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Product Specifications Approval Sheet

Product Name: SAW Rx Filter 881.5MHz LTE Band 5 Rx SMD 1.1x0.9

TST Parts No.: TA1811DA

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/08/19

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

SAW Rx Filter 881.5MHz LTE Band 5 Rx SMD 1.1x0.9 (25MHz BW)

MODEL NO.: TA1811DA

REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 3

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)
B. ELECTRICAL CHARACTERISTICS:

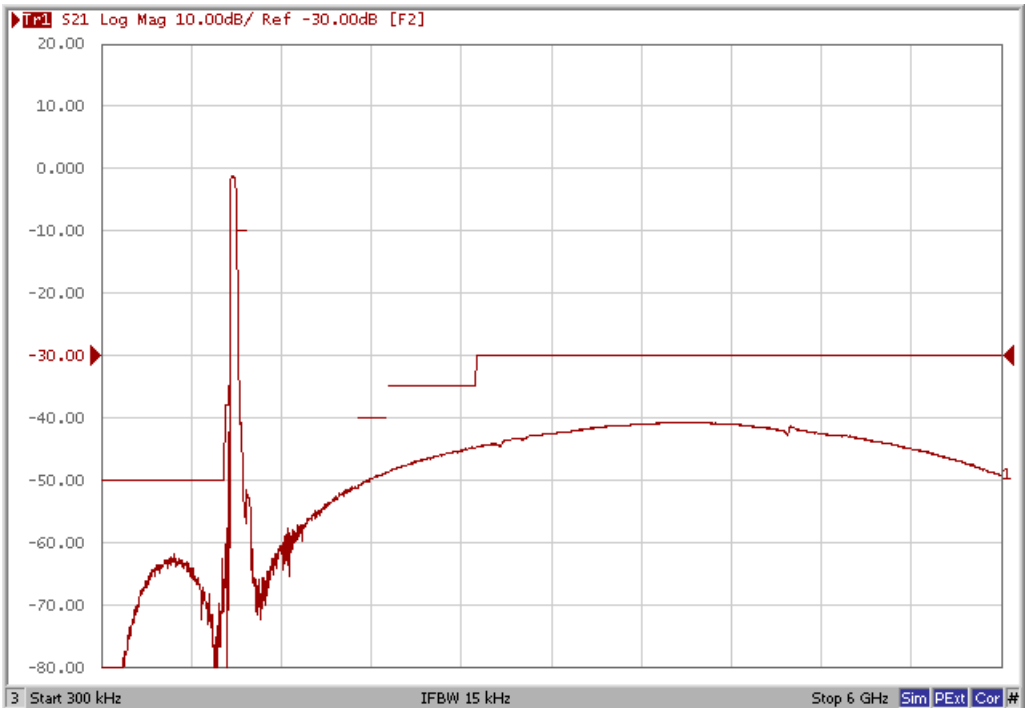
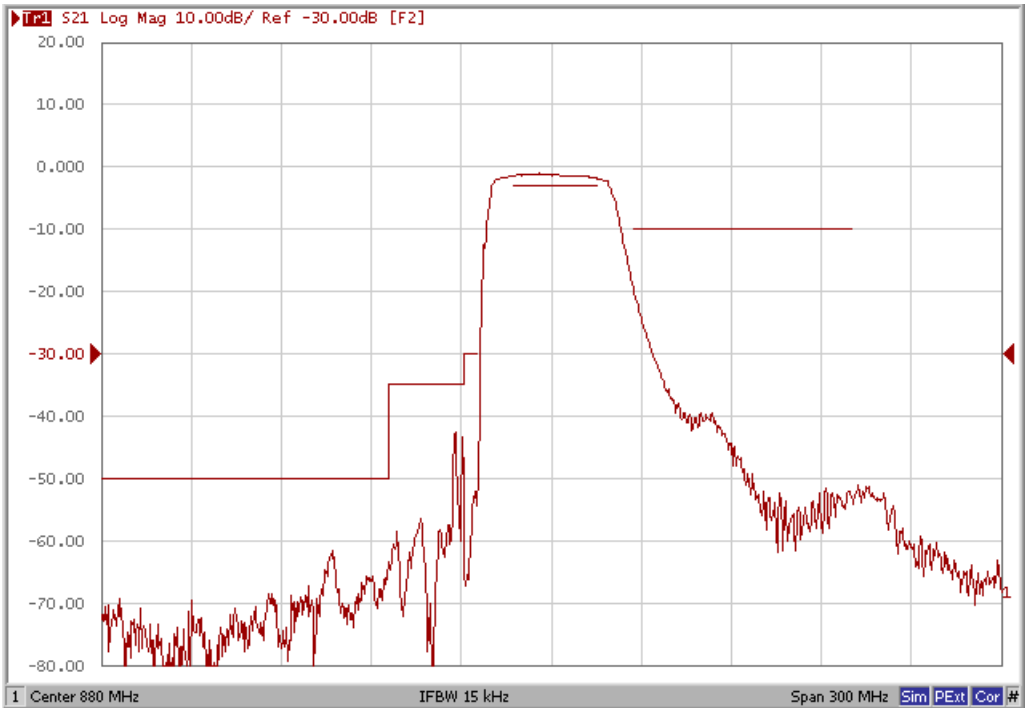
Source Impedance (single ended): 50Ω

Load Impedance (single ended): 50Ω

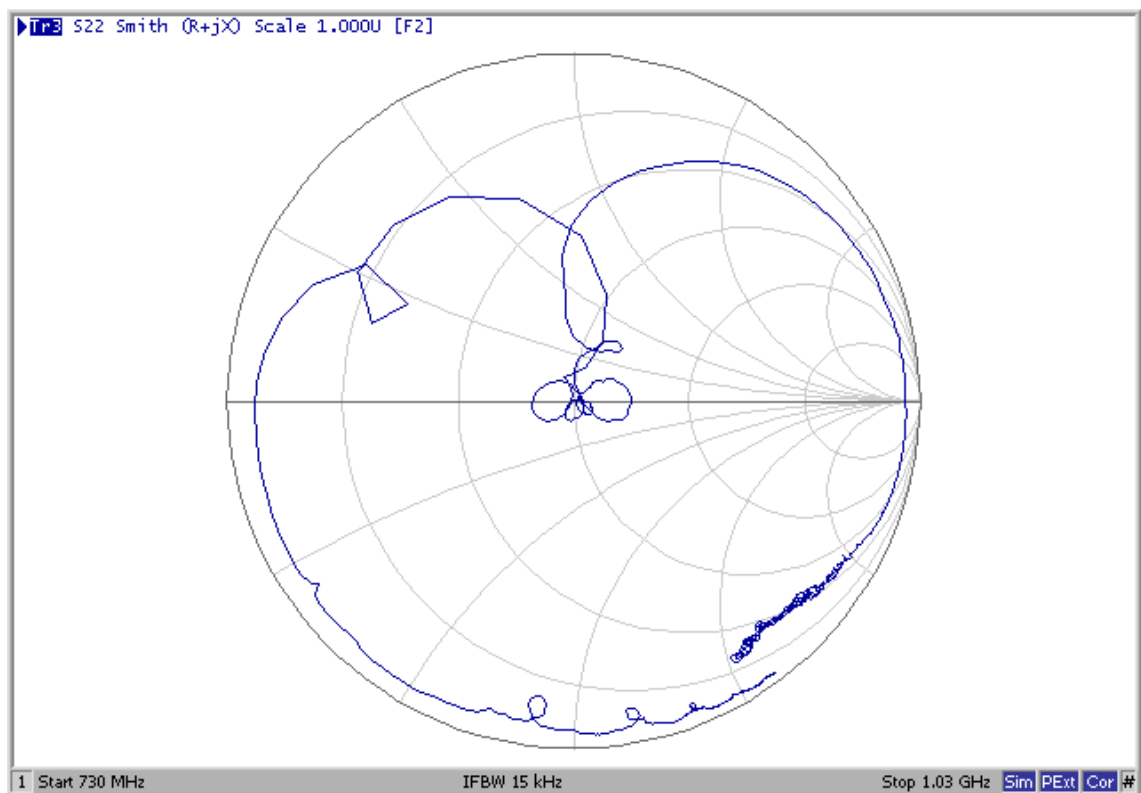
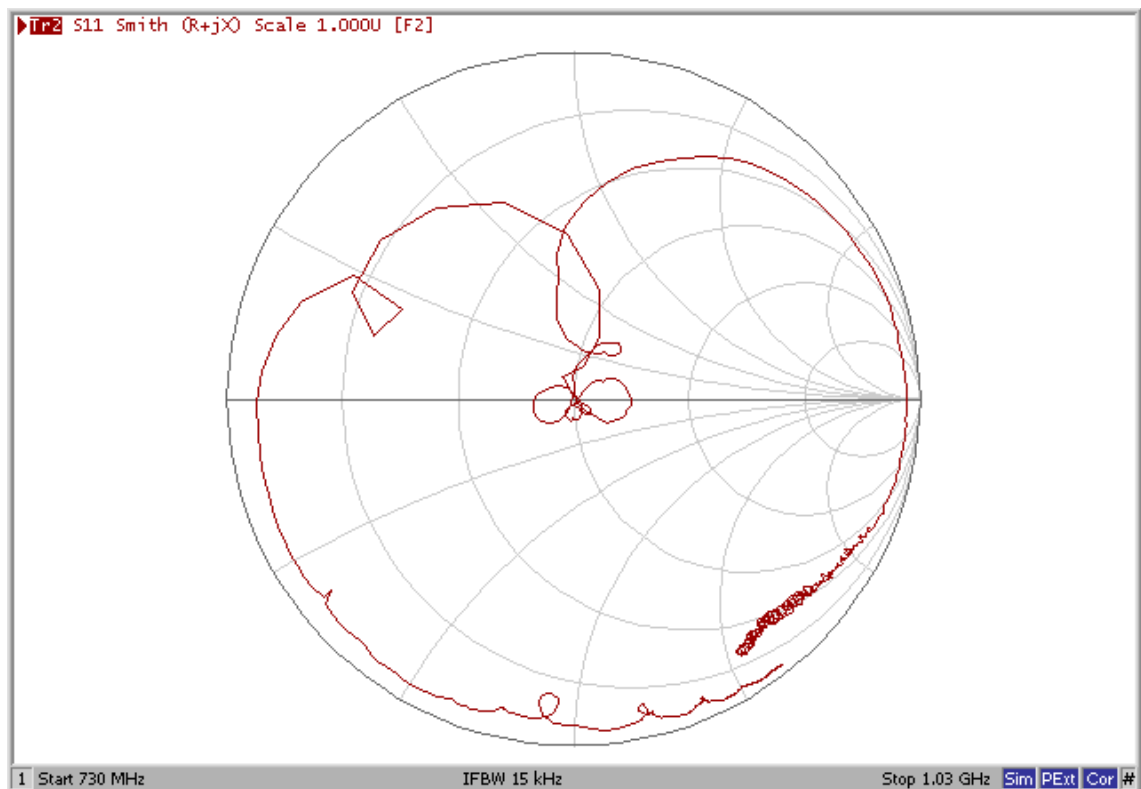
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	881.5	-
Insertion Loss within 869.0 ~ 894.0 MHz	dB	-	1.7	3.0
Amplitude Ripple within 869.0 ~ 894.0 MHz	dB _{p-p}	-	0.6	1.8
Input VSWR within 869.0 ~ 894.0 MHz	-	-	1.4	2.1
Output VSWR within 869.0 ~ 894.0 MHz			1.4	2.1
Attenuation:				
1.0~ 824.0 MHz	dB	50	62	-
824.0 ~ 849.0 MHz	dB	35	42	-
849.0 ~ 854.0 MHz	dB	30	46	-
909.0 ~ 979.0 MHz	dB	10	22	-
1710.0 ~ 1910.0 MHz	dB	40	48	-
1920.0 ~ 2500.0 MHz	dB	35	44	-
2500.0 ~ 6000.0 MHz	dB	30	40	-

C. Frequency Characteristics :

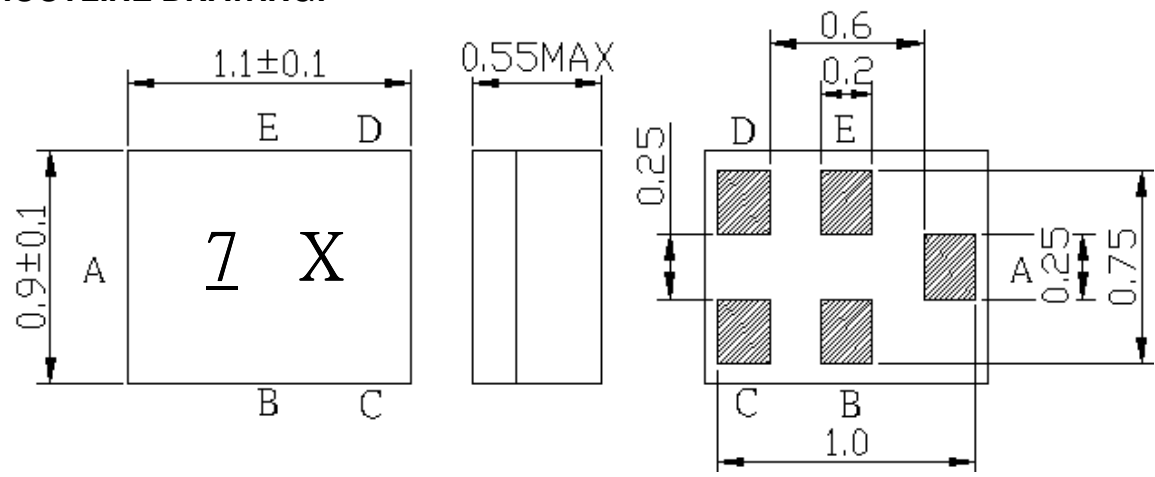
Frequency Response



Reflective Characteristic



D.OUTLINE DRAWING:



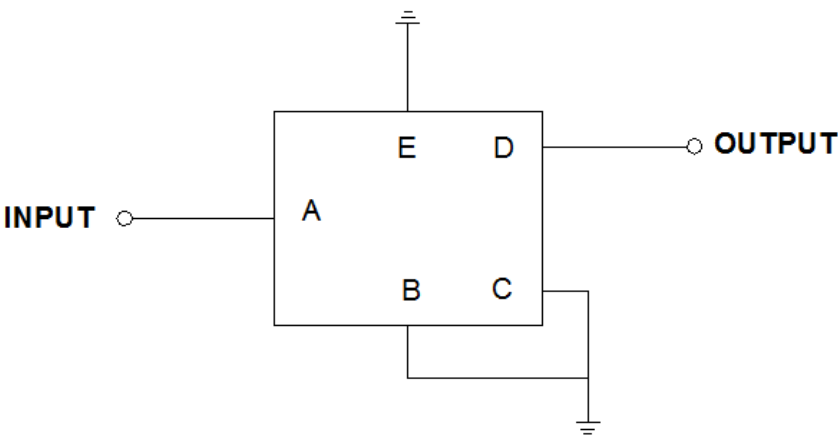
Marking Descriptions	
<u>Z</u> (Underline)	Series Number
X	Date Code(Year+Month)

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

Date Code (year+month)

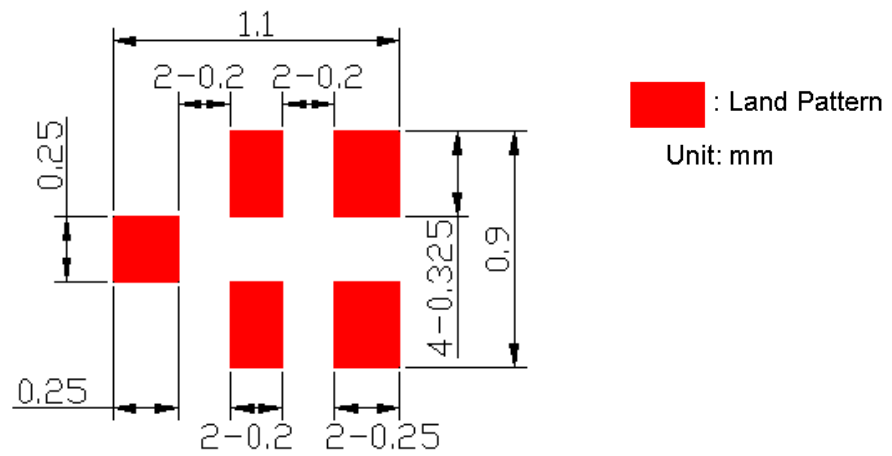
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N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



Source & Load Impedance: 50

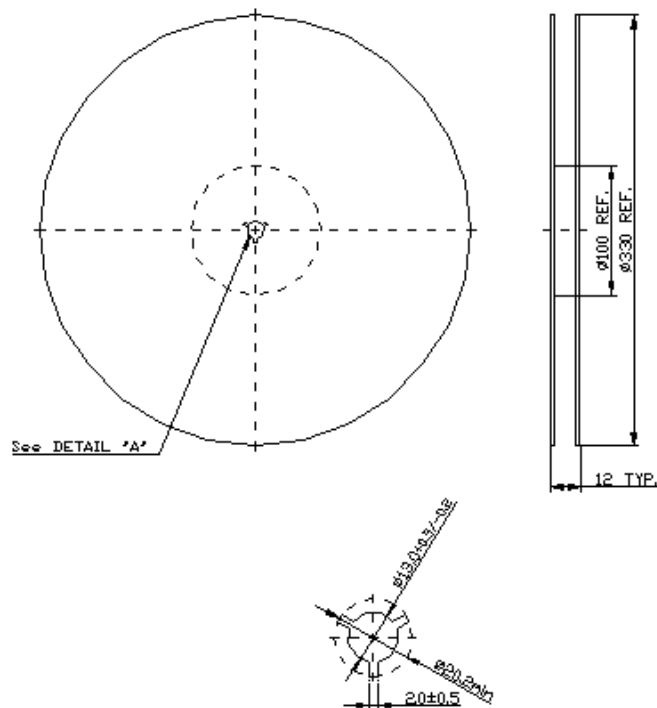
F. PCB Footprint :



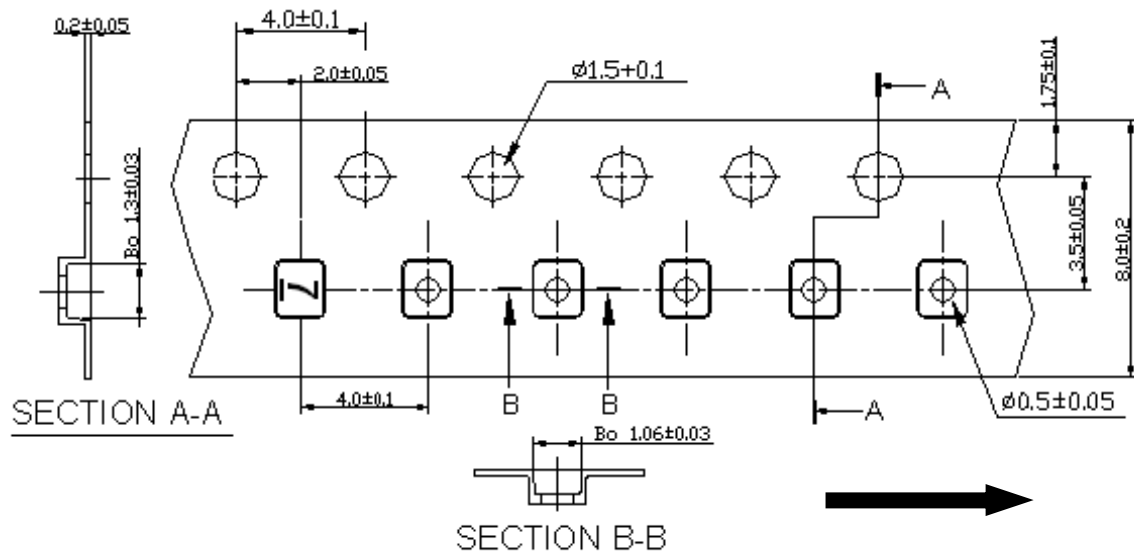
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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.

