

Product Specifications Approval Sheet

Product Name: SAW Filter 1960MHz 60MHz BW Band 2 Rx SMD 1.1×0.9 mm

TST Parts No.: TA1870DA

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 10, 25, 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 change



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SAW Filter 1960 MHz 60MHz BW Band 2 SMD 1.1x0.9 mm

MODEL NO.:TA1870DA

REV.1.0

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +85 °C
2. Storage temperature range: -40 °C to +85 °C
3. Maximum Input Power: +10 dBm
4. Maximum DC Voltage: +/-0 V
5. Moisture Sensitivity Level: Level 3

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

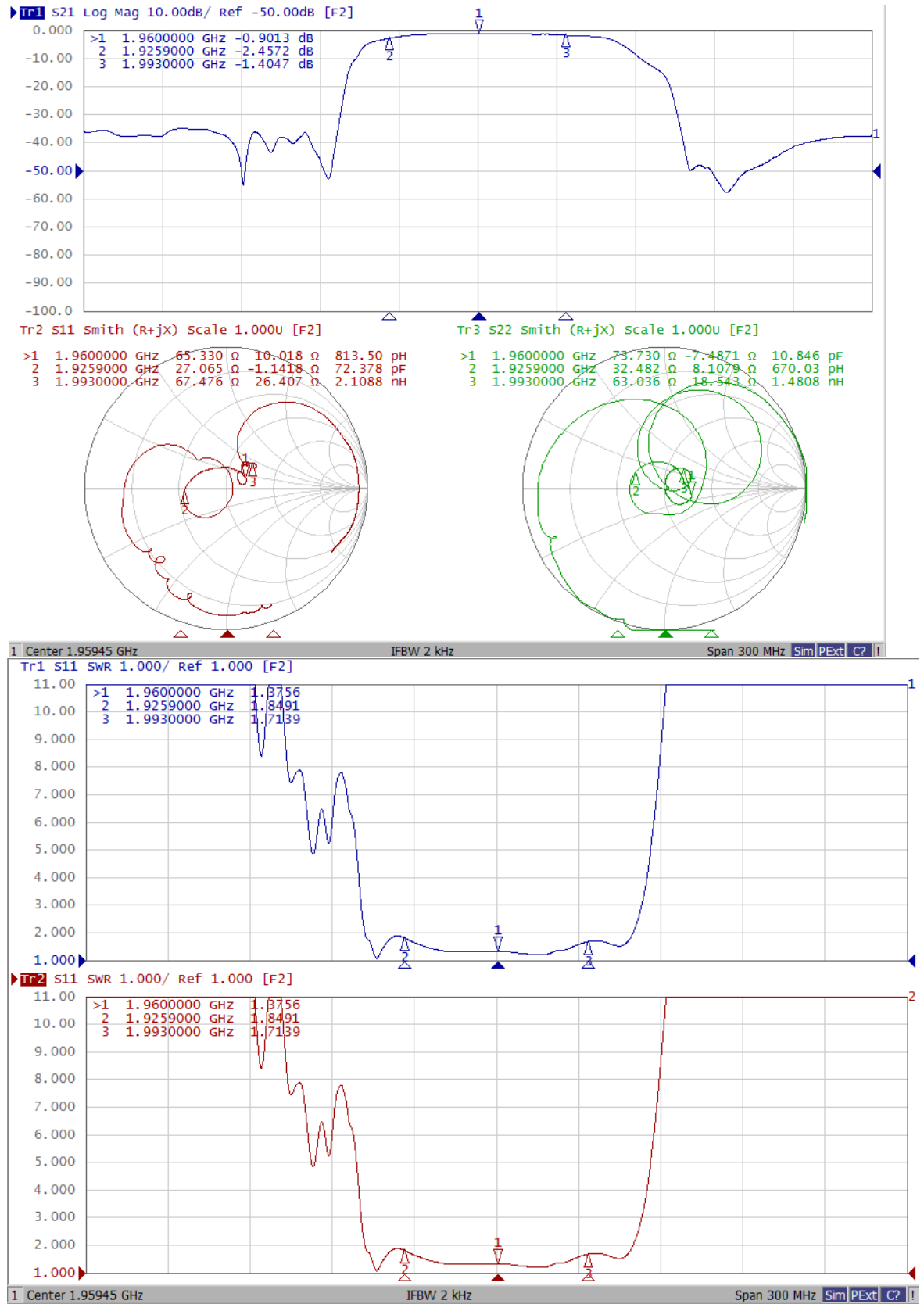
Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

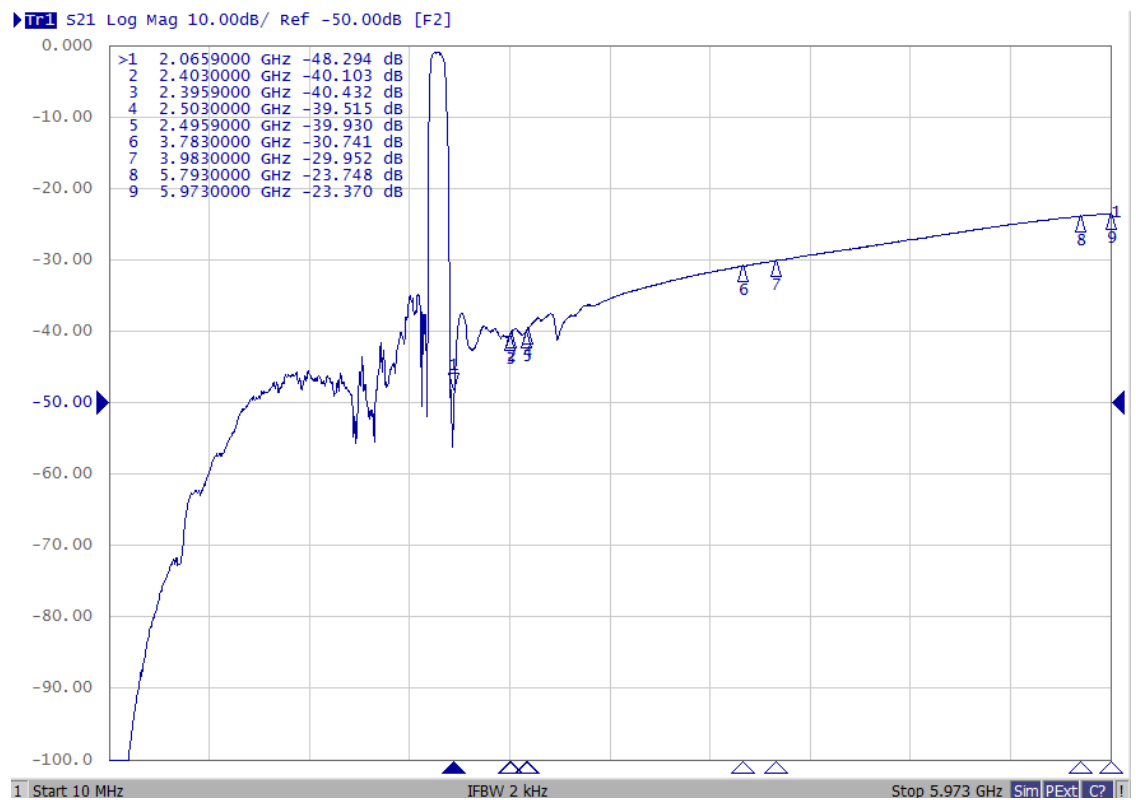
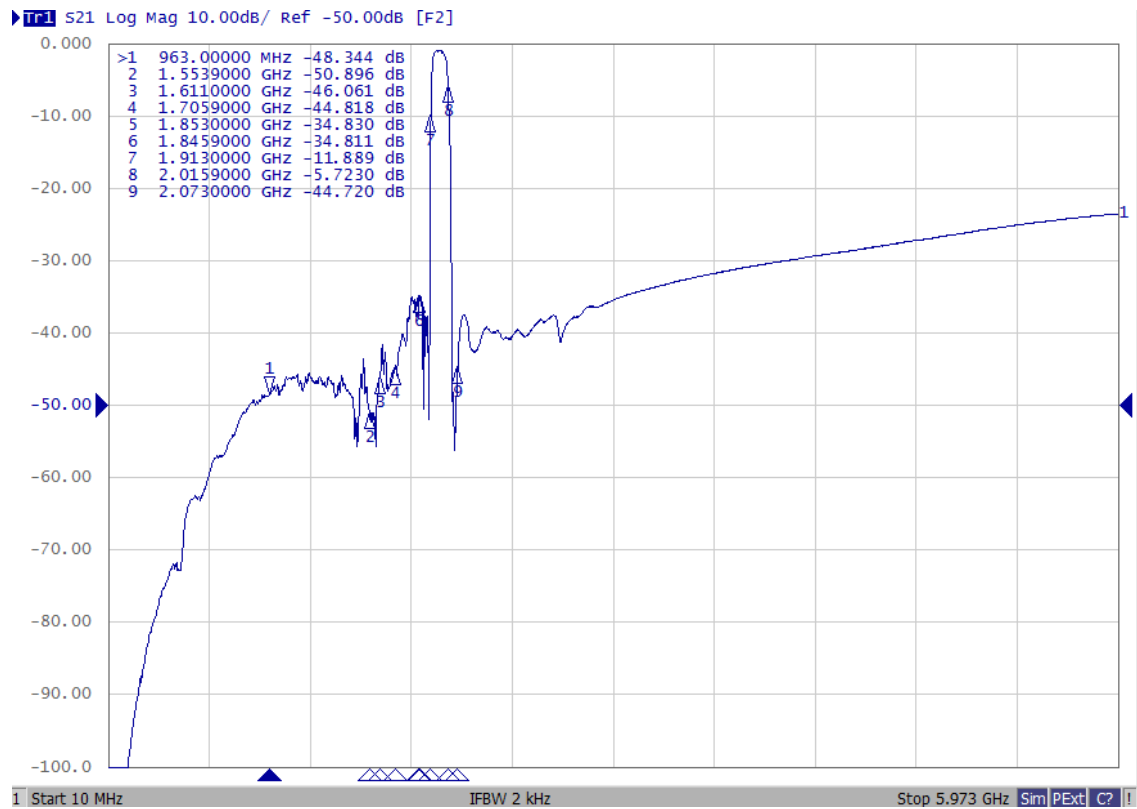
Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Parameters Description		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	1960	-
Insertion Loss	1930~1990 MHz	dB	-	2.9	4.0
Amplitude ripple	1930~1990 MHz	dBp-p	-	1.7	2.7
VSWR	1930~1990 MHz	-	-	1.8	2.3
Attenuation:					
DC~960 MHz		dB	40	48	-
1558~1608 MHz		dB	40	48	-
1710~1850 MHz		dB	33	38	-
1850~1910MHz		dB	10	12	-
2020~2070MHz		dB	3	5.5	-
2070~2400 MHz		dB	30	38	-
2400~2500 MHz		dB	35	42	-
2500~3780 MHz		dB	25	36	-
3780~3980 MHz		dB	25	35	-
3980~5790 MHz		dB	15	28	-
5790~5970 MHz		dB	15	28	-

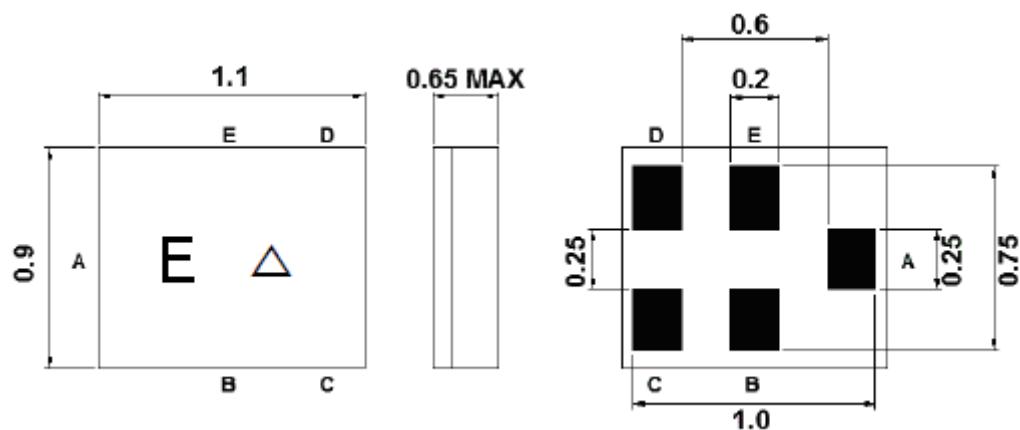
Notes : (1) With Matching Network .

C. FREQUENCY CHARACTERISTIC:





D.OUTLINE DRAWING:



Marking Descriptions	
E	Fixed Code
△	Date Code(Year+Month)

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

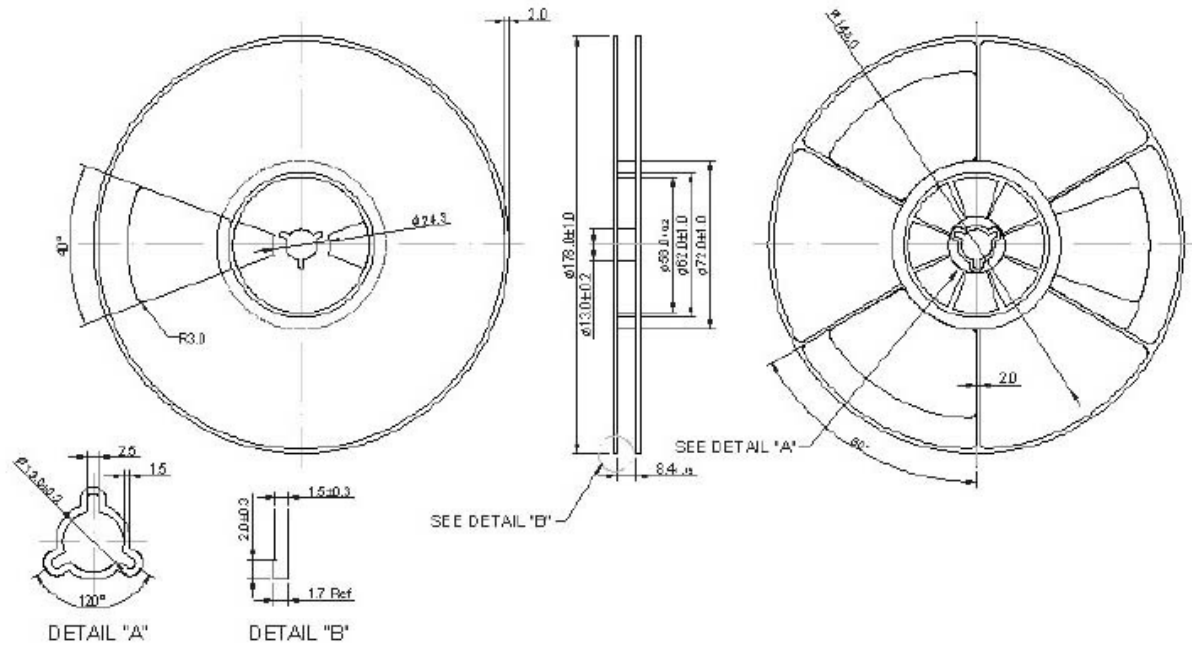
Date Code (year+month)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

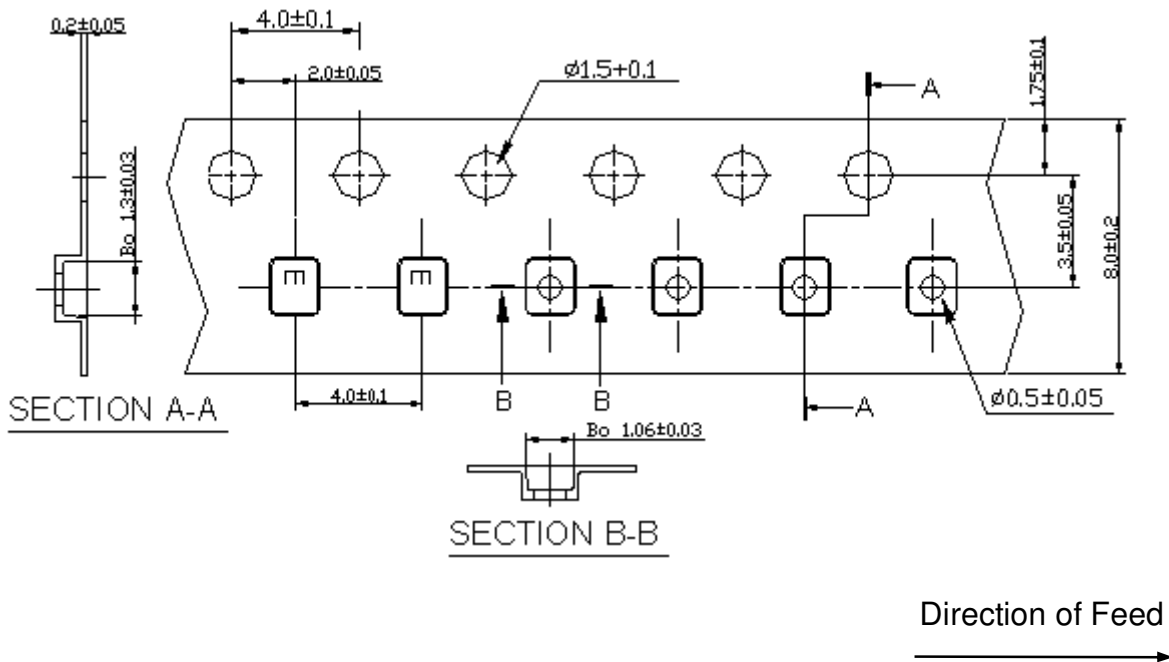
E. MEASUREMENT CIRCUIT:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C}+0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

