



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 840.8MHz 1.5MHz BW SMD 3.0X3.0mm RF SAW Filter

TST Parts No.:TA2590A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 08 / 05 / 2019

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 840.8 MHz

MODEL NO.:TA2590A

REV. NO : 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage : 6V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

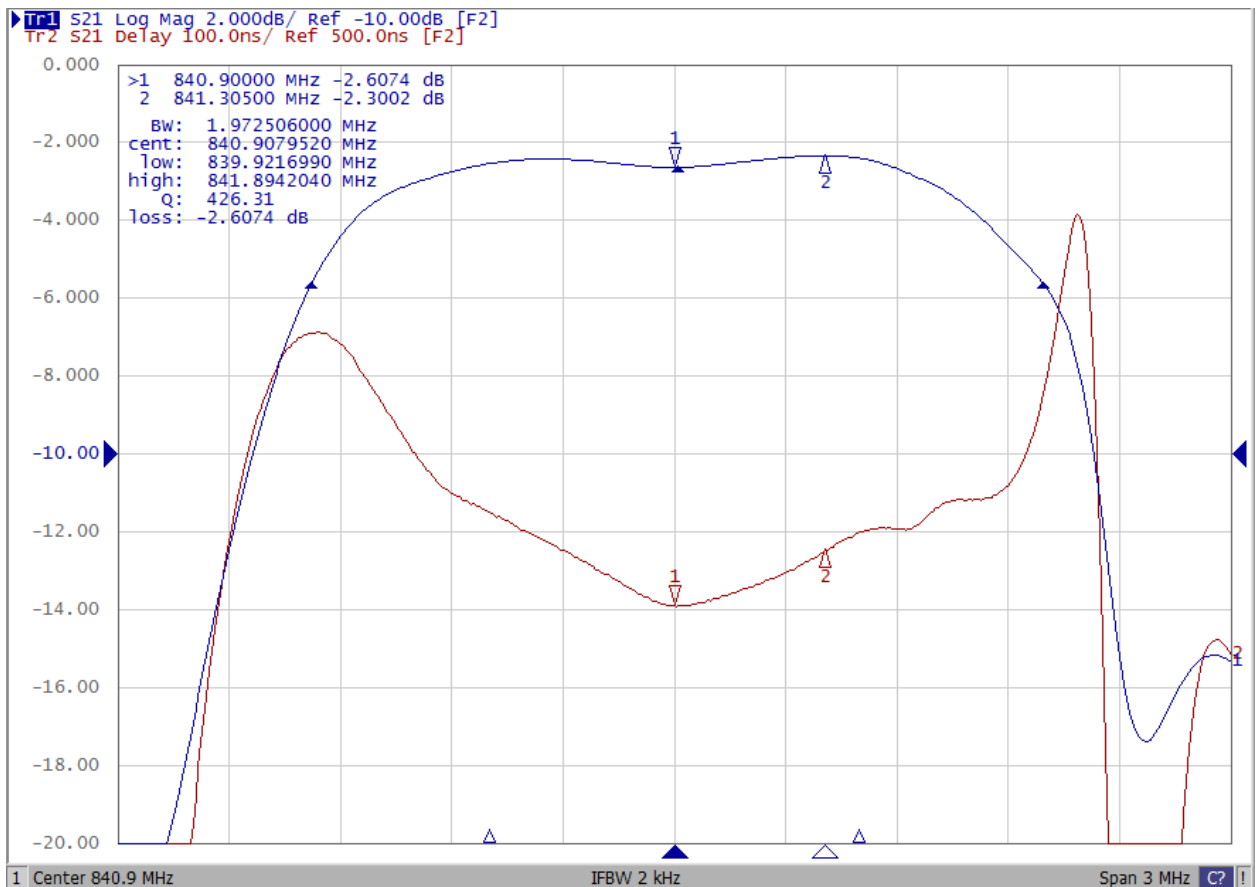
B. ELECTRICAL CHARACTERISTICS:

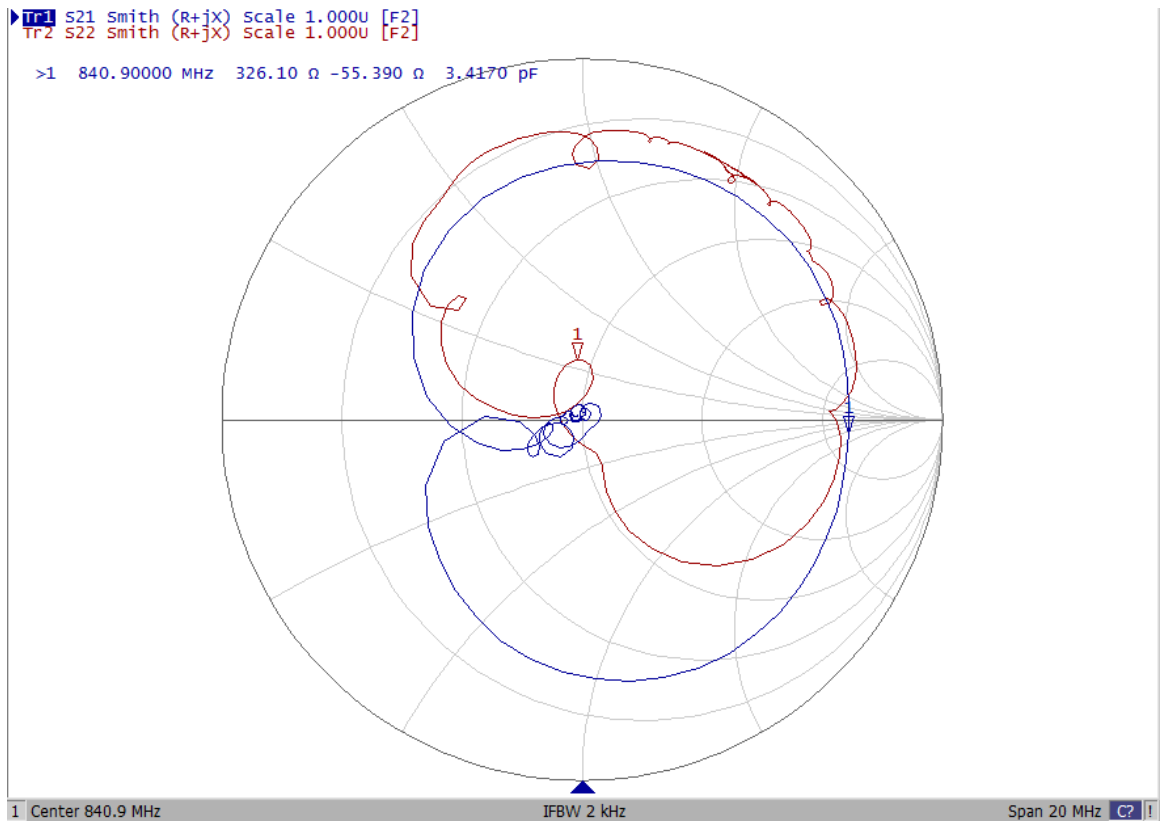
Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.	
Center frequency Fc	MHz	840.7	840.8	840.9	
3dB BW	MHz	1.5	1.9	-	
20dB BW	MHz	-	3.8	-	
Minimum insertion loss IL(min) Incl. loss of matching elements *1)	dB	-	2.3	3.7	
Passband (relative to IL_{min}) *1) 840.05 ~ 841.55 MHz	dB	-	0.3	3.0	
Attenuation (relative to IL_{min}) *1)					
15.000 ~ 758.80	MHz	dB	41	45	-
758.80 ~ 821.80	MHz	dB	34	38	-
821.80 ~ 828.80	MHz	dB	32	36	-
828.80 ~ 837.80	MHz	dB	16	25	-
839.00	MHz	dB	18	24	-
844.10 ~ 849.00	MHz	dB	16	22	-
849.00 ~ 866.40	MHz	dB	20	25	-
866.40 ~ 881.80	MHz	dB	36	39	-
881.80 ~ 1000.0	MHz	dB	39	42	-
1000.0 ~ 2000.0	MHz	dB	40	53	-
2000.0 ~ 2500.0	MHz	dB	55	67	-
Impedance at Fc,Input *1) $Z_{in} = R_{in} // C_{in}$	Z_s	Ω	485 Ω //1.5pF		
Impedance at Fc,Output *1) $Z_{out} = R_{out} // C_{out}$	Z_L	Ω	485 Ω //1.5pF		

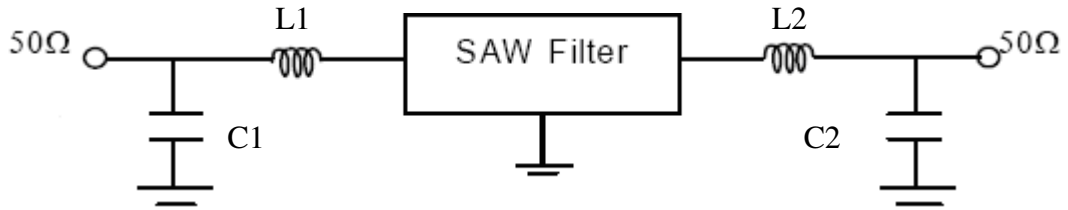
*1) : The matching circuit is real by actual passive components.
0805 Coilcraft CS series conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

C. FREQUENCY CHARACTERISTICS:



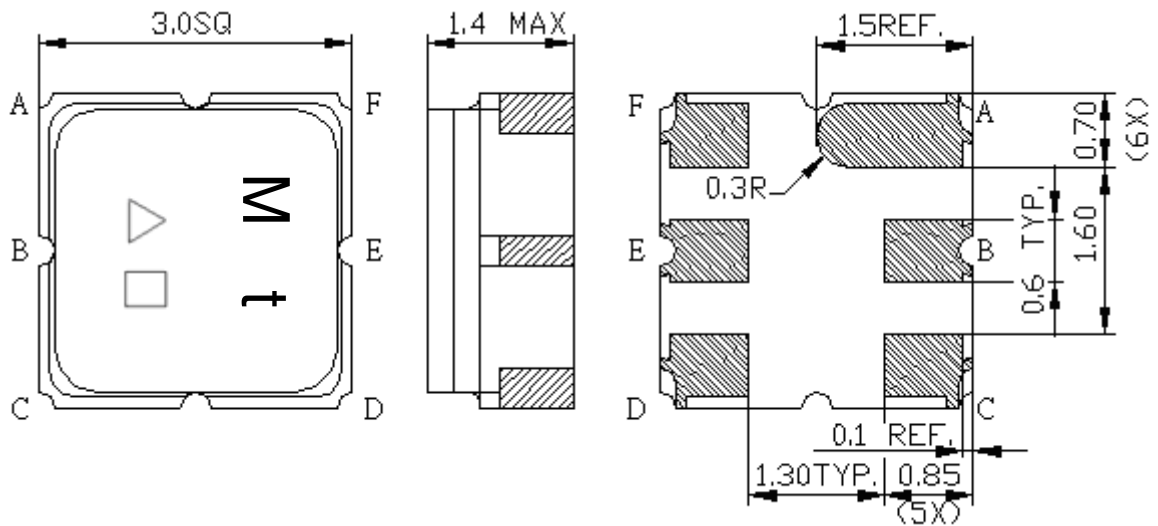


D. MEASUREMENT CIRCUIT:



L1=L2=27nH C1=C2=3pF

E. OUTLINE DRAWING:

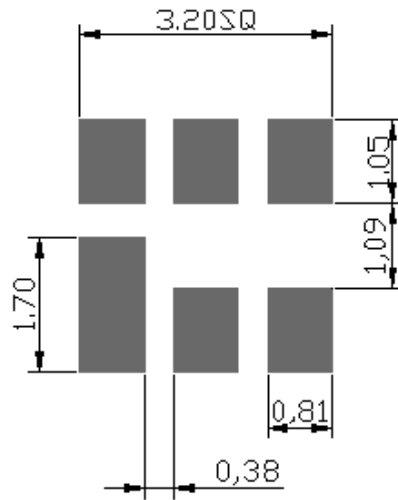


- B: Input
- E: Output
- A,C,D,F: Ground
- △: Year code: 1 for 2011, 2 for 2012...0 for 2020...
- : Date code:
- Unit: mm

□ : Data code : See the table

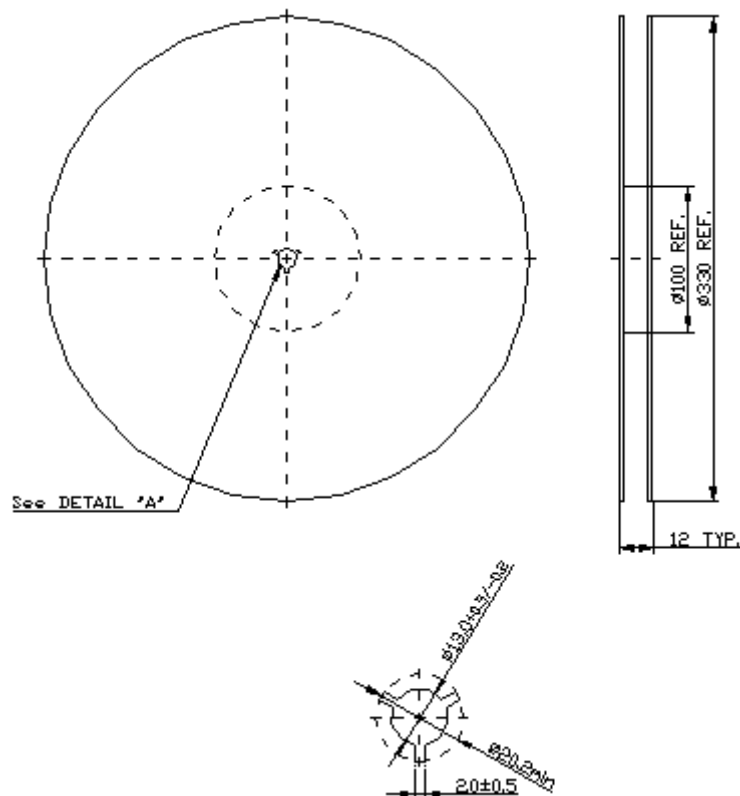
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. PCB FOOTPRINT:

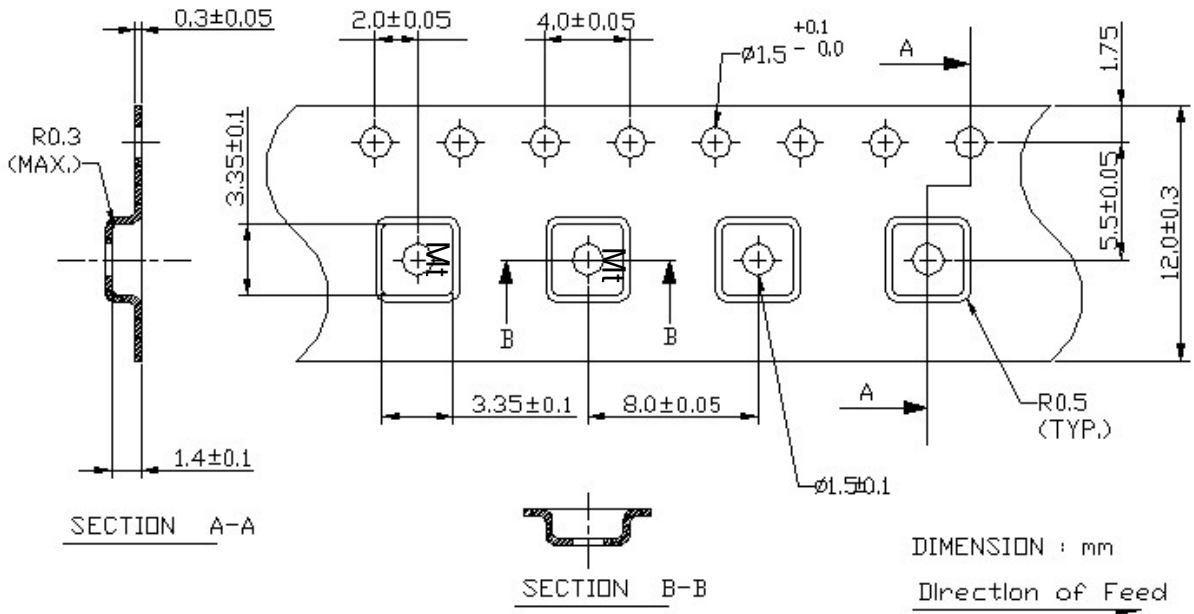


G. PACKING:

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°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.

