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 2332.5 MHz SMD 1.1X0.9 mm (BW=25MHz)

TST Parts No.: TA2568A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau _____

Approval by:_____ Andy Yu _____

Date:_____ 2021/06/11 _____

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 2332.5MHz BW25MHz SMD 1.1x0.9mm

MODEL NO.:TA2568A REV. NO.:3.0

A. MAXIMUM RATING:

RoHS Compliant
Lead-free soldering

1. Input Power Level: 10 dBm
2. DC Voltage : 6 V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 2a

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

B. ELECTRICAL CHARACTERISTICS:

Temperature range for specification : Tspec = -40°C to +105°C
Terminating source impedance : Zs = 50 Ω
Terminating load impedance : Z_L = balanced 100 Ω

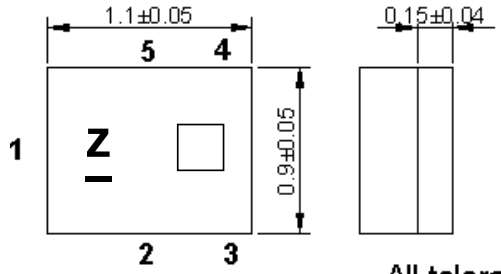
Item		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	2332.5	-
Min. Insertion Loss (2320~2345 MHz)		dB	-	1.6	-
Max. Insertion Loss (2320~2345 MHz)	**IL**	dB		1.8	2.8[1)]
Max. Insertion Loss (2320~2345 MHz)	**IL**	dB	-	1.8	3.2
Amplitude Ripple (2320~2345 MHz)		dB_{p-p}	-	0.3	1.3[1)]
Amplitude Ripple (2320~2345 MHz)		dB_{p-p}	-	0.5	1.7
Min. Input Return Loss (2320~2345 MHz)		dB	9	13	-
Min. Output Return Loss (2320~2345 MHz)		dB	9	12	-
Variation of amplitude imbalance (2320~2345 MHz)		dB	-2[1)]	0.3	2.5[1)]
Variation of amplitude imbalance (2320~2345 MHz)		dB	-5	-0.5	3.5
Variation of phase imbalance (2320~2345 MHz)		deg	-12[1)]	-5	12[1)]
Variation of phase imbalance (2320~2345 MHz)		deg	-15	-5	15
Attenuation (refer to min. IL)					
88 ~ 880 MHz		dB	50	67	-
880 ~ 1710 MHz		dB	41	59	-
1710 ~ 1910 MHz		dB	40	55	-
1910 ~ 2090 MHz		dB	39	55	-

TST DCC
Release document

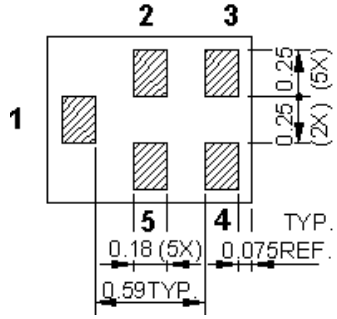
2090 ~ 2190 MHz	dB	35	45	-
2190 ~ 2250 MHz	dB	30	45	-
2250 ~ 2275 MHz	dB	11	40	-
2300 MHz	dB	-	4	-
2305 MHz	dB	-	2.7	-
2310 MHz	dB	-	1	-
2315 MHz	dB	-	0.5	-
2350 MHz	dB	-	0.5	-
2355 MHz	dB	-	1	-
2360 MHz	dB	-	1.5	-
2365 MHz	dB	-	2.5	-
2390 MHz	dB	-	10	-
2400 ~ 2425 MHz	dB	13	22	-
2425 ~ 2500 MHz	dB	30	33	-
2500 ~ 2600 MHz	dB	35	41	-
2600 ~ 2800 MHz	dB	40	47	-
2800 ~ 3000 MHz	dB	38	51	-
3000 ~ 4000 MHz	dB	33	49	-
4000 ~ 4800 MHz	dB	29	50	-
4800 ~ 6000 MHz	dB	25	44	-
Group Delay Variation (2320~2345 MHz) **GDV**	ns	-	3	15[1)]
Group Delay Variation (2320~2345 MHz) **GDV**	ns	-	4	20
Package size	mm	SMD 1.1x0.9		

1) Valid for temperature -20℃ ~ +85℃
Insertion Loss include 0.05dB PCB loss

C.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

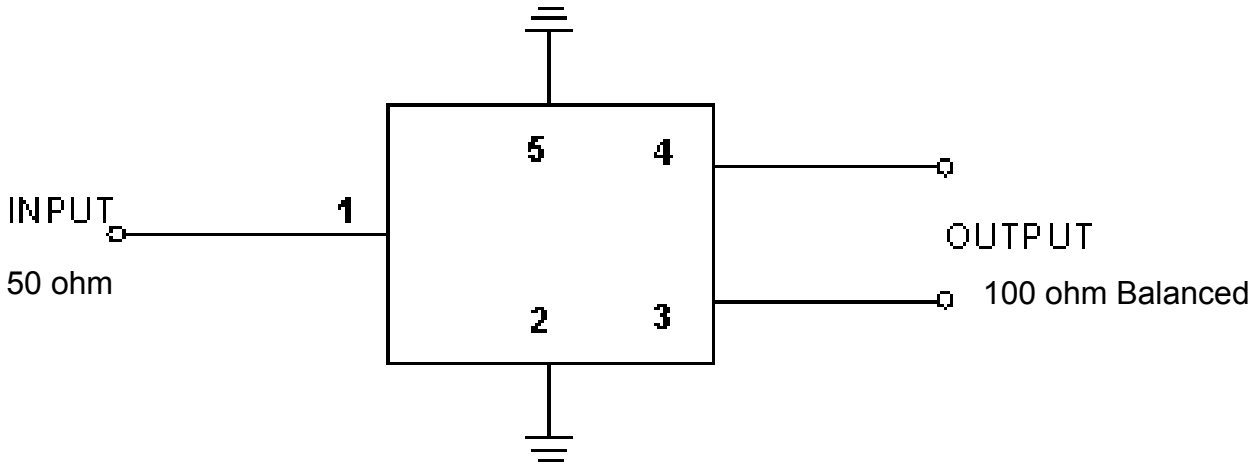


1 : Unbalanced Input
3, 4 : Balanced Output
2, 5 : Ground

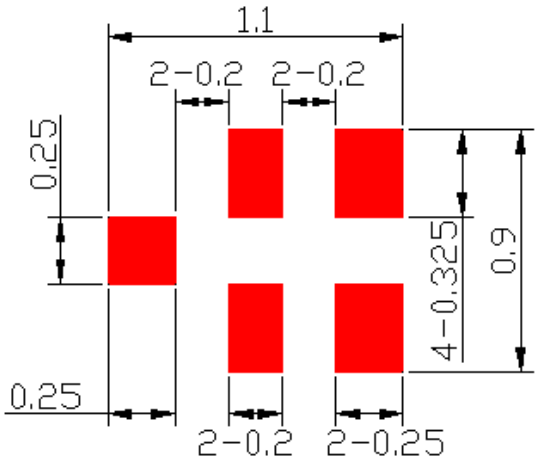
☐ **: Year/Month Code (Follow the table)**

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2022	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2023	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2024	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2025	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2026	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2027	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2028	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

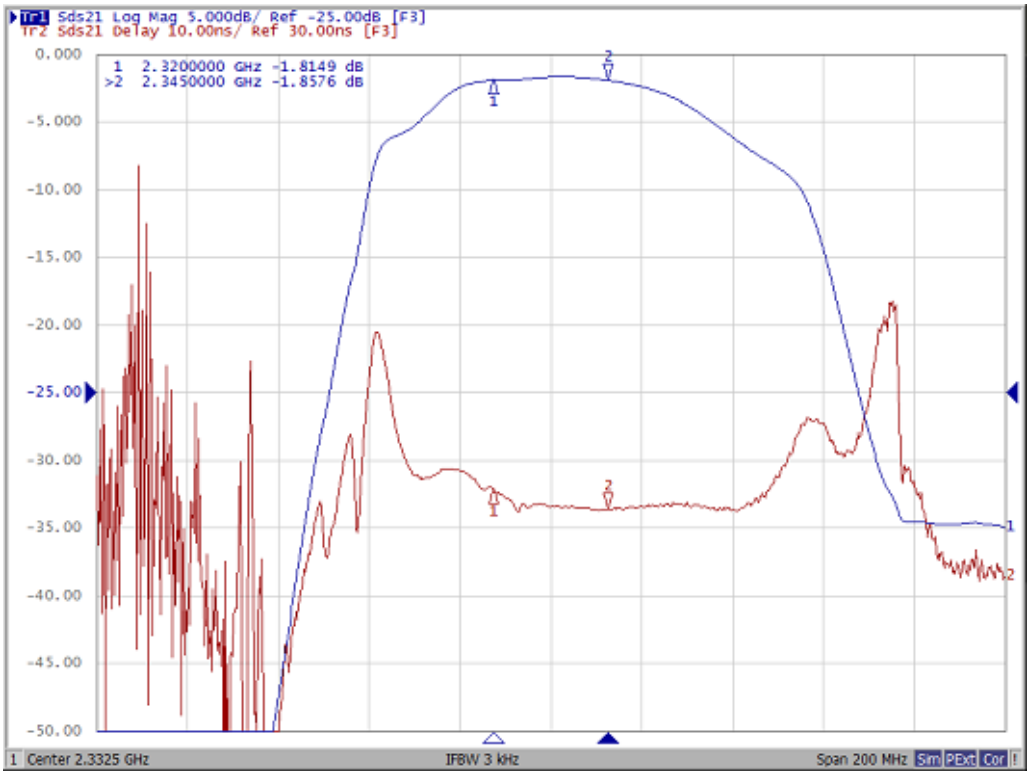
D. MEASUREMENT CIRCUIT:

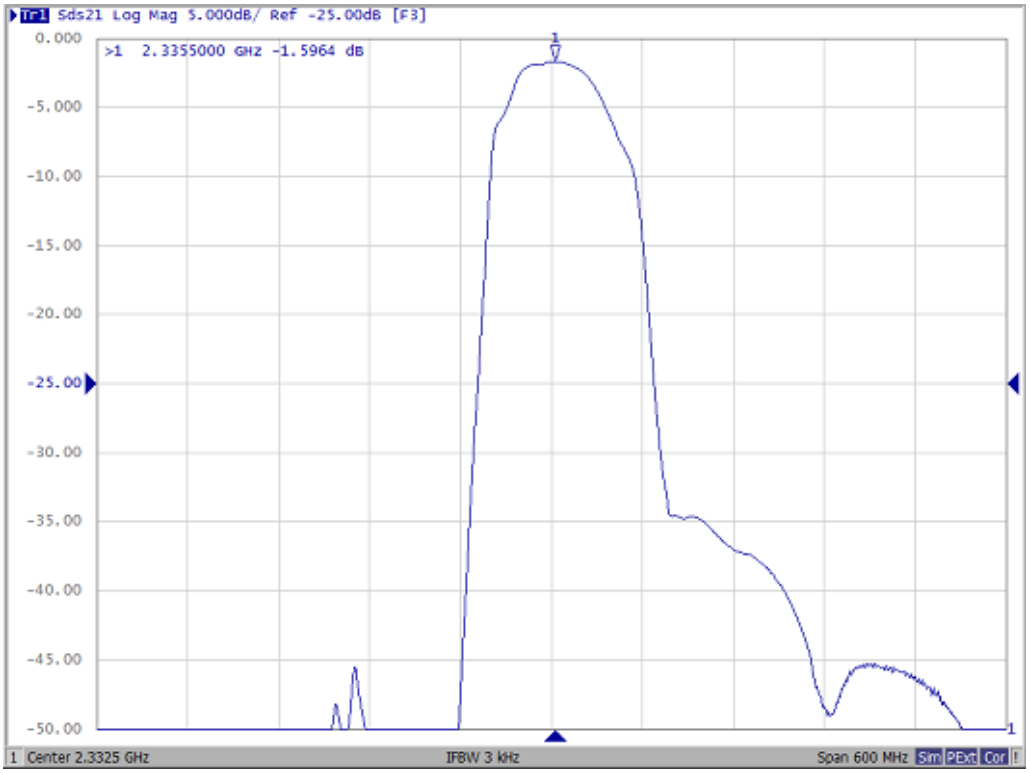


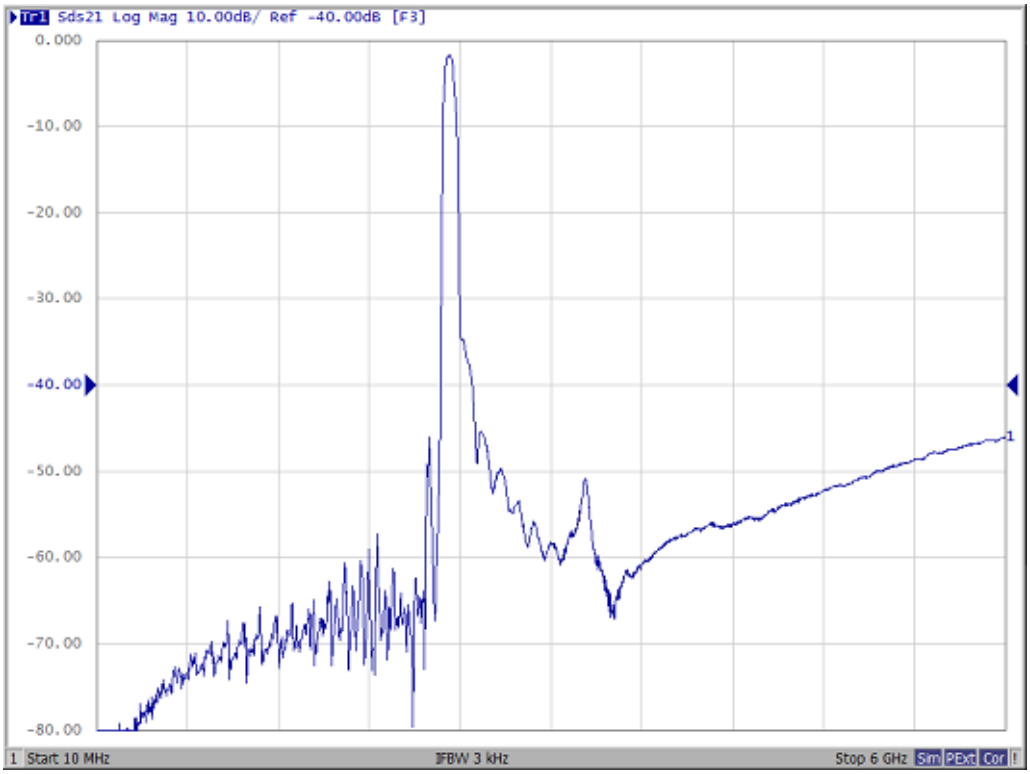
E. PCB Footprint：

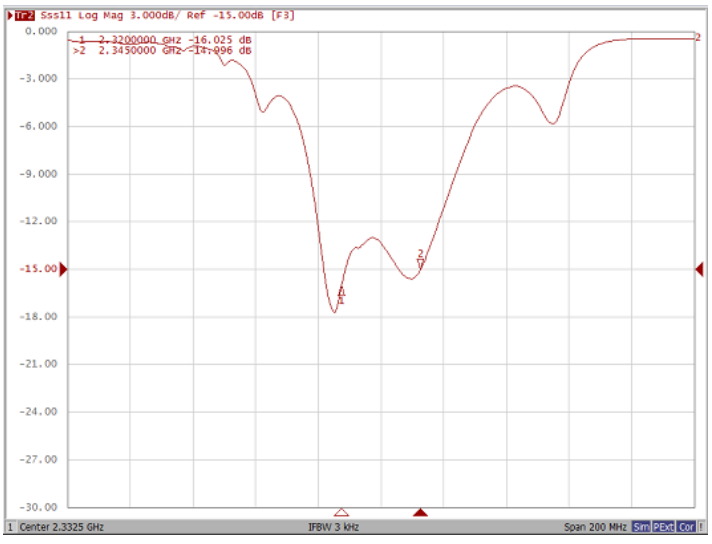


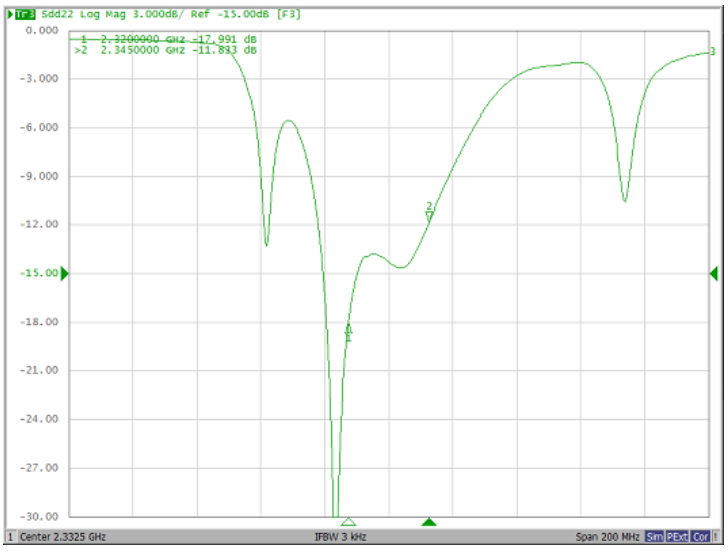
F. Frequency Characteristics:






Tr1 Sds21 Log Mag 10.00dB/ Ref -40.00dB [F3]
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
1 Start 10 MHz
IFBW 3 kHz
Stop 6 GHz
Sm PExt Cor

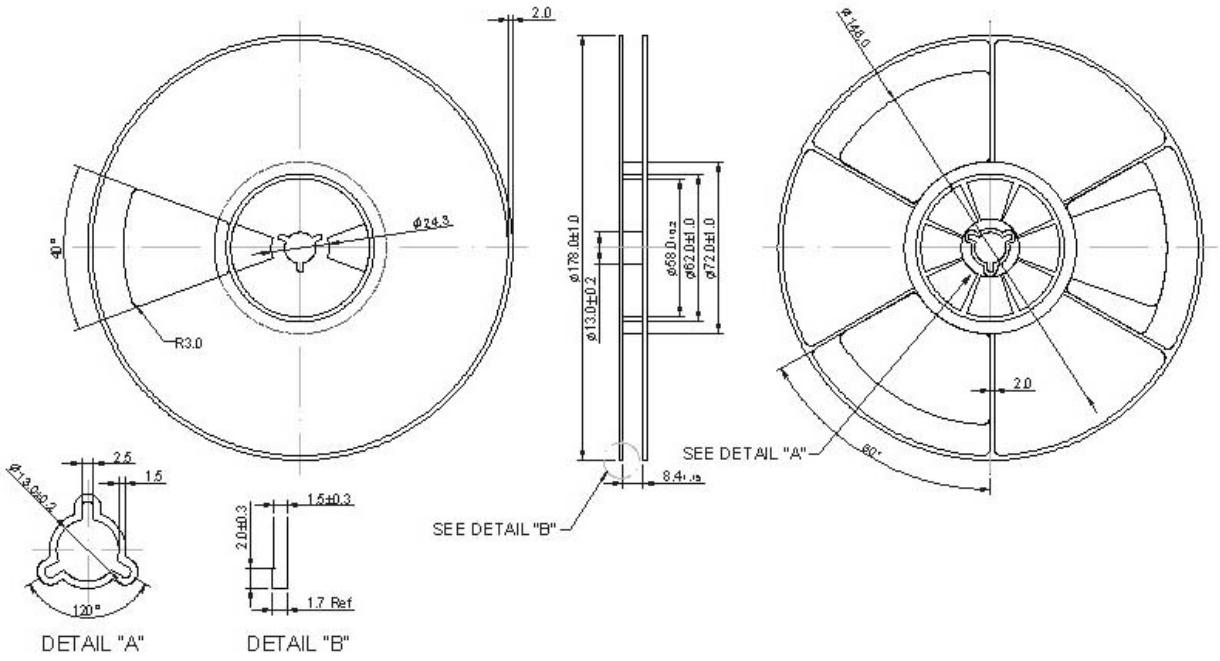

Tr2 Ss11 Log Mag 3.000dB/ Ref -15.00dB [F3]
1 2.3200000 GHz -16.025 dB
>2 2.3450000 GHz -14.096 dB
0.000
-3.000
-6.000
-9.000
-12.00
-15.00
-18.00
-21.00
-24.00
-27.00
-30.00
1 Center 2.3325 GHz
IFBW 3 kHz
Span 200 MHz
Sm PExt Cor


Tr3 Sdd22 Log Mag 3.000dB/ Ref -15.00dB [F3]
1 2.3200000 GHz -17.991 dB
>2 2.3450000 GHz -11.833 dB
0.000
-3.000
-6.000
-9.000
-12.00
-15.00
-18.00
-21.00
-24.00
-27.00
-30.00
1 Center 2.3325 GHz
IFBW 3 kHz
Span 200 MHz
Sm PExt Cor

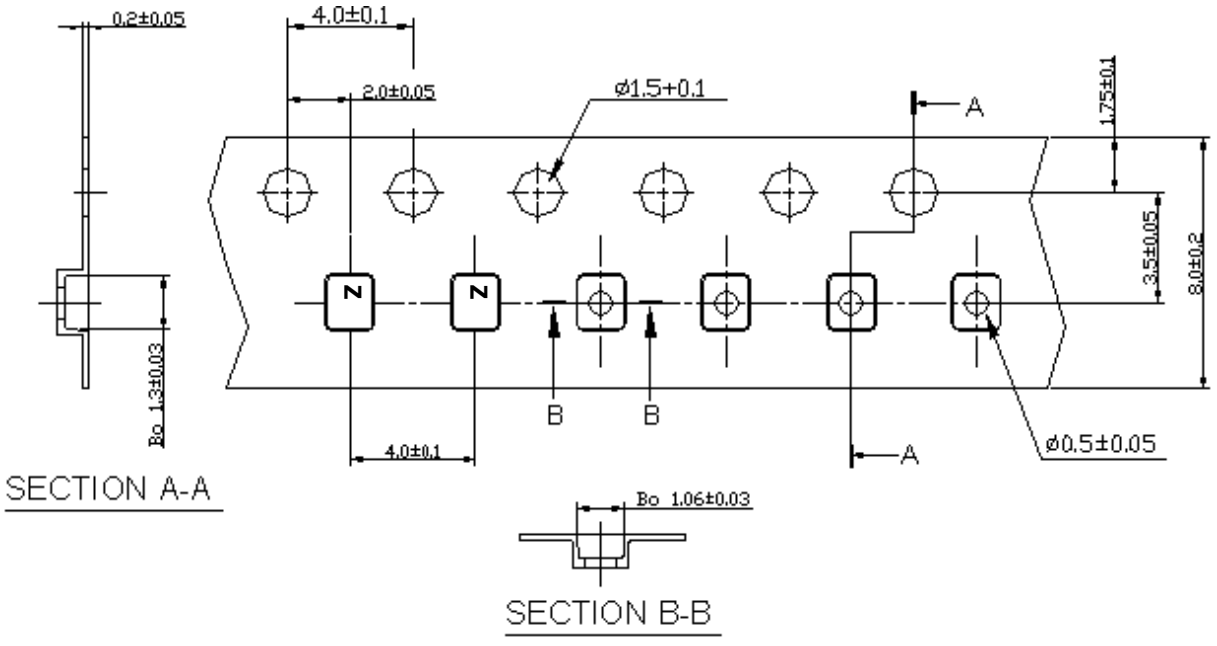
G. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



Direction of Feed

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.

