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Product Specifications Approval Sheet

Product Description: SAW Filter 868MHz 30MHz BW SMD 3.0x3.0 mm

TST Part No.: TA2646A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/05/13

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.

SAW Filter 868MHz 30MHz BW SMD 3.0x3.0 mm

MODEL NO.:TA2646A

REV 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1



Electrostatic Sensitive Device (ESD)

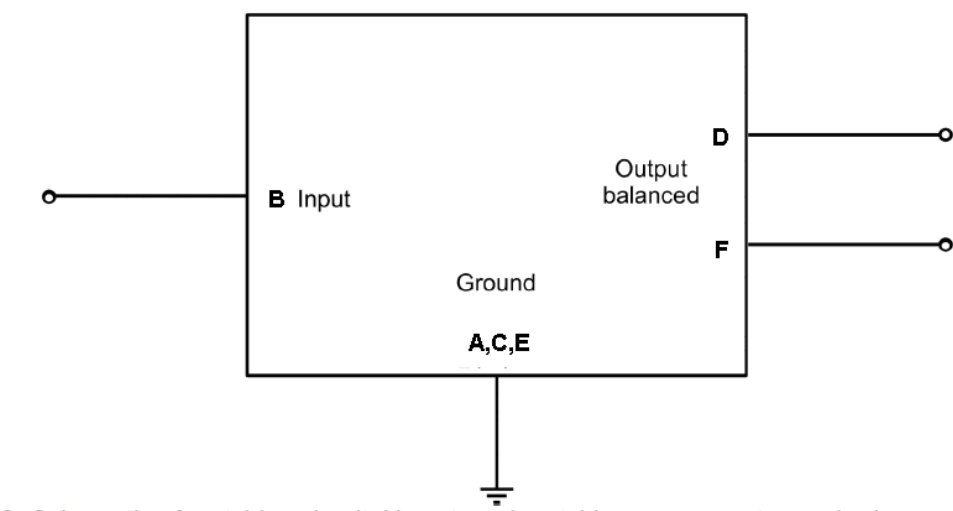
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

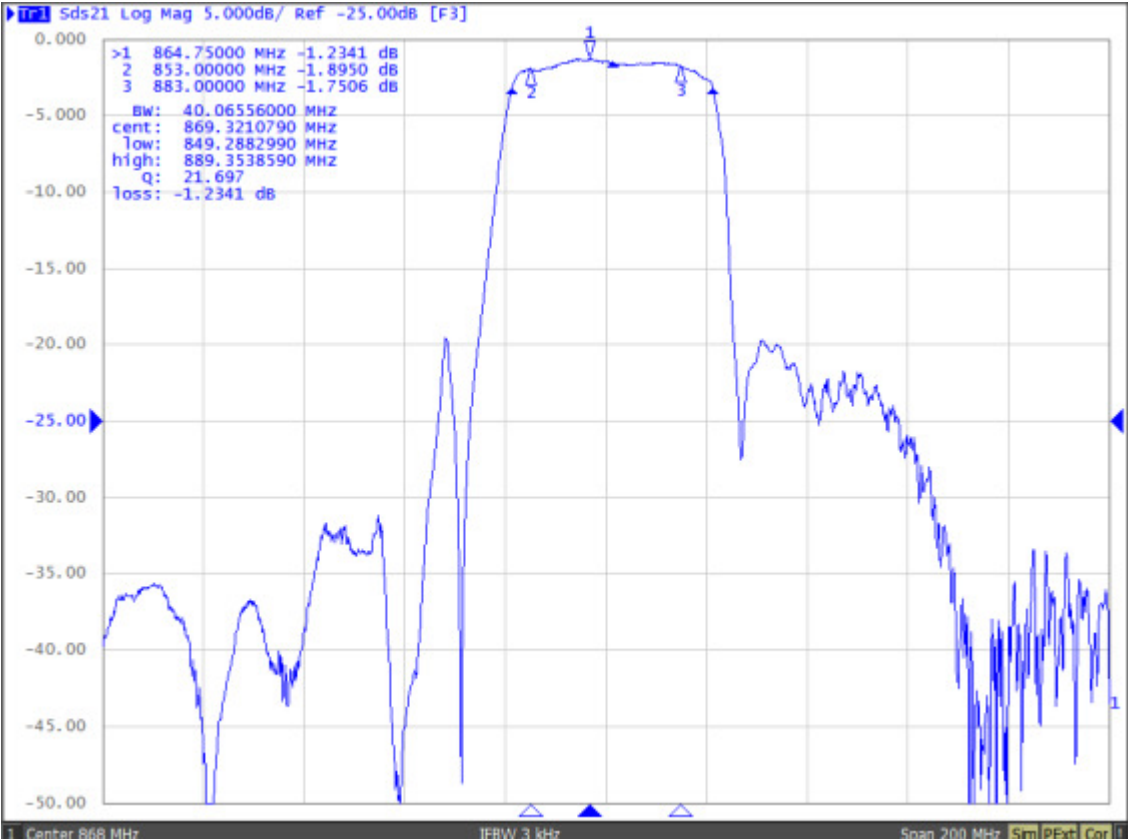
Terminating load impedance (balance) : $Z_L = 100 \Omega$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	868	-	-
Insertion Loss (853~883 MHz) IL	dB	-	2.0	3.0	-
VSWR (853~883 MHz)	dB	-	1.7	2.4	-
Amplitude ripple (853~883 MHz)	dB	-	1.0	2.0	-
Attenuation					
10 ~ 700 MHz	dB	35	40	-	-
700 ~ 770 MHz	dB	35	40	-	-
770 ~ 810 MHz	dB	30	35	-	-
810 ~ 830 MHz	dB	20	25	-	-
940 ~ 1020 MHz	dB	30	35	-	-
1020 ~ 1850 MHz	dB	22	27	-	-
1850 ~ 3000 MHz	dB	12	17	-	-
Package size	mm	SMD 3.0x3.0			-

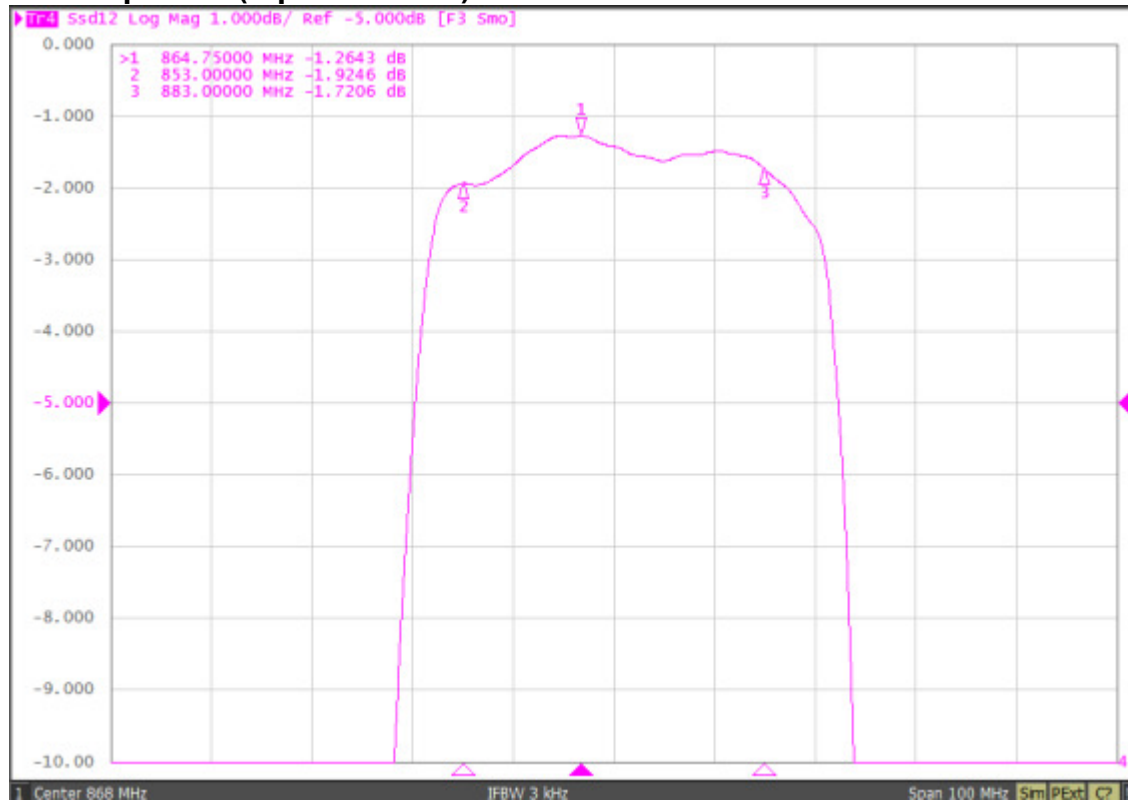
C. MEASUREMENT CIRCUIT:



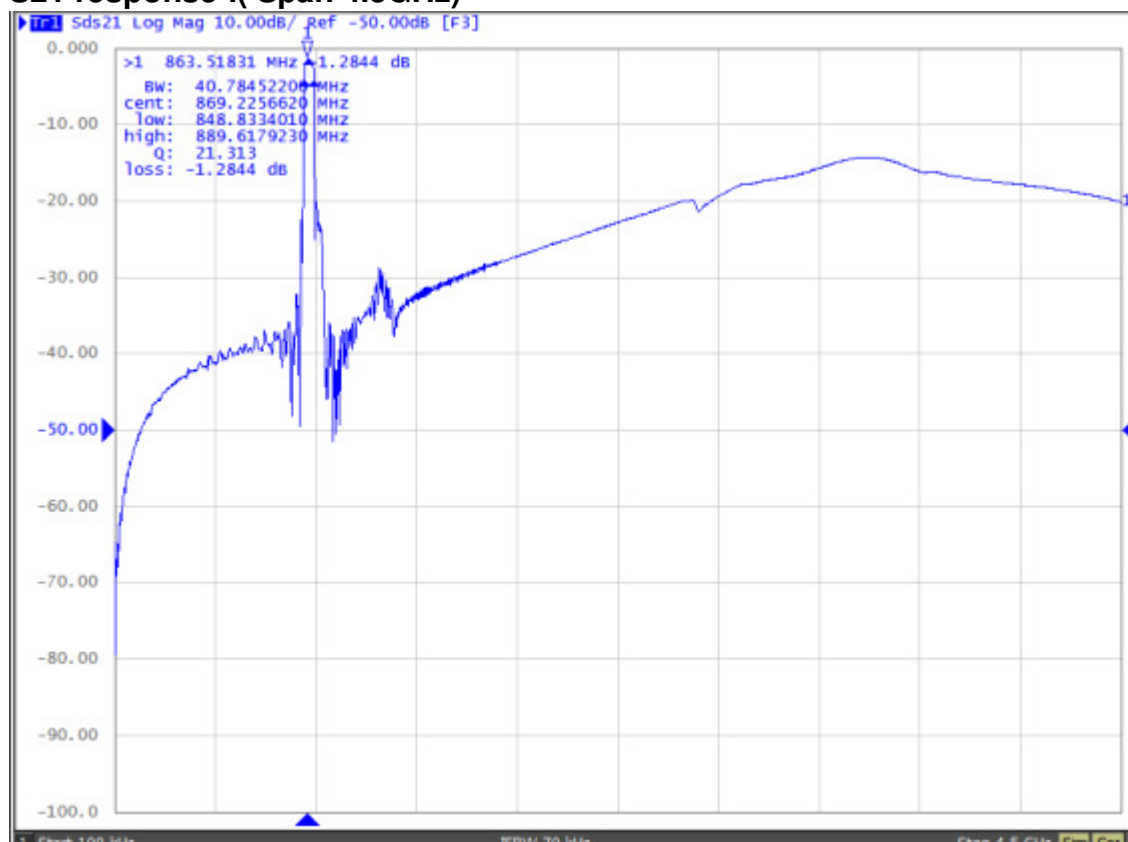
D. Frequency Characteristics: S21 response :(Span 200MHz)



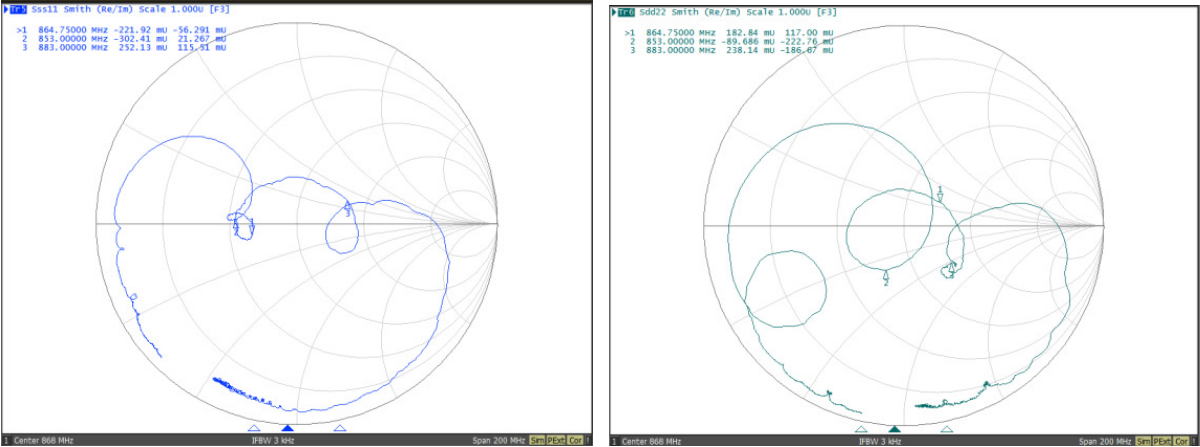
S21 response :(Span 100MHz)



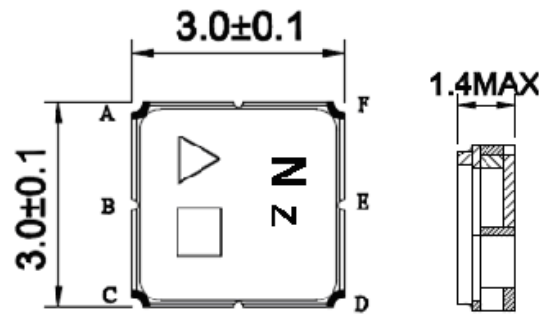
S21 response :(Span 4.5GHz)



S11/S22

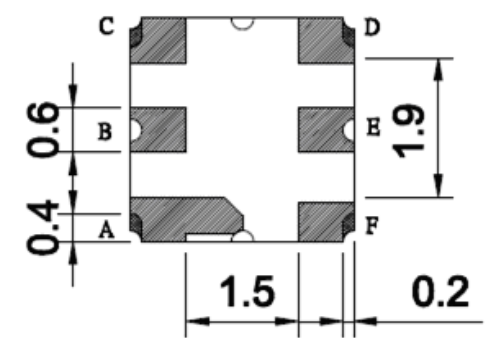
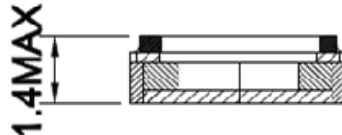


E.OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm | 5 mm



Pin No.	Symbol	Function
A	GND	Ground
B	IN	Input
C	GND	Ground
D	OUT	Output
E	GND	Ground
F	OUT	Output

☐ Data code : See the table

WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

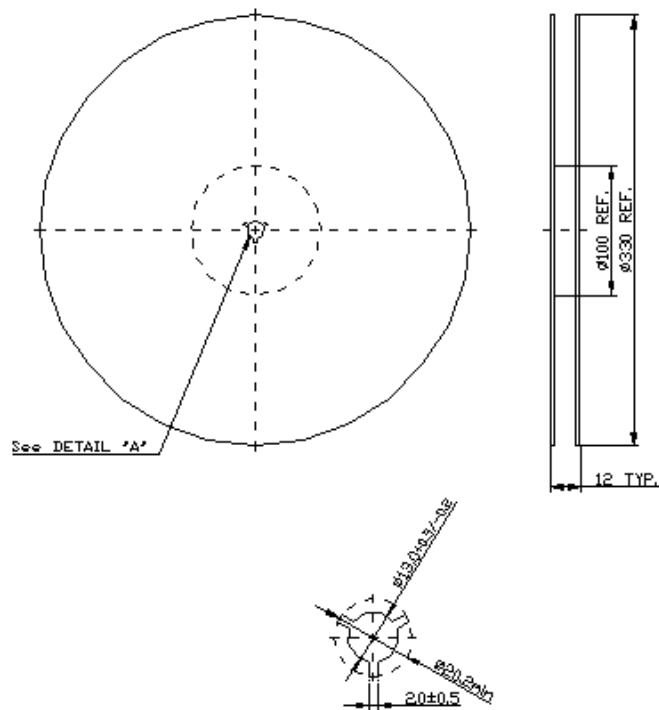
△ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

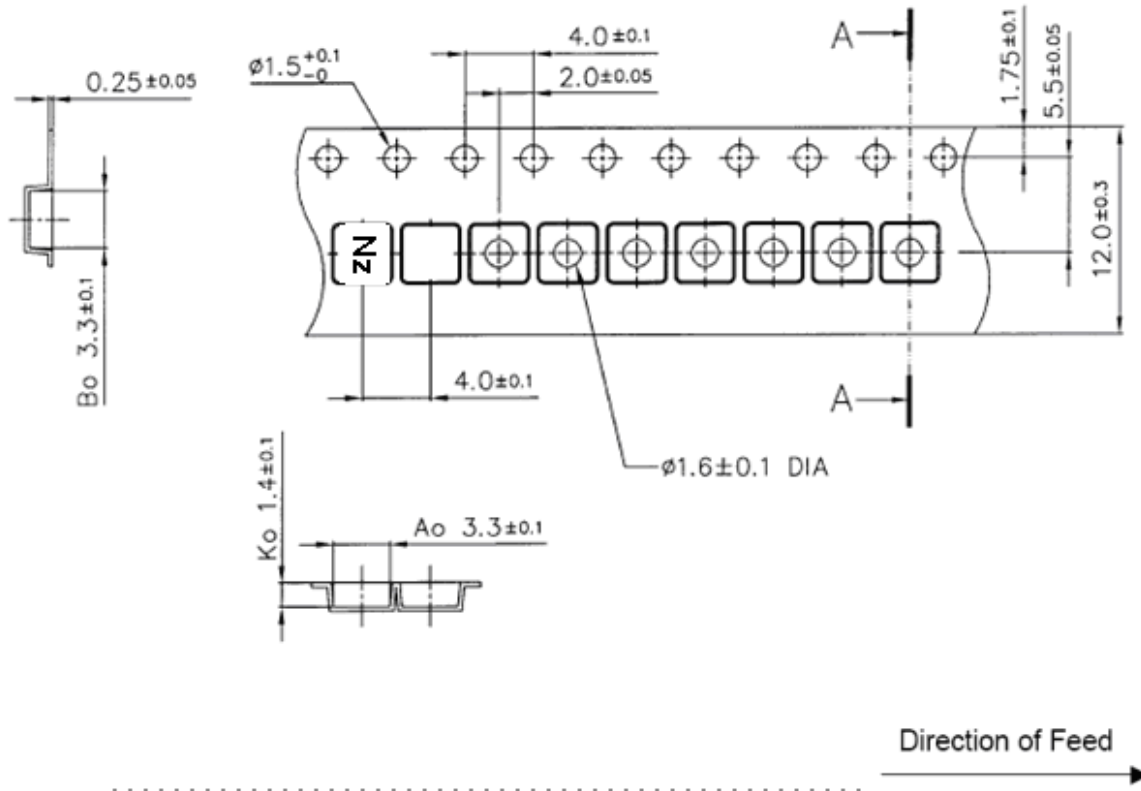
F. PACKING:

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

