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 Specification Approval Sheet

Product Description: SAW Filter 1133 MHz SMD 3.0X3.0 mm(BW=35MHz)

TST Part No.: TA2617A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Anne Chen_____

Approved by:_____Andy Yu_____

Date:_____2019/2/02_____

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 1133 MHz 35MHz BW SMD 3.0×3.0 mm

MODEL NO.:TA2617A REV. NO.:1

A. MAXIMUM RATING:

RoHS Compliant
Lead-free soldering

1. Input Power Level: 20 dBm
2. DC Voltage : 3V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

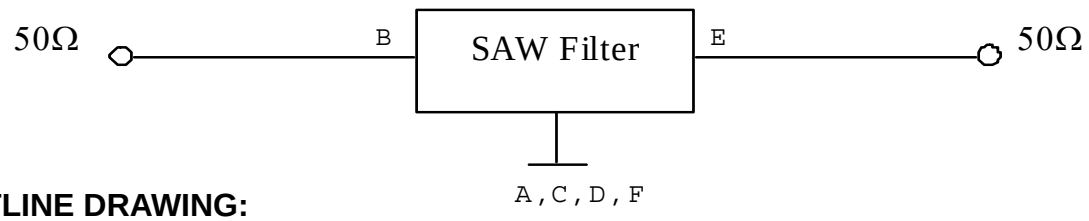
Terminating source impedance (single ended) : Zs = 50 Ω

Terminating load impedance (single ended) : Z_L = 50 Ω

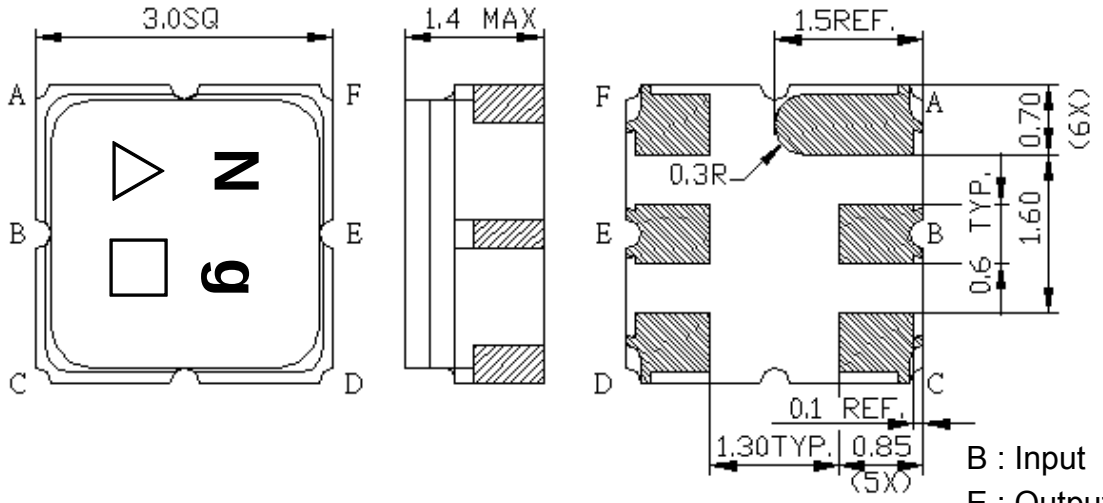
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1133	-	
Insertion Loss (1115 ~ 1150 MHz)	dB	-	3.4	5.0	
Amplitude Variation (1115 ~ 1150 MHz)	dB	-	1.4	2.2	
Amplitude Variation over 3 MHz	dB	-	0.3	1.0	
VSWR (1115 ~ 1150 MHz)		-	1.5	2.5	
Group Delay Variation over 3 MHz	ns	-	5.5	20	
Attenuation (reference level from 0 dB)					
DC~800 MHz	dB	20	65	-	
800~900 MHz	dB	25	64	-	
1180~1200 MHz	dB	10	32	-	
1200~1300 MHz	dB	30	40	-	
1450~1600 MHz	dB	25	56	-	
Temperature Coefficient of Frequency	ppm/℃		-36 typ.		

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D.OUTLINE DRAWING:



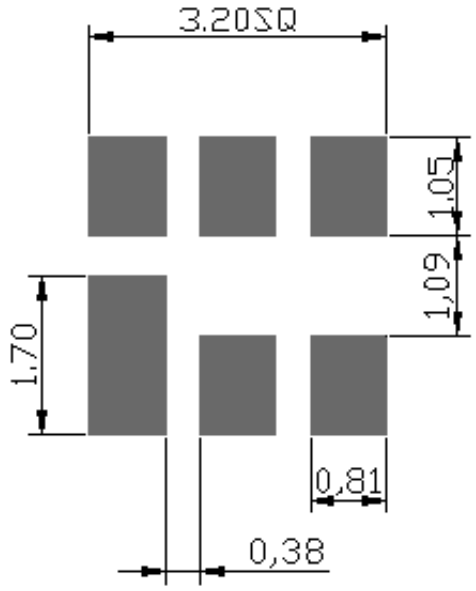
B : Input
E : Output
A,C,D,F : Ground
Unit : mm

△ : Year Code(2007➔7,…2013➔3,…,2019➔9)

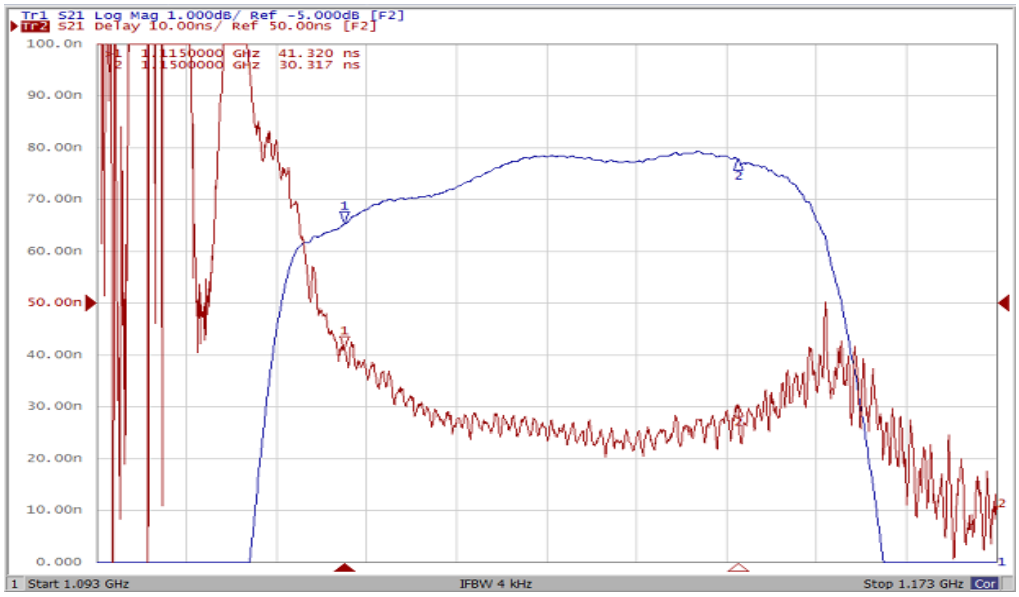
□: Date Code(Follow the table from planner each year)

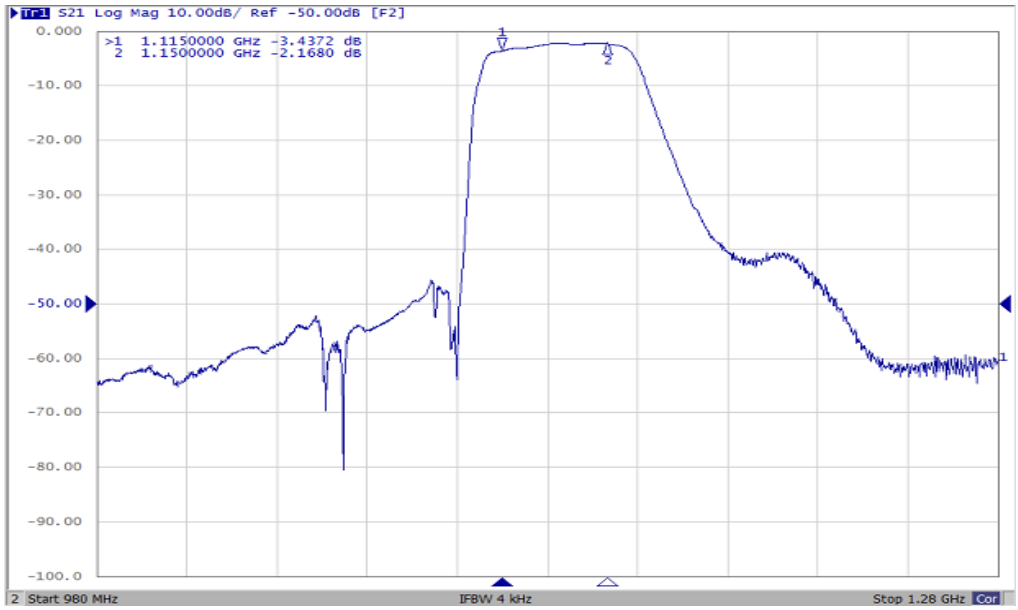
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	**WK15**	**WK16**	**WK17**	**WK18**	**WK19**	**WK20**	**WK21**	**WK22**	**WK23**	**WK24**	**WK25**	**WK26**
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	**WK28**	**WK29**	**WK30**	**WK31**	**WK32**	**WK33**	**WK34**	**WK35**	**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

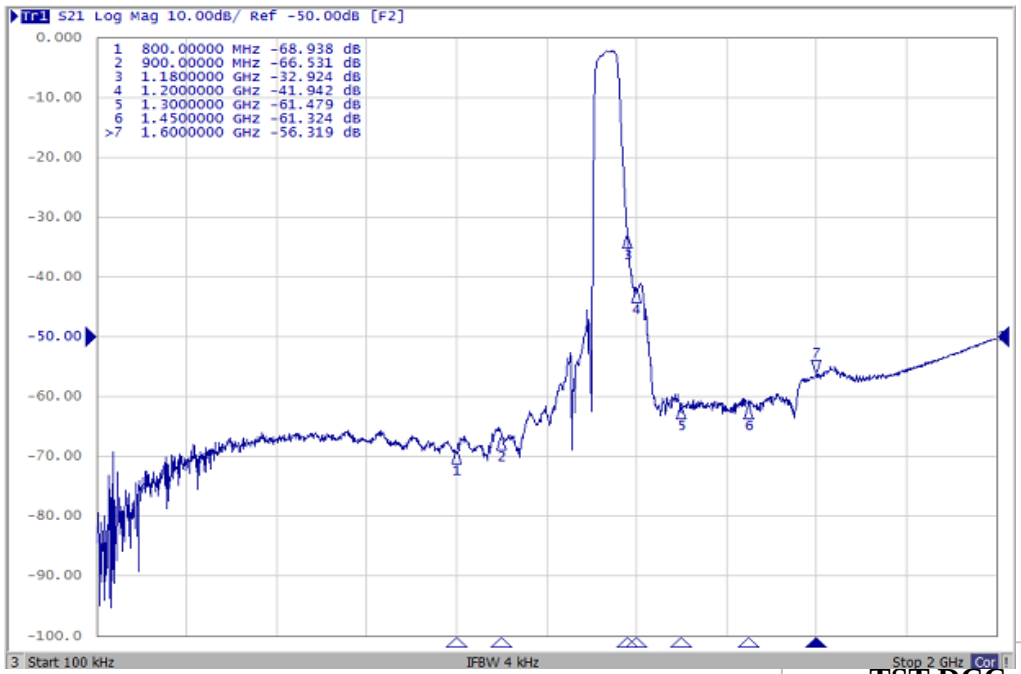
E. PCB Footprint:



F. Frequency Characteristics :

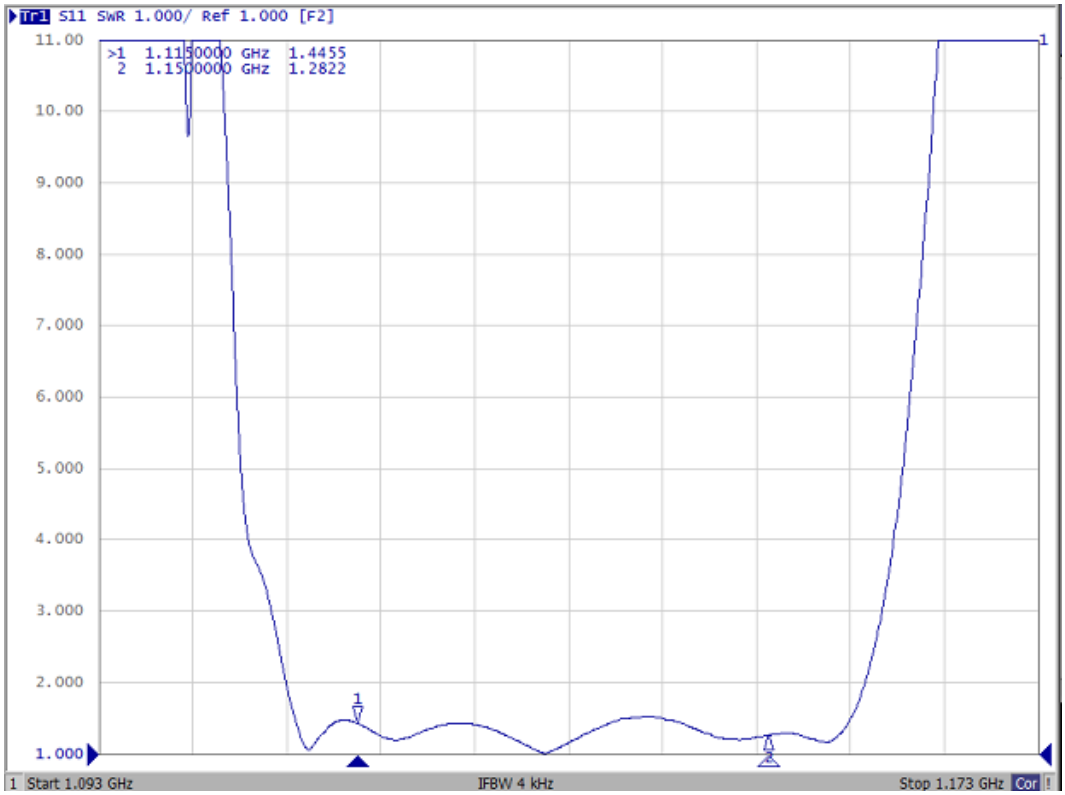


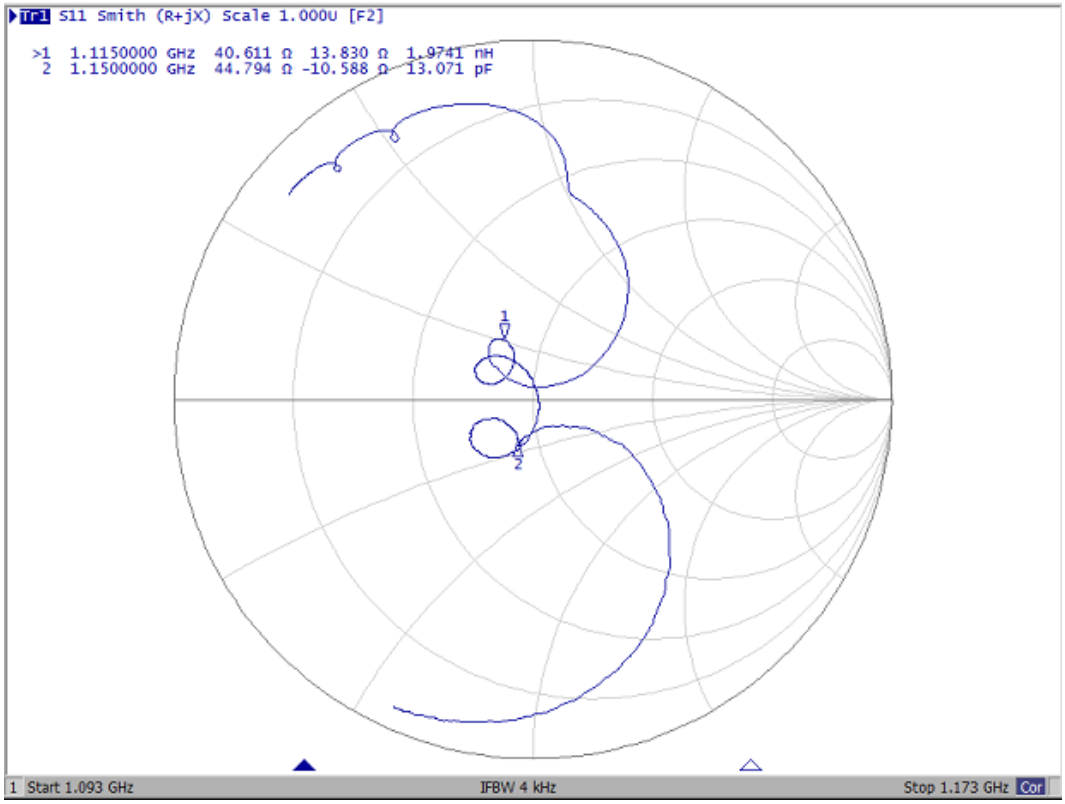




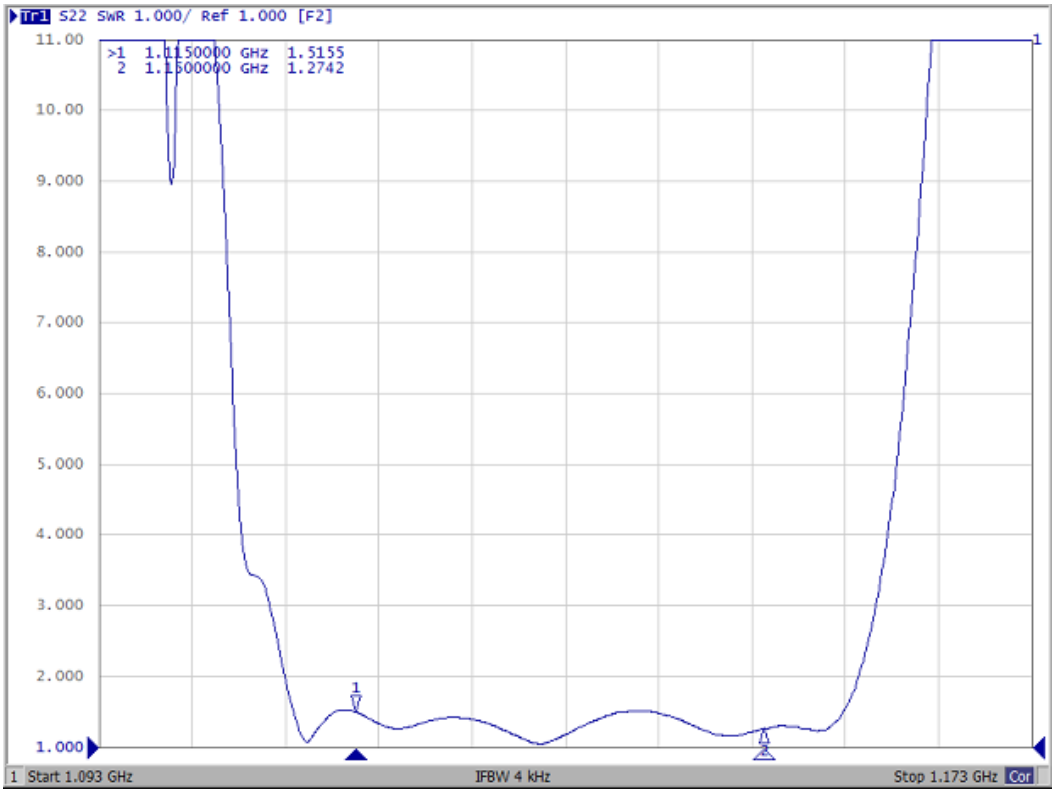
Reflection Functions :

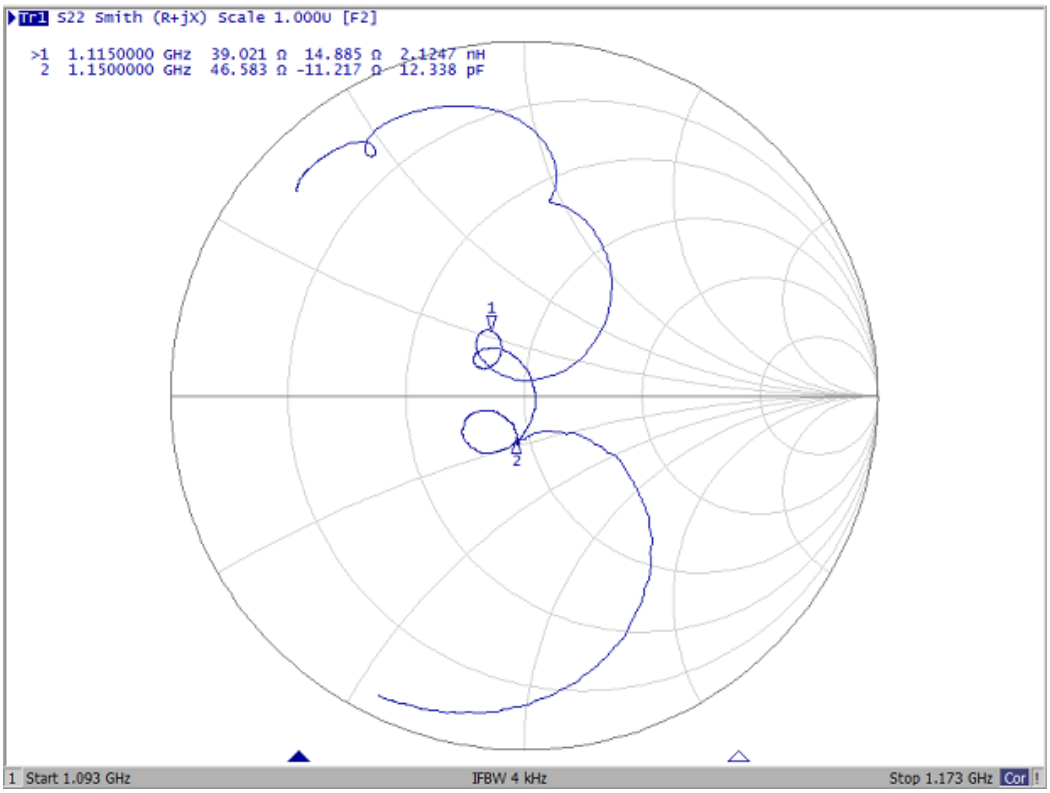
S11





S22

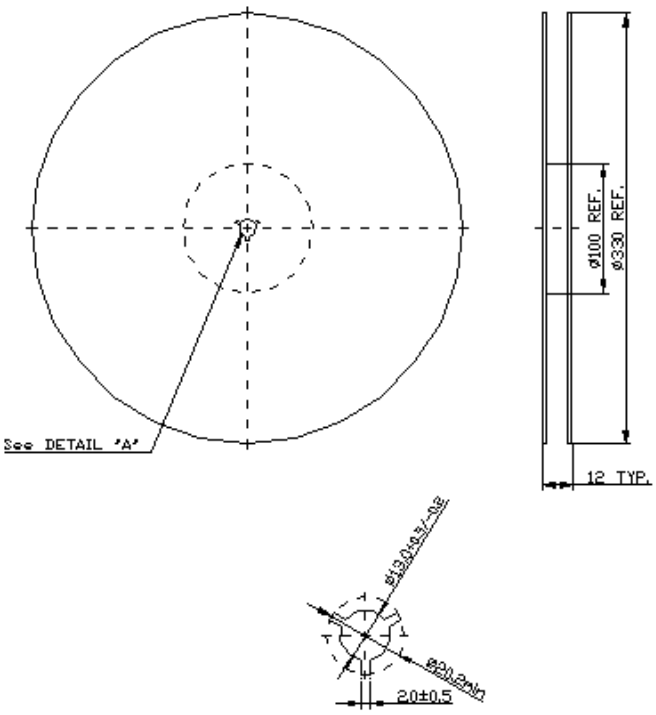

Tr1 S22 SWR 1.000/ Ref 1.000 [F2]
>1 1.1150000 GHz 1.5155
2 1.1500000 GHz 1.2742
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1.093 GHz
IFBW 4 kHz
Stop 1.173 GHz
Cor


Tr1 S22 Smith (R+jX) Scale 1.000U [F2]
>1 1.1150000 GHz 39.021 Ω 14.885 Ω 2.1247 nH
2 1.1500000 GHz 46.583 Ω -11.217 Ω 12.338 pF
1 Start 1.093 GHz
IFBW 4 kHz
Stop 1.173 GHz
Cor

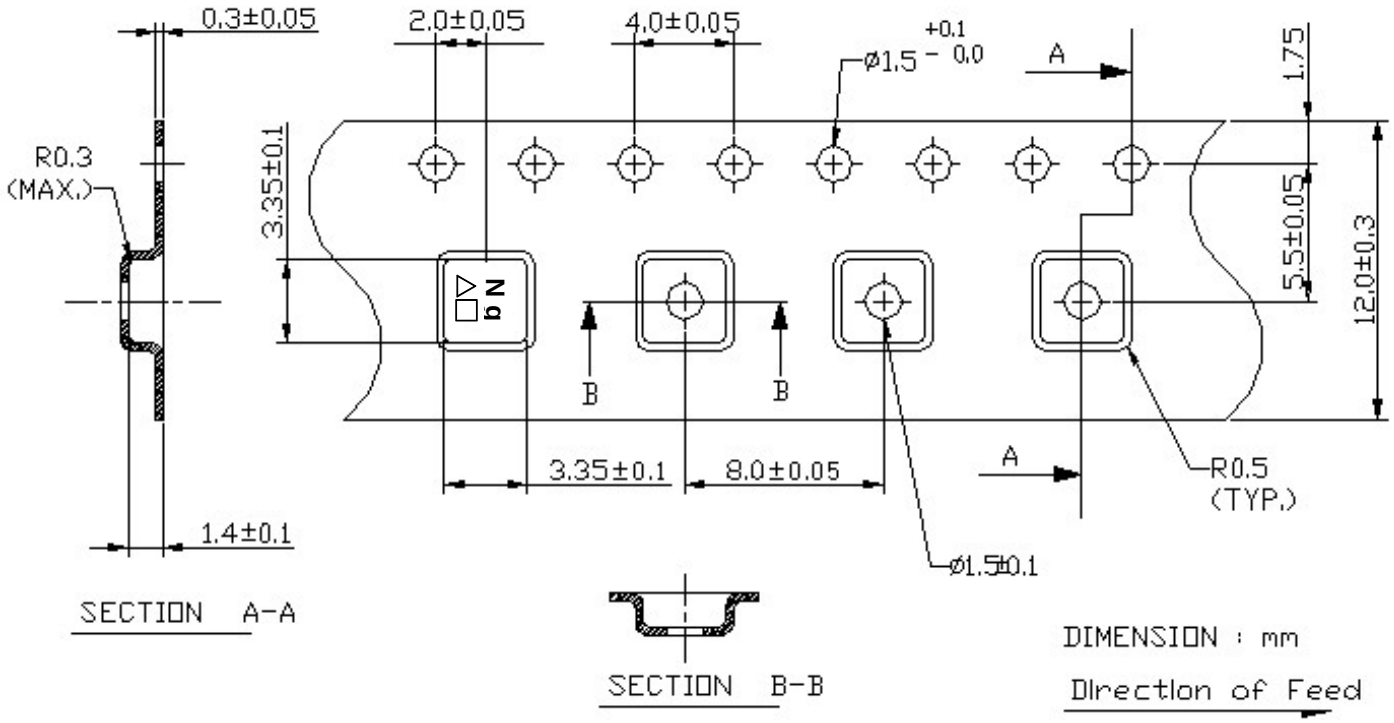
G. PACKING:

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℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time: 2 times.