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: Band7 Rx SAW Filter 2655 MHz SMD1.1X0.9 mm(BW=70MHz)

TST Parts No.: TA1847AM

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ V.J Fanchian

Approval by:_____ Andy Yu

Date:_____ 07/10/2020

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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Band7 Rx SAW Filter 2655 MHz SMD 1.1X0.9 mm (BW=70MHz)

MODEL NO.: TA1847AM REV. NO.:1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead-free soldering

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

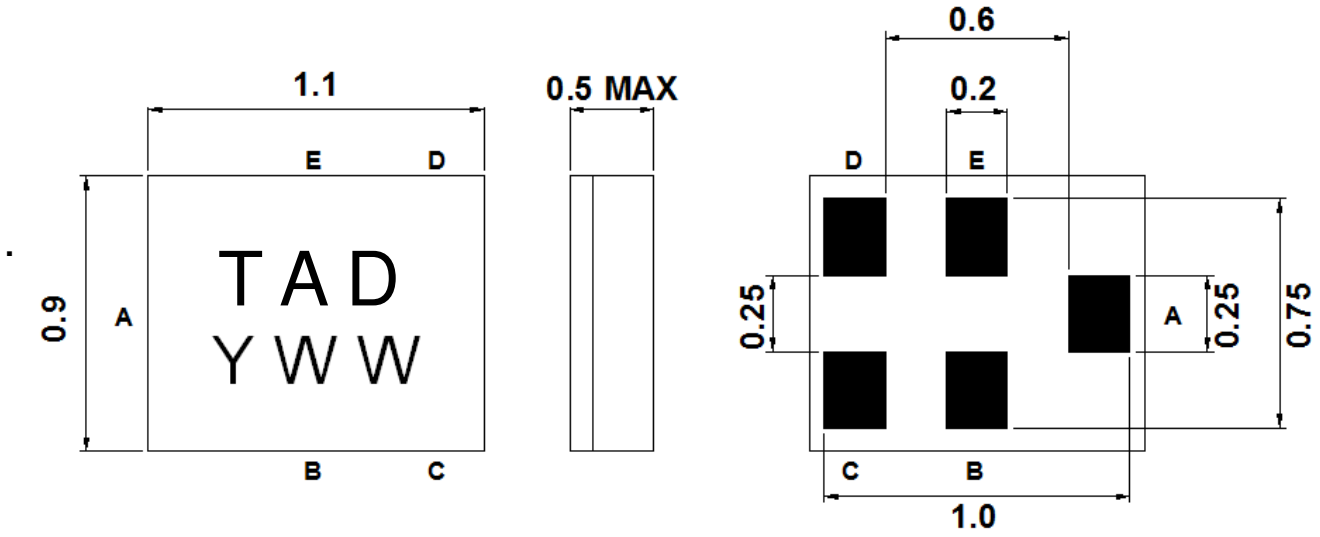
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs = 50Ω//5.1nH (Single)
Terminating load impedance: Z_L = 50Ω//5.1nH (Single)

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2655.0	-
Insertion Loss within 2620.0 ~ 2690.0 MHz	dB	-	2.4	3.0
Amplitude Ripple within 2620.0 ~ 2690.0 MHz	dB_{p-p}	-	1.2	2.0
Input VSWR within 2620.0 ~ 2690.0 MHz	-	-	2.1	2.3
Output VSWR within 2620.0 ~ 2690.0 MHz	-	-	2.1	2.3
Attenuation				
10 ~ 2400.0 MHz	dB	25	31	-
45.0 MHz	dB	50	80	-
2400.0 ~ 2500.0 MHz	dB	25	33	-
2500.0 ~ 2570.0 MHz	dB	33	38	-
2570.0 ~ 2600.0 MHz	dB	2	4	-
2775.0 ~ 6000.0 MHz	dB	25	33	-
7620.0 ~ 7830.0 MHz	dB	15	28	-
7860.0 ~ 8000.0 MHz	dB	15	31	-

Notes : (1) With Matching Network .

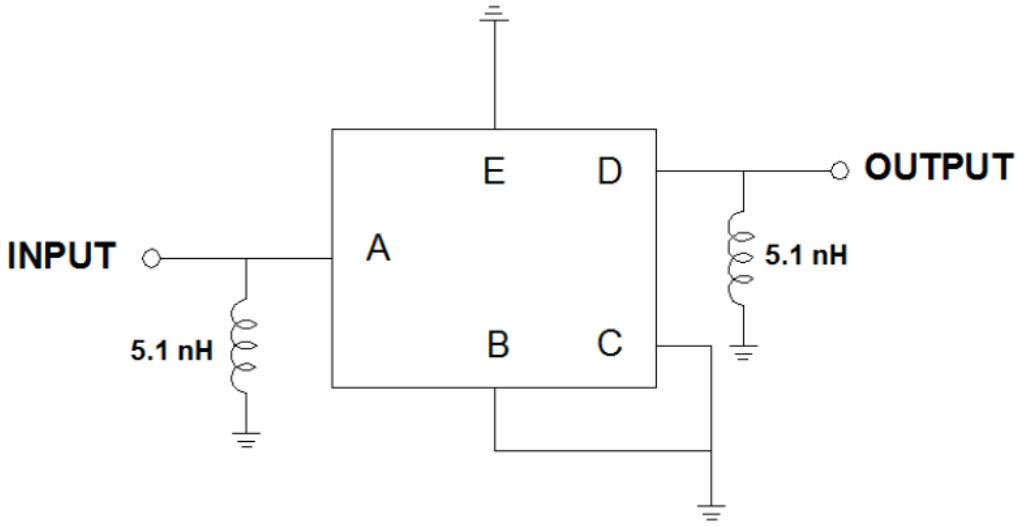
C.OUTLINE DRAWING:



Marking Descriptions	
AD	Series number
Y	Year Code (2020 → 0)
WW	Week Code (Week3 → 03)

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

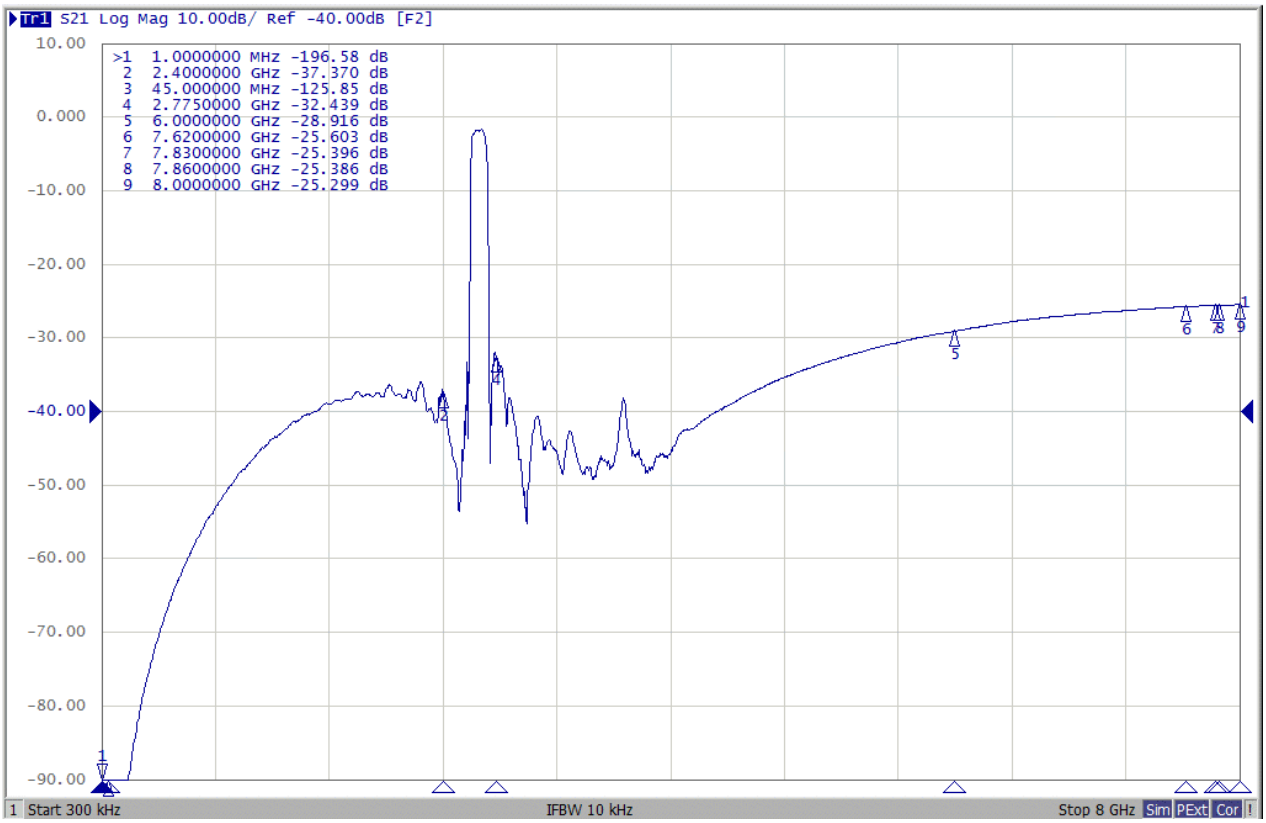
D. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50 Ω

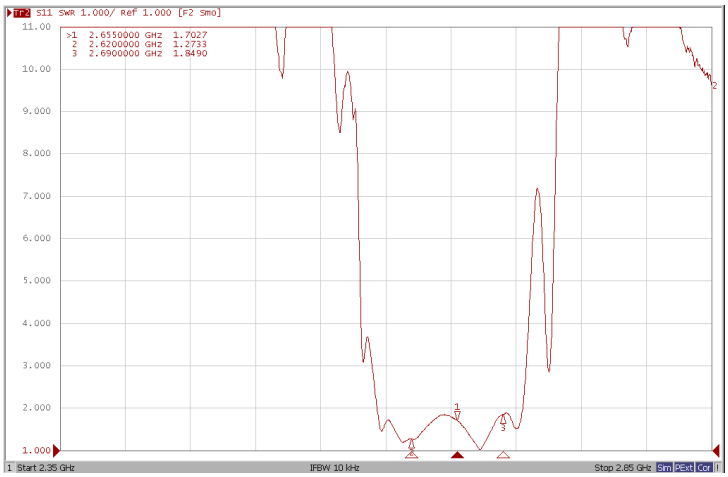
E. FREQUENCY CHARACTERISTICS:

Frequency Response

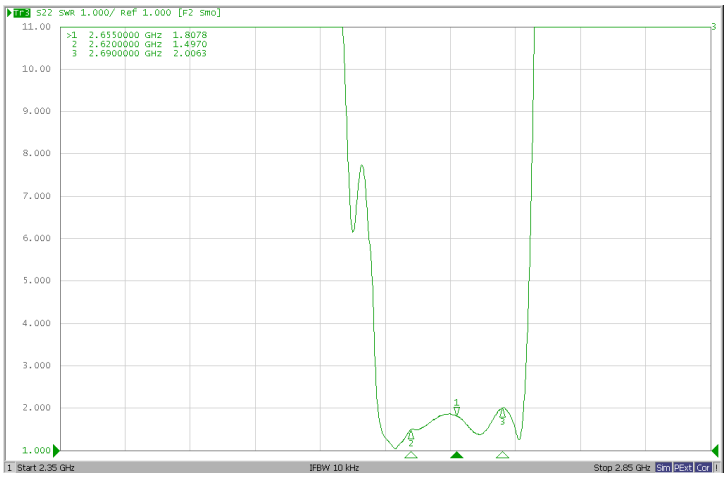


VSWR

S11

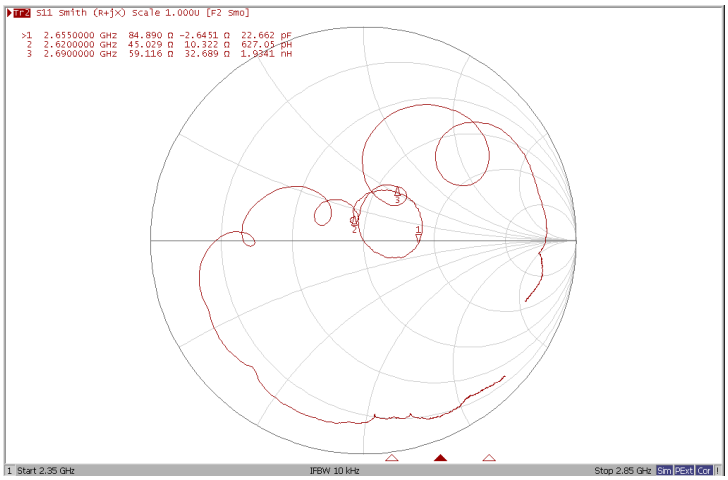


S22

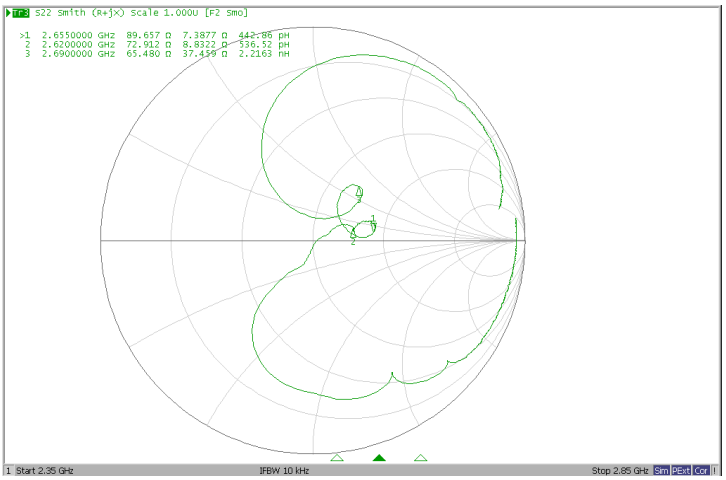


Smith Chart

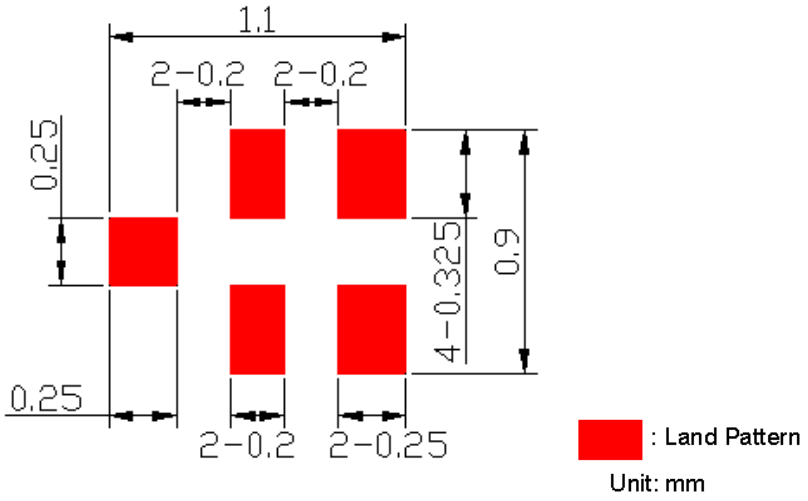
S11



S22

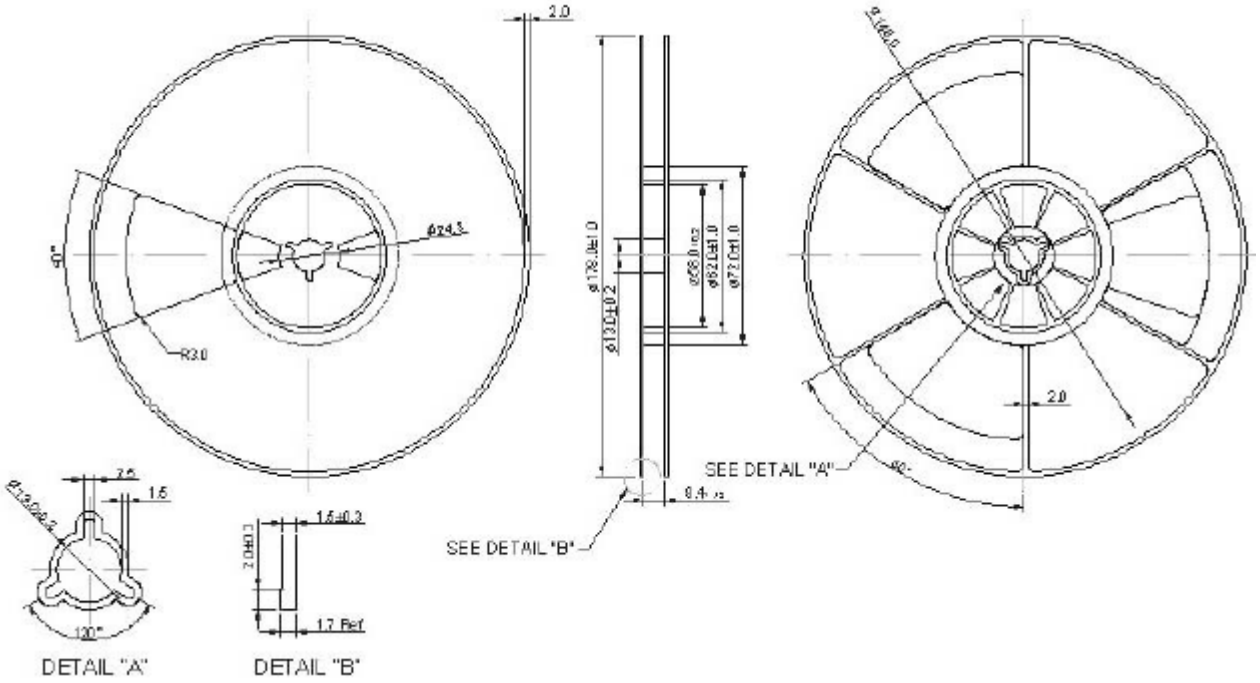


F. PCB Footprint:

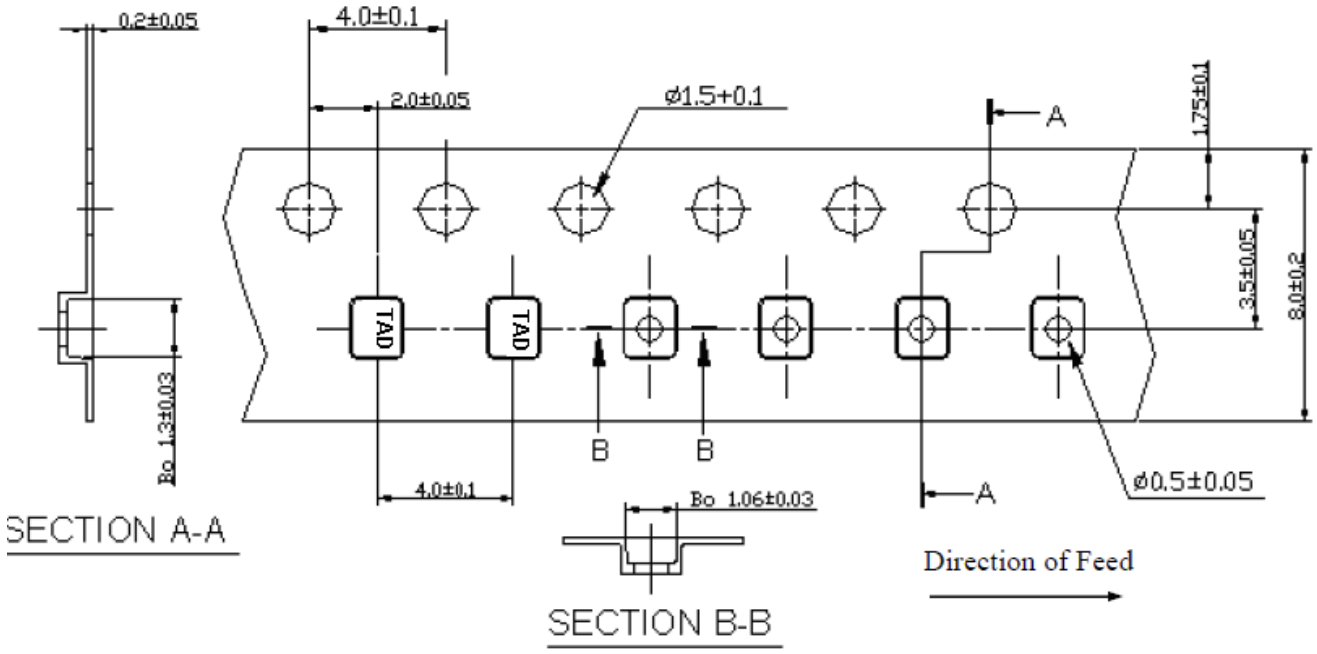


G. PACKING:

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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.