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 Name: SAW Filter 881.5MHz 25MHz BW SMD 1.1×0.9 mm

TST Parts No.: TA1690A

Customer Part No.:_____

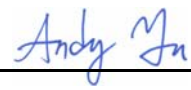
Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Yu 

Approved by:_____ Bob Chau 

Date:_____ 2013, 11,25

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 881.5MHz 25MHz BW SMD 1.1×0.9 mm

MODEL NO.: TA1690A REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 29 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

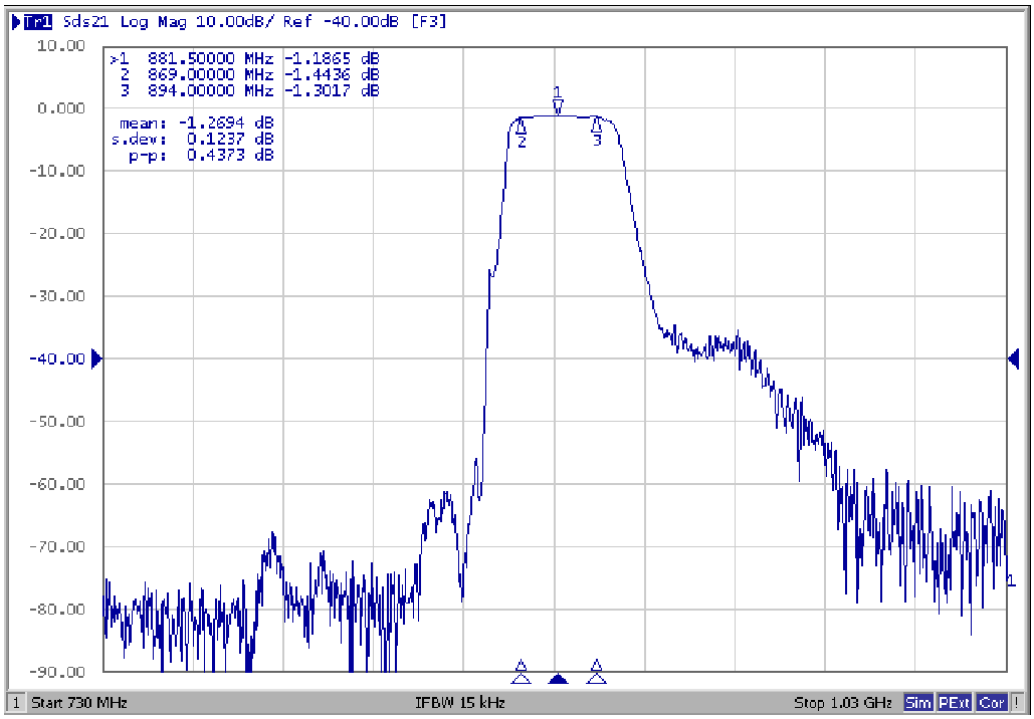
B. ELECTRICAL CHARACTERISTICS:

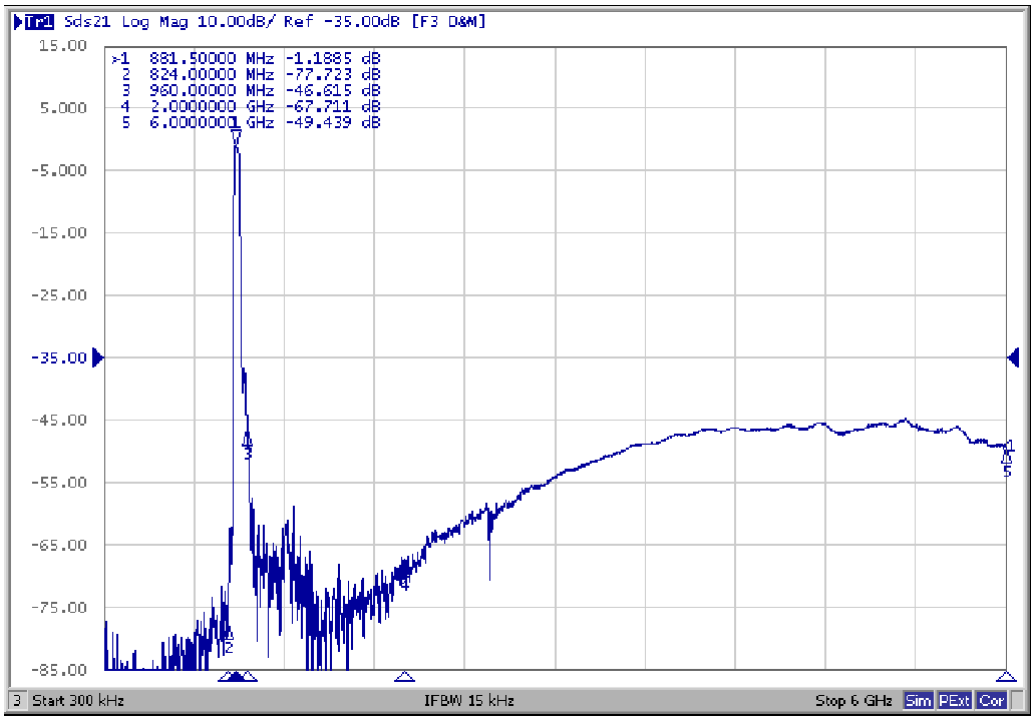
Parameters Description (Band 1)	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	881.5	-
Insertion Loss within 869.0 ~ 894.0 MHz	dB	-	1.5	2.0
Amplitude Ripple within 869.0 ~ 894.0 MHz	dB_{p-p}	-	0.5	1.0
VSWR within 869.0 ~ 894.0 MHz	-	-	1.6	2.0
Amplitude balance within 869.0 ~ 894.0 MHz	dB	-1.0	-0.1 ~ +0.2	+1.0
Phase balance within 869.0 ~ 894.0 MHz	deg	-10	-0.2 ~ +3.5	+10
Attenuation:				
DC ~ 824.0 MHz	dB	50	65	-
824.0 ~ 849.0 MHz	dB	50	56	-
914.0 ~ 960.0 MHz	dB	25	35	-
960.0 ~ 2000.0 MHz	dB	40	50	-
2000.0 ~ 6000.0 MHz	dB	30	43	-

Notes : (1) No Matching Network .

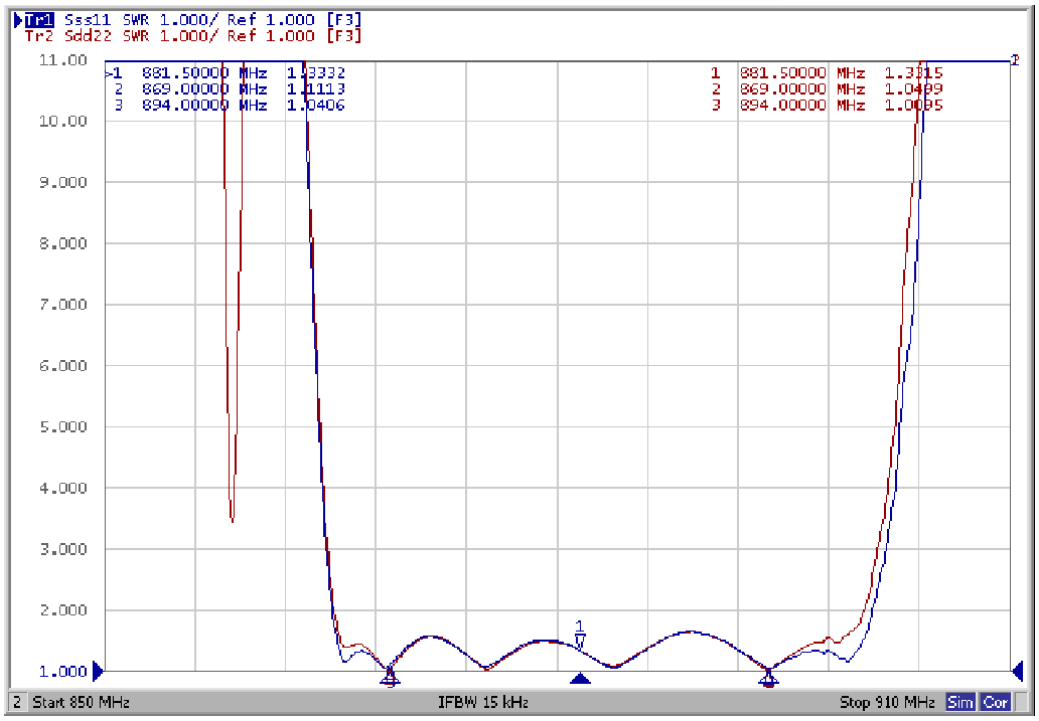
C. Frequency Characteristics :

Frequency Response

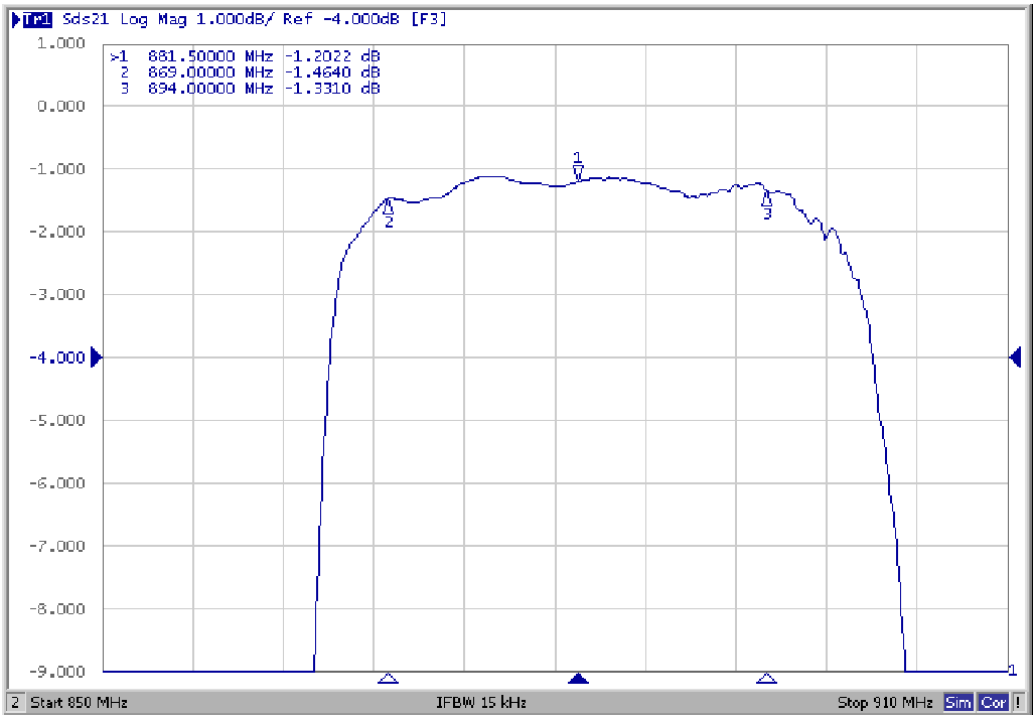




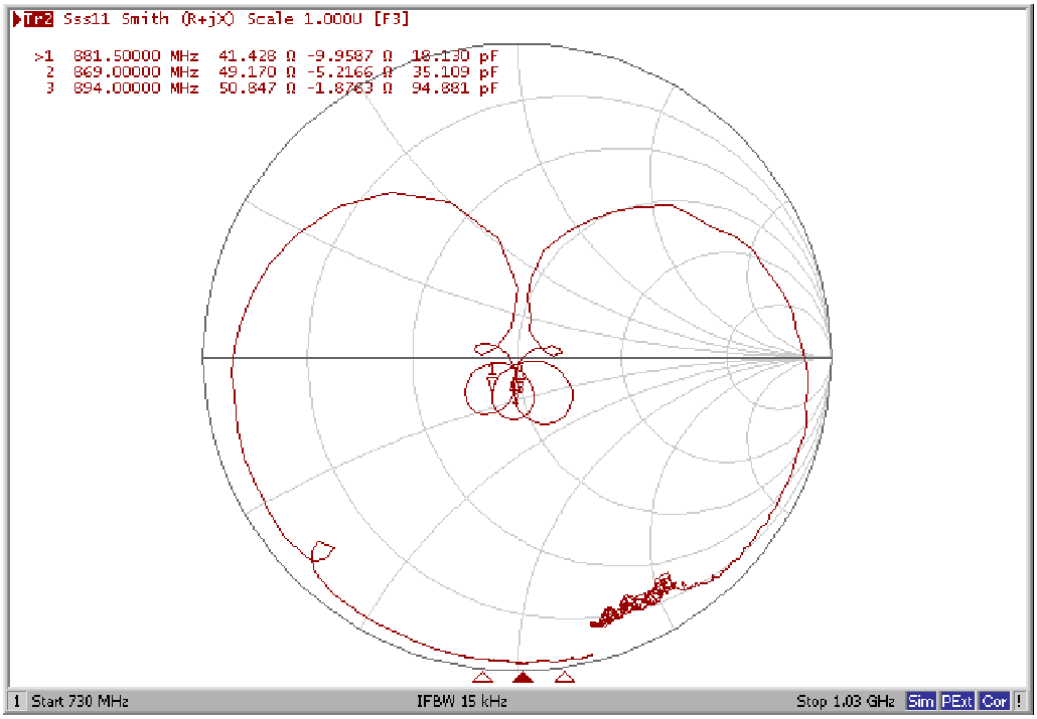
VSWR

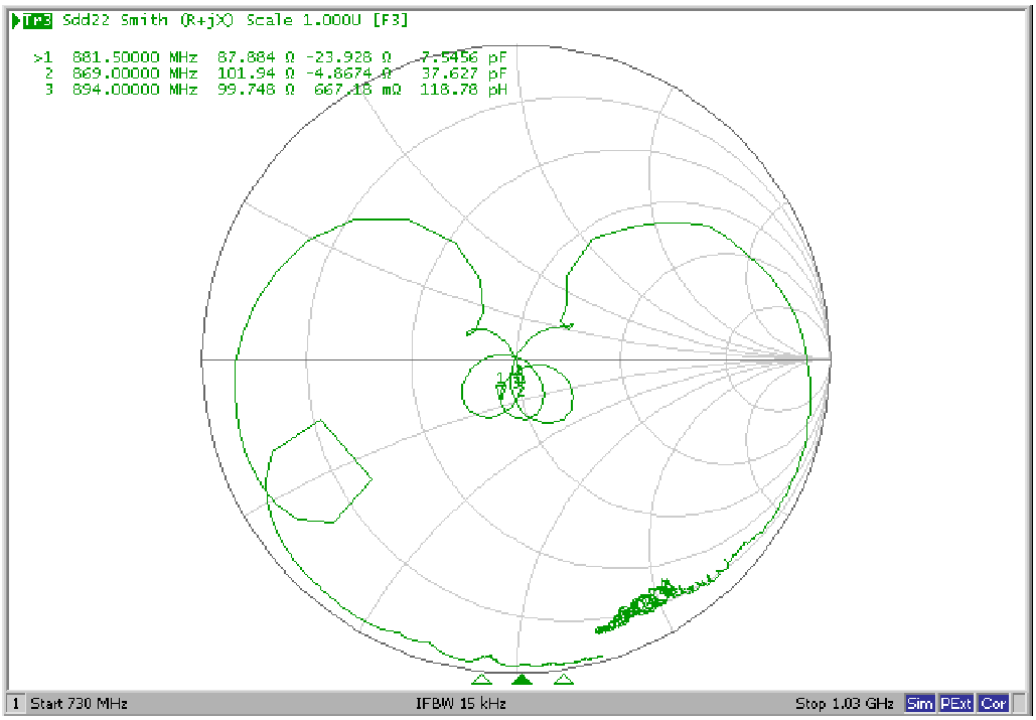

Tr1 Sss11 SWR 1.000/ Ref 1.000 [F3]
Tr2 Sdd22 SWR 1.000/ Ref 1.000 [F3]
>1 881.50000 MHz 1.3332
2 869.00000 MHz 1.1113
3 894.00000 MHz 1.0406
1 881.50000 MHz 1.3315
2 869.00000 MHz 1.0499
3 894.00000 MHz 1.0095
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
2 Start 850 MHz
IFBW 15 kHz
Stop 910 MHz
Sim
Cor

Ripple


Tr1 Sds21 Log Mag 1.000dB/ Ref -4.000dB [F3]
>1 881.50000 MHz -1.2022 dB
2 869.00000 MHz -1.4640 dB
3 894.00000 MHz -1.3310 dB
1.000
0.000
-1.000
-2.000
-3.000
-4.000
-5.000
-6.000
-7.000
-8.000
-9.000
2 Start 850 MHz
IFBW 15 kHz
Stop 910 MHz
Sim
Cor

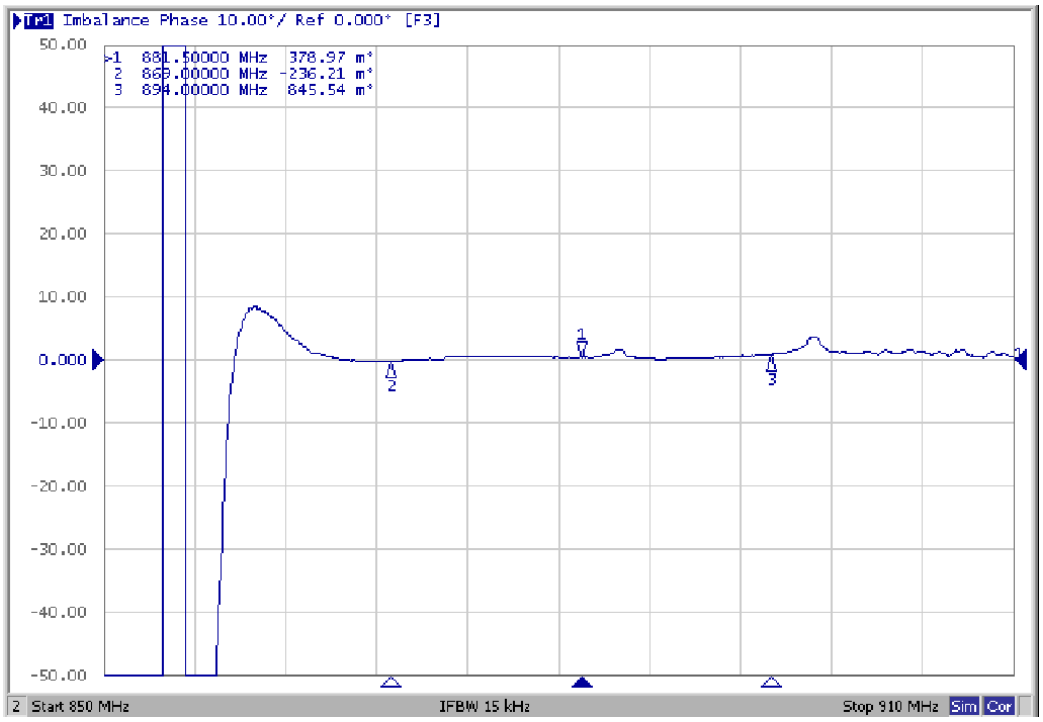
Smith Chart


Sss11 Smith (R+jX) Scale 1.000U [F3]
>1 881.50000 MHz 41.428 Ω -9.9587 Ω 18.130 pF
2 869.00000 MHz 49.170 Ω -5.2166 Ω 35.109 pF
3 894.00000 MHz 50.847 Ω -1.8763 Ω 94.881 pF
1 Start 730 MHz
IFBW 15 kHz
Stop 1.03 GHz
Sim PExt Cor

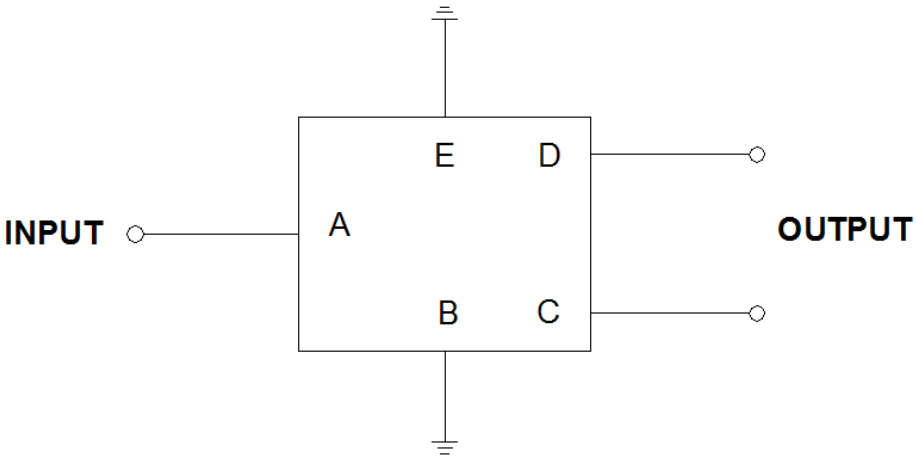

Sdd22 Smith (R+jX) Scale 1.000U [F3]
>1 881.50000 MHz 87.884 Ω -23.928 Ω -7.5456 pF
2 869.00000 MHz 101.94 Ω -4.8674 Ω 37.627 pF
3 894.00000 MHz 99.748 Ω 667.18 mΩ 118.78 pH
1 Start 730 MHz
IFBW 15 kHz
Stop 1.03 GHz
Sim PExt Cor

Amplitude balance

Phase balance



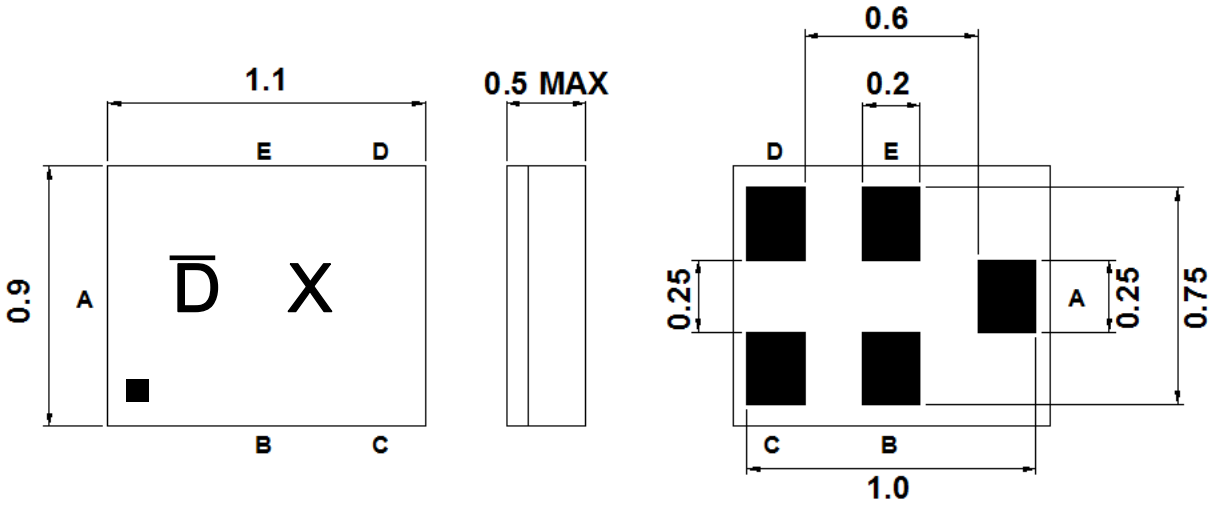
D. MEASUREMENT CIRCUIT:



Source Impedance: 50 Ω

Load Impedance: 100 Ω

E.OUTLINE DRAWING:



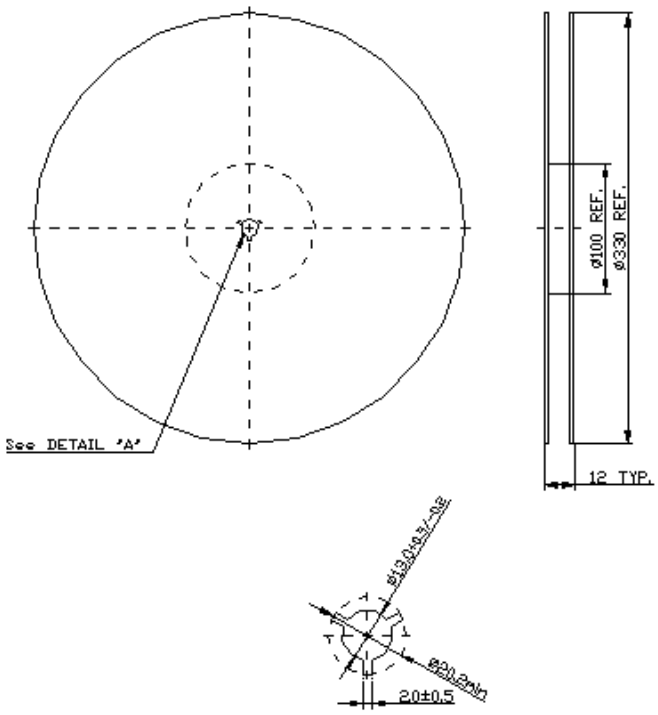
Marking Descriptions	
D̄	Series Number
X	Date Code(Year+Month)

Pin Description	
B, E	Ground
A	Input
C,D	Balanced Output

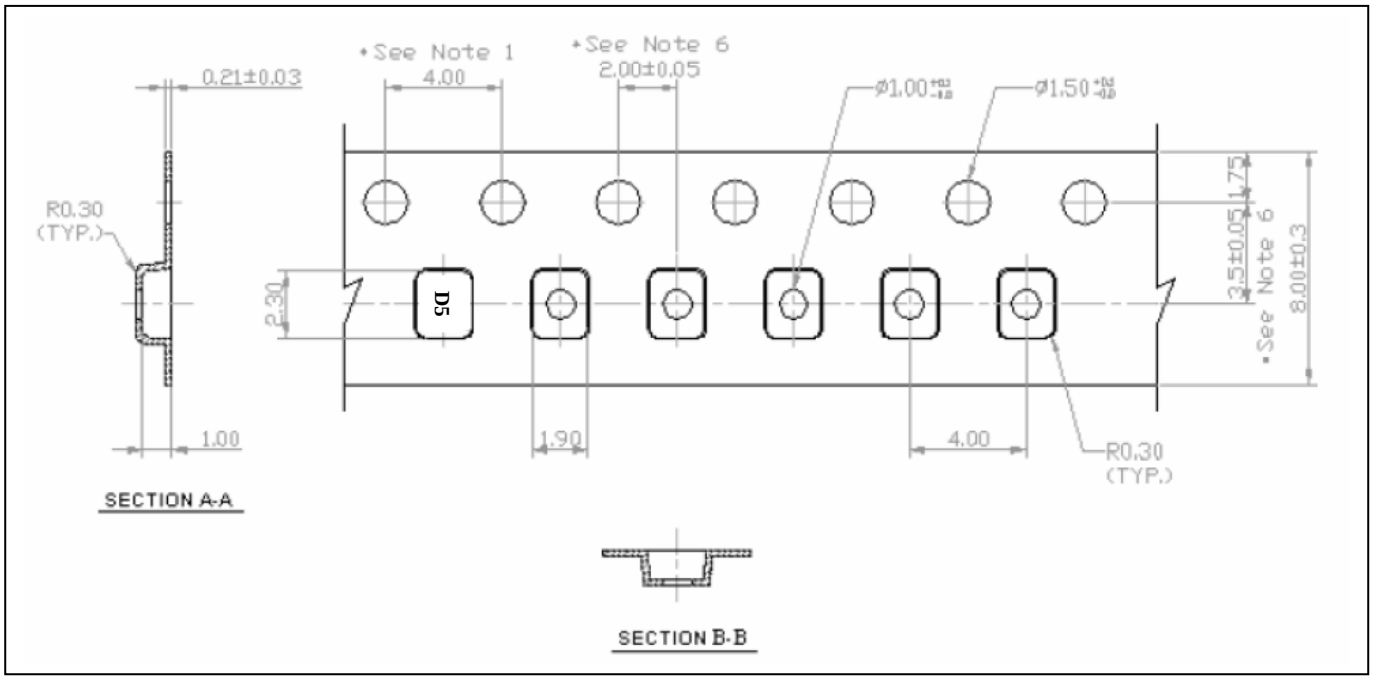
E. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



F. RECOMMENDED REFLOW PROFILE :