



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 1588.655 MHz (BW 34.47MHz) SMD 1.1X0.9mm

TST Parts No.:TA1855A

Customer Parts No.:_____

Company:_____
Division:_____
Approved by :_____
Date:_____

Checked by:_____Michael Yang *Michael*

Approval by:_____Bob Chau *Bob Chau*

Date:_____2015/05/22

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 1588.655 MHz (BW 34.47MHz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA1855A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C

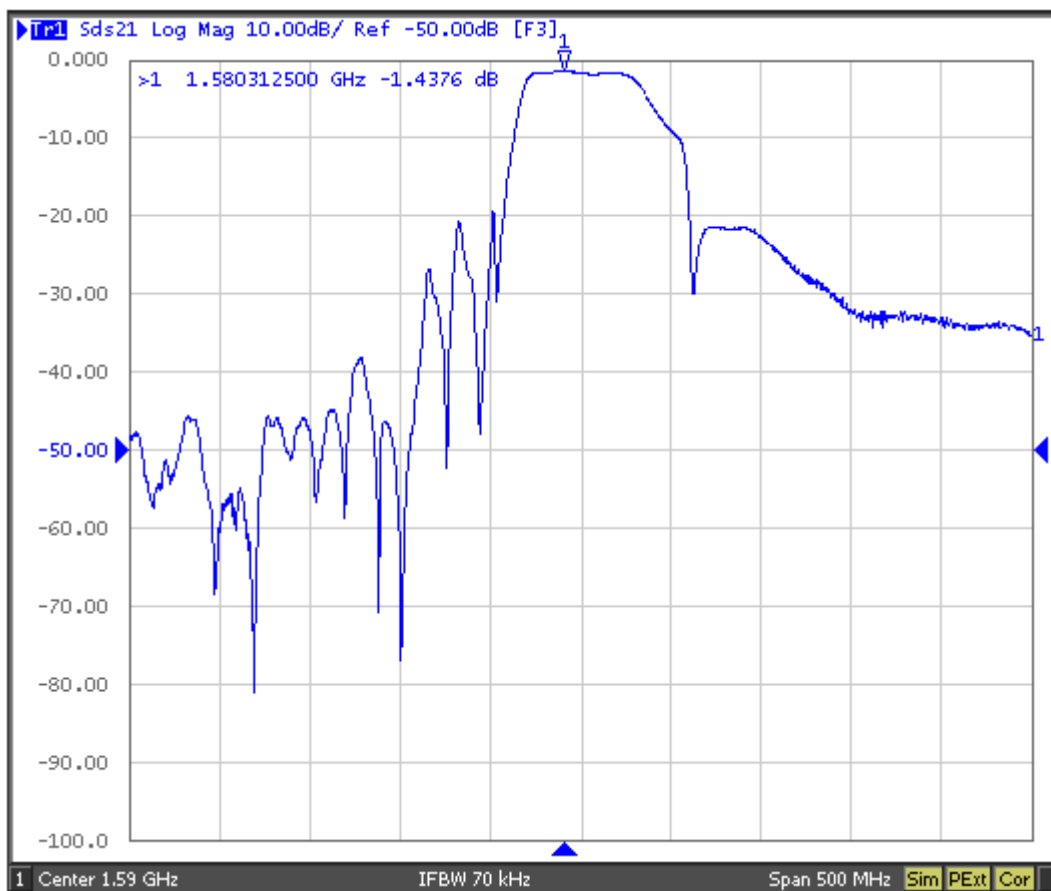
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

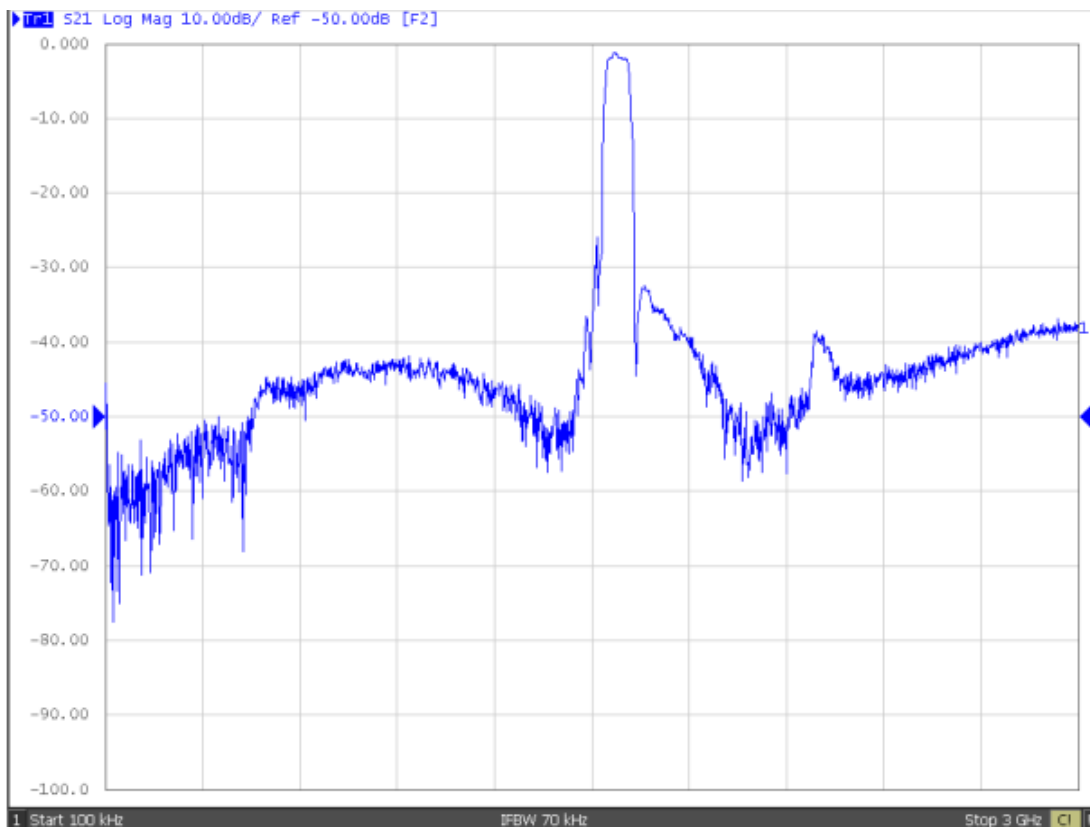
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1588.655	-	-
Insertion Loss (1573.42~1577.42 MHz) IL	dB	-	1.6	2.0	-
(1597.55~1605.89 MHz) IL	dB	-	1.6	2.2	-
(1571.42~1605.89 MHz) IL	dB	-	1.7	2.2	-
VSWR (1573.42~1577.42 MHz)		-	1.6	2.0	-
(1597.55~1605.89 MHz)		-	2	2.3	-
(1571.42~1605.89 MHz)		-	2	2.3	-
Amplitude ripple (1573.42~1577.42 MHz)	dB	-	0.3	0.6	-
(1597.55~1605.89 MHz)	dB	-	0.3	0.6	-
(1571.42~1605.89 MHz)	dB	-	0.5	1	-
G-Delay ripple (1573.42~1577.42 MHz)	nS	-	4	8	-
(1597.55~1605.89 MHz)	nS	-	7	11	-
(1571.42~1605.89 MHz)	nS	-	8	11	-
Attenuation					
500 ~ 1350 MHz	dB	45	50	-	-
1350 ~ 1450 MHz	dB	42	45	-	-
1450 ~ 1525 MHz	dB	20	25	-	-
1670 ~ 1700 MHz	dB	19	21	-	-
1700 ~ 2150 MHz	dB	23	28	-	-
2150 ~ 2700 MHz	dB	35	40	-	-
Package size	mm	SMD 1.1x0.9			

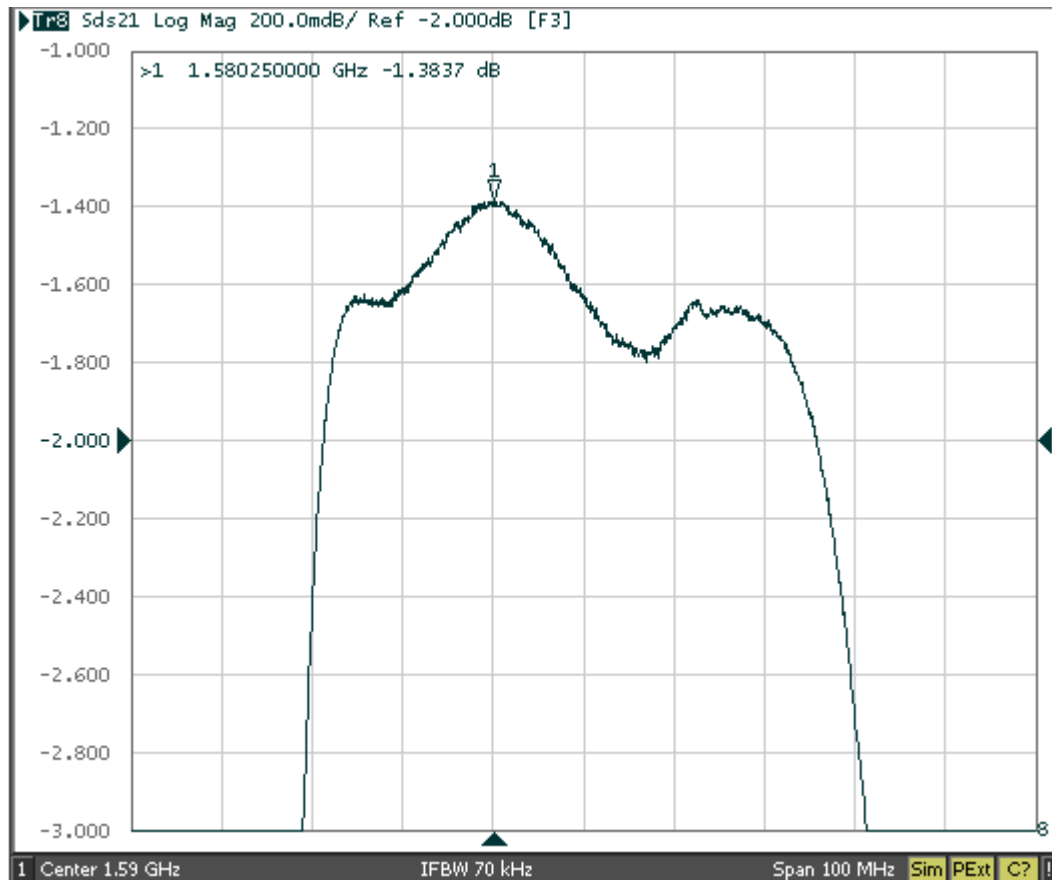
C.FREQUENCY CHARACTERISTICS:
S21 response: (span 500MHz)



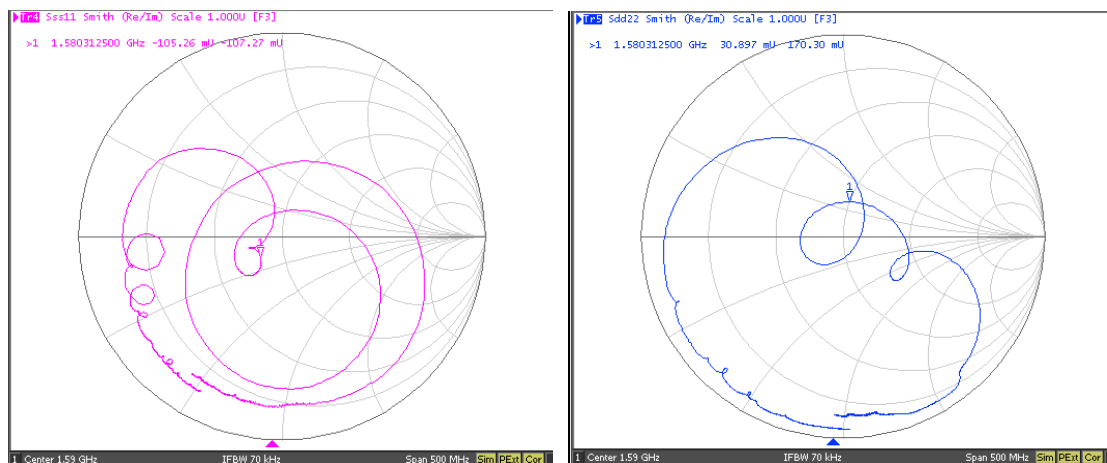
S21 response: (span 3GHz)



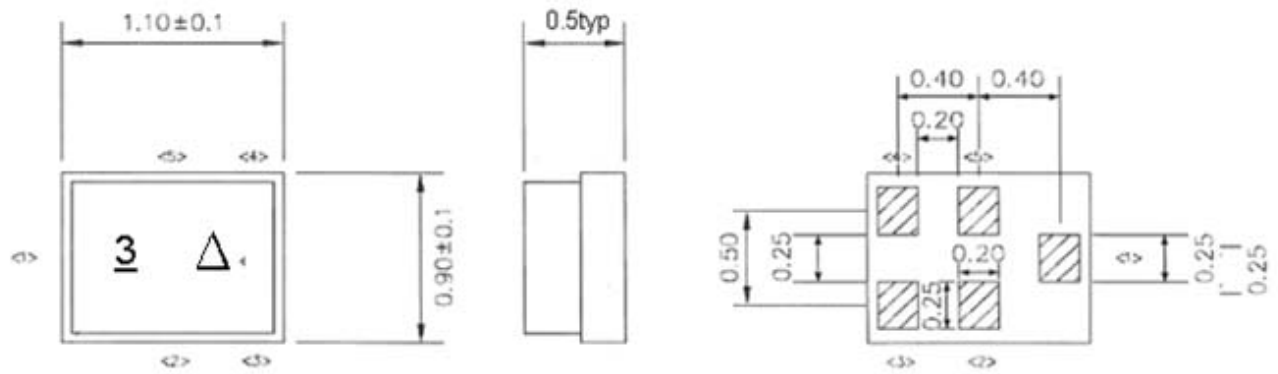
S21 response: (span 100MHz)



S11 & S22



D. OUTLINE DRAWING:



C: Input

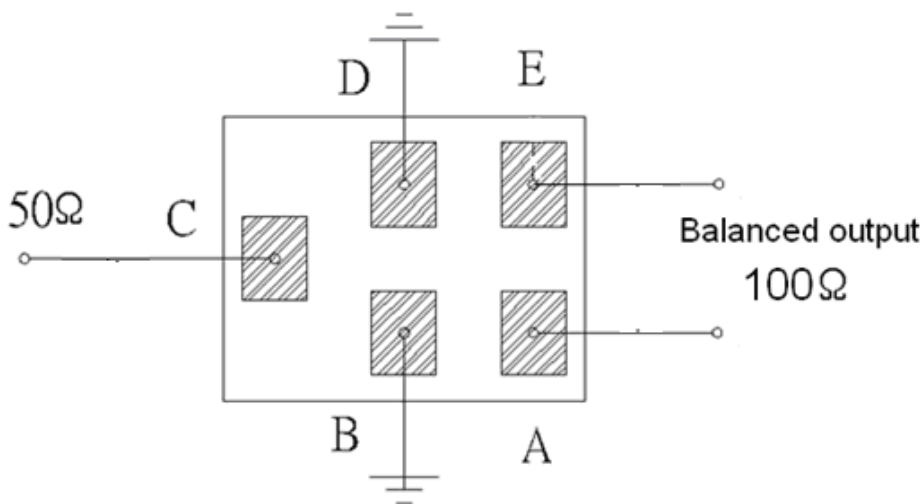
Δ : Data Code

A, E: Output

B, D: Ground

Unit: mm

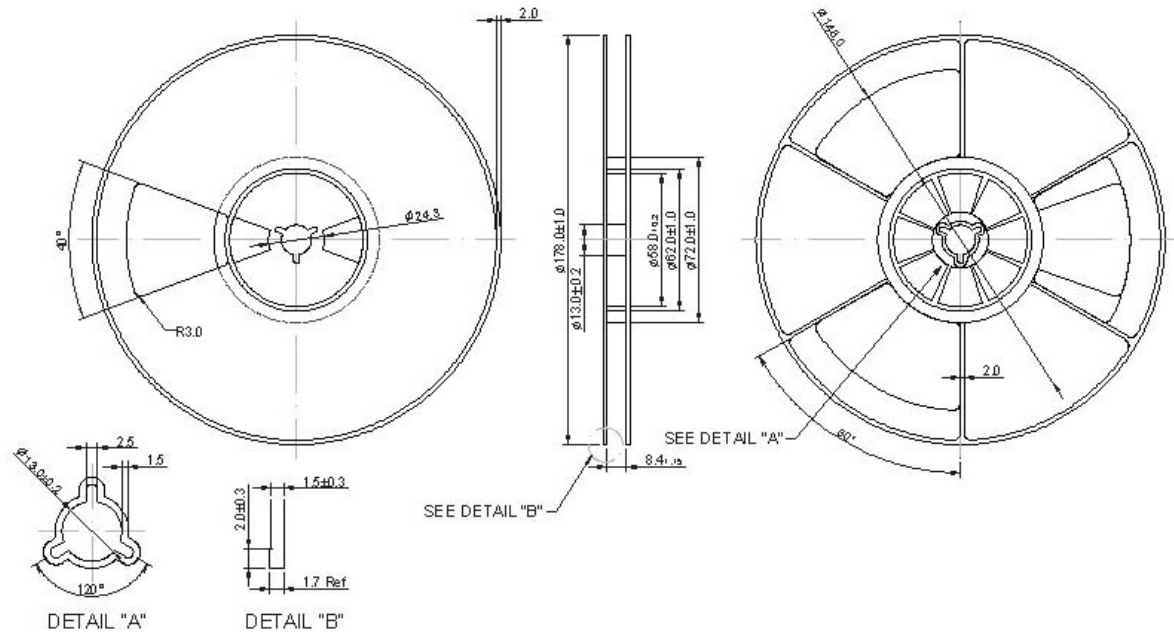
E. MEASUREMENT CIRCUIT:



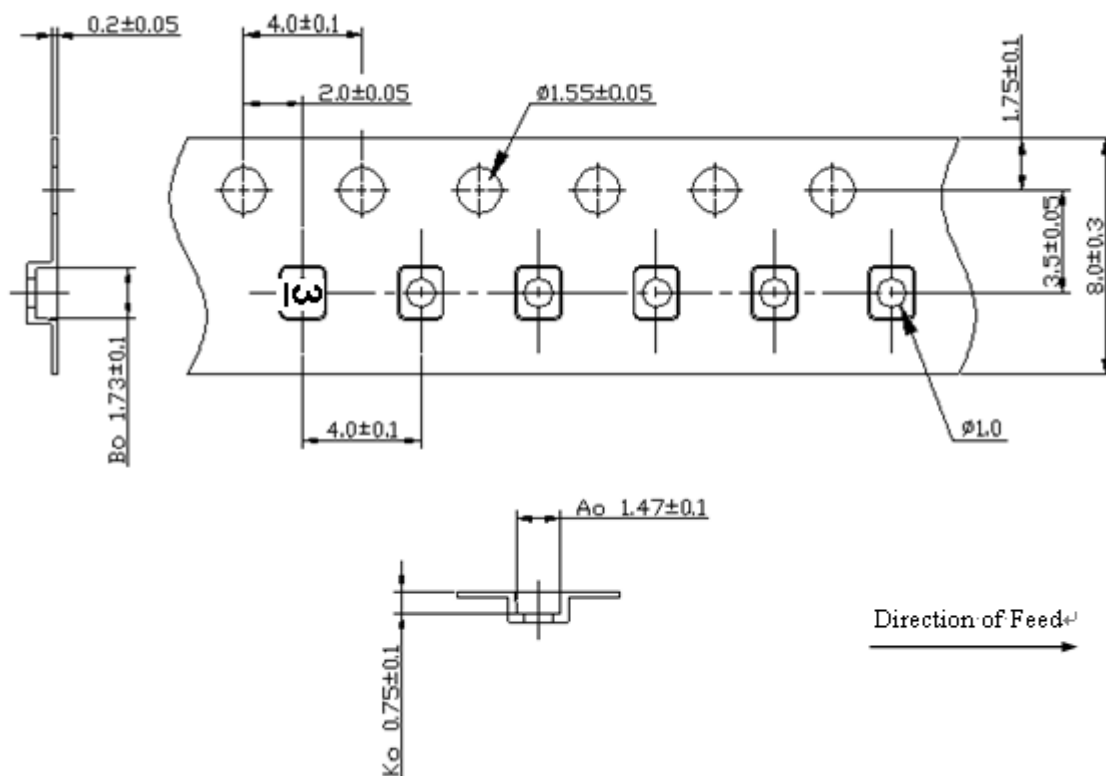
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

