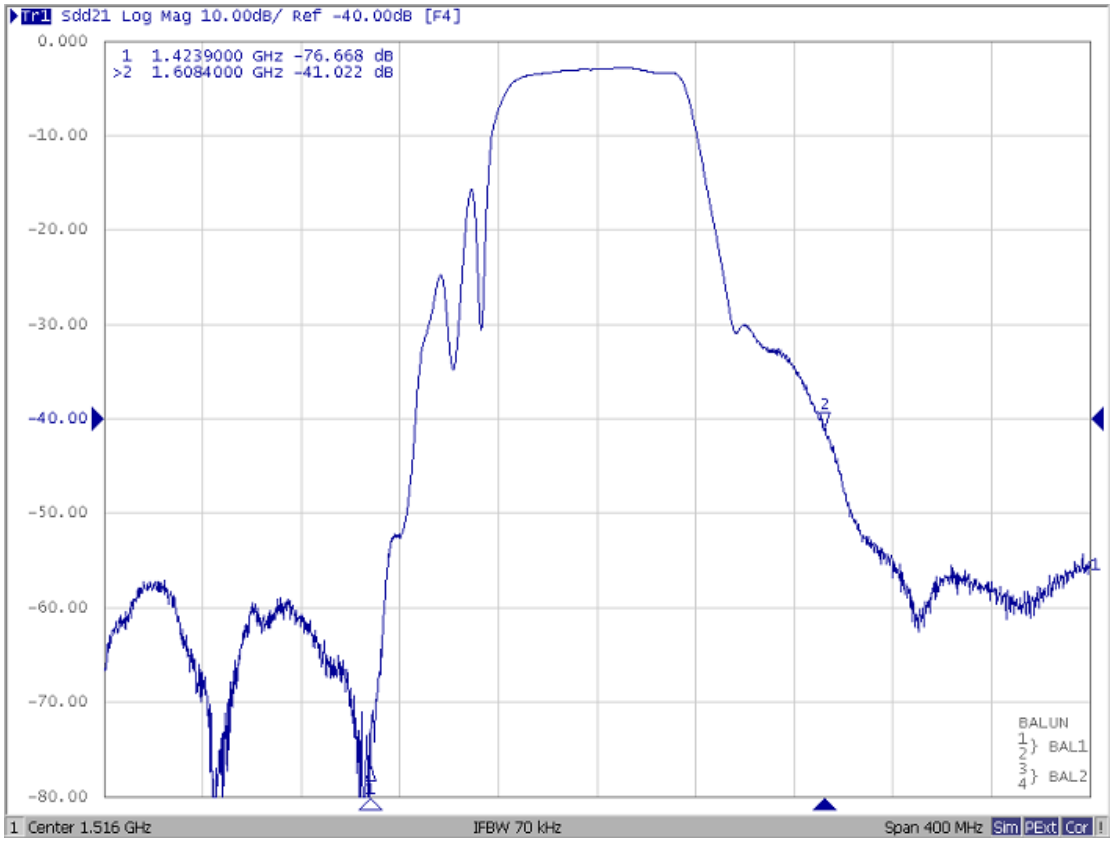
△: Year Code(2011->1,…,2020->0)
□: Date Code(W01->A, W02->B,…, W27->a, W52->z)

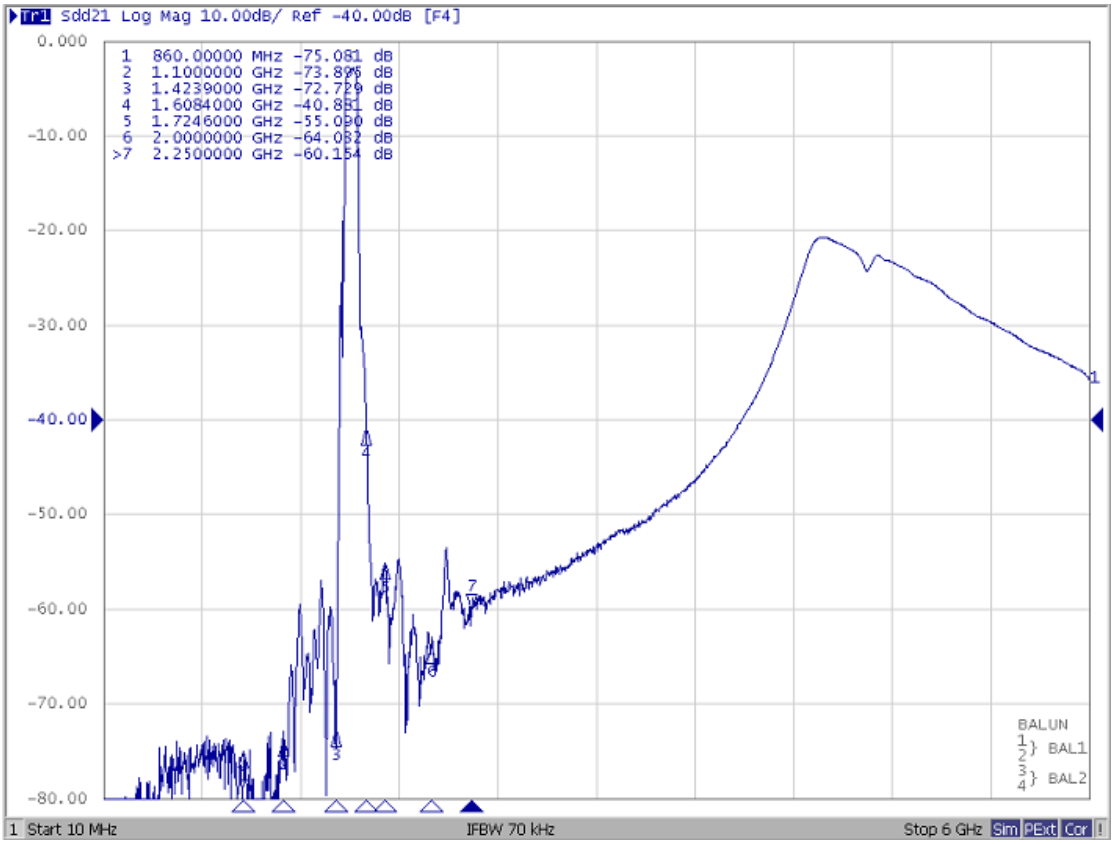
E. PCB FOOTPRINT:



F. Frequency Characteristics:

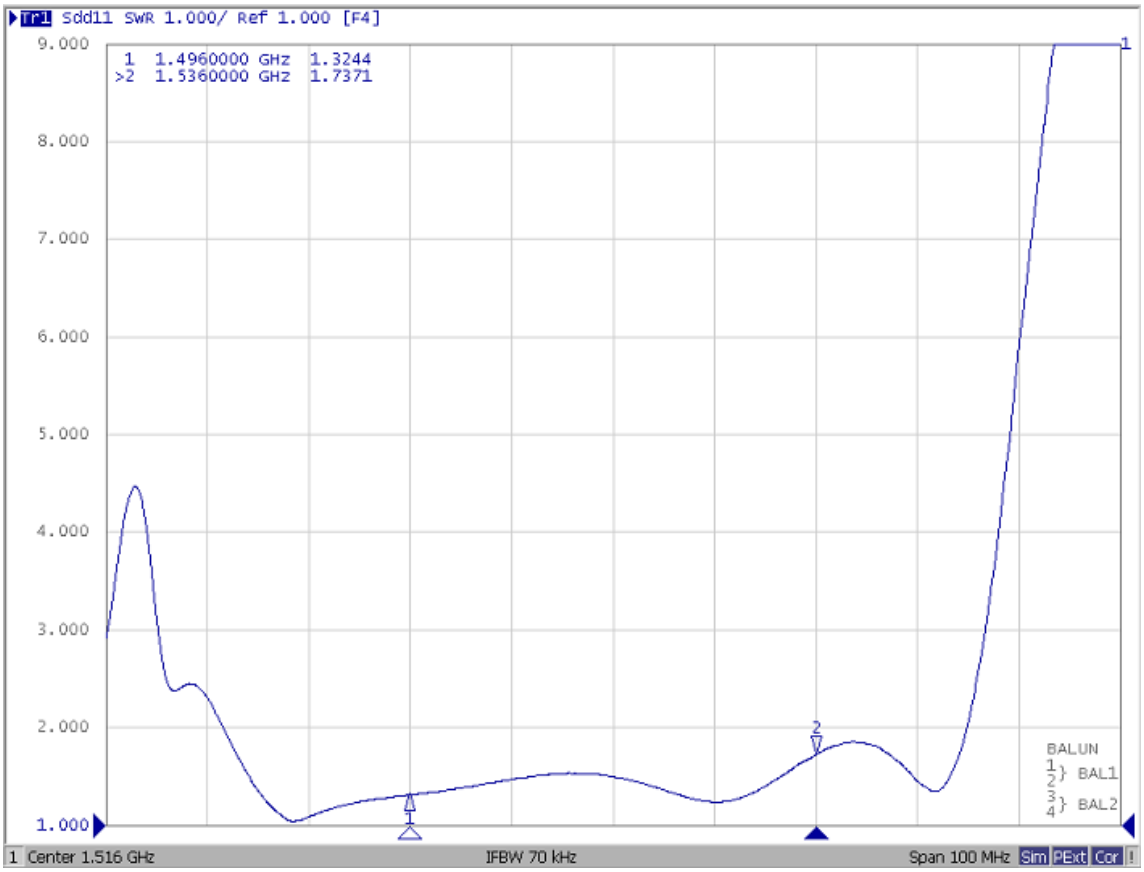



Tr1 Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4]
1 1.4239000 GHz -76.668 dB
>2 1.6084000 GHz -41.022 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
BALUN
1 2 BAL1
3 4 BAL2
1 Center 1.516 GHz
IFBW 70 kHz
Span 400 MHz
Sim PExt Cor

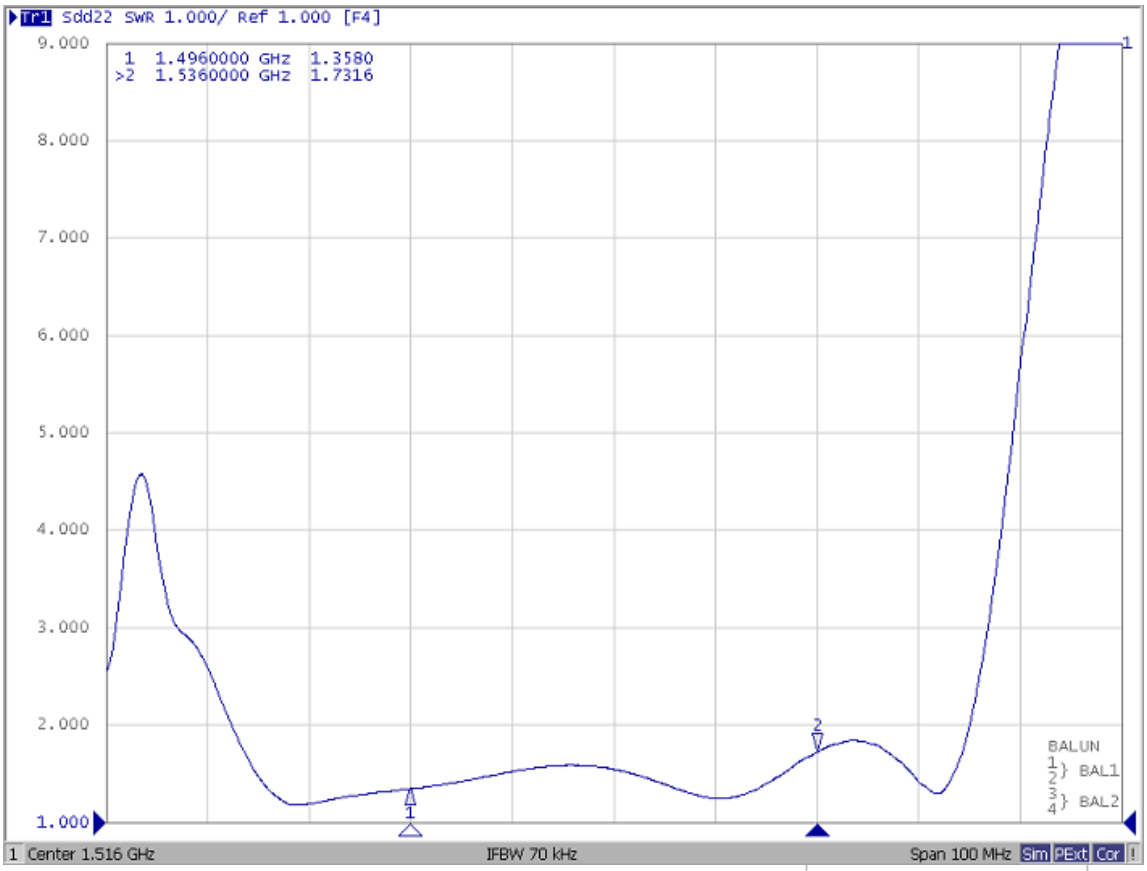

Tr1 Sdd21 Log Mag 10.00dB/ Ref -40.00dB [F4]
1 860.00000 MHz -75.081 dB
2 1.1000000 GHz -73.895 dB
3 1.4239000 GHz -72.729 dB
4 1.6084000 GHz -40.861 dB
5 1.7246000 GHz -55.090 dB
6 2.0000000 GHz -64.032 dB
>7 2.2500000 GHz -60.154 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
BALUN
1 2 BAL1
3 4 BAL2
1 Start 10 MHz
IFBW 70 kHz
Stop 6 GHz
Sim PExt Cor

Reflection Functions:

S11

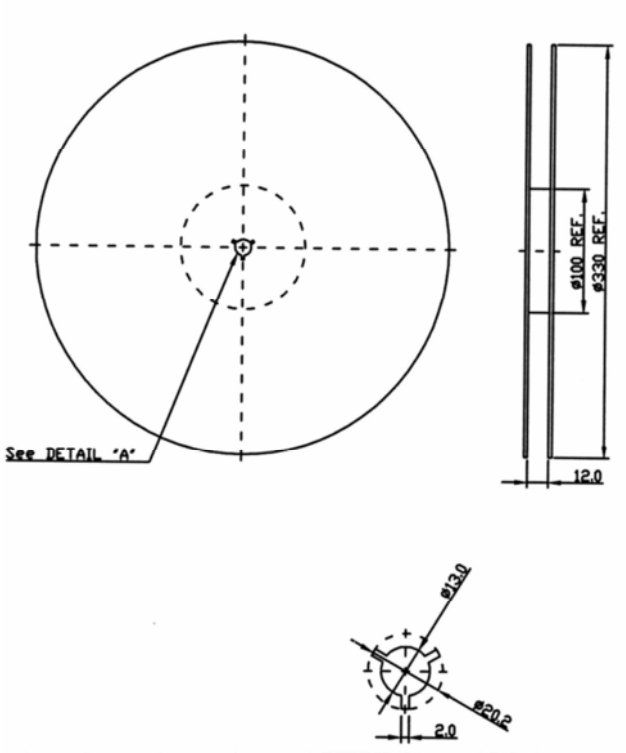


S22

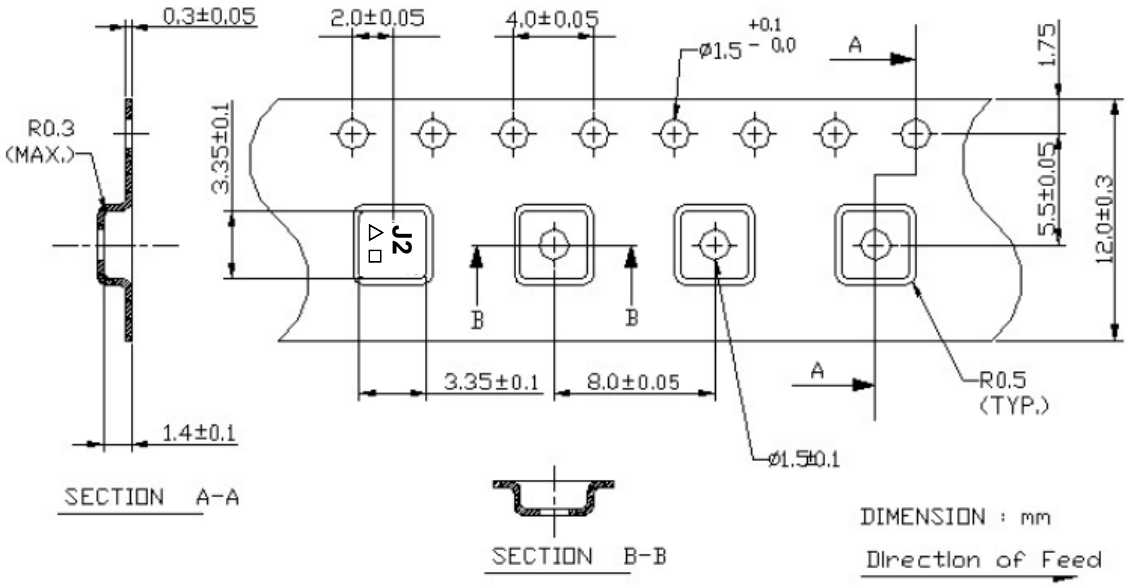


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE: