



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 881.5MHz Band 5 Rx SMD 1.1×0.9 mm (BW=25 MHz)

TST Parts No.: TA1690B

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/08/13

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 change



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SAW Filter 881.5MHz Band 5 Rx SMD 1.1×0.9 mm (BW=25 MHz)

MODEL NO.: TA1690B

REV. No.: 1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 15 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:

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

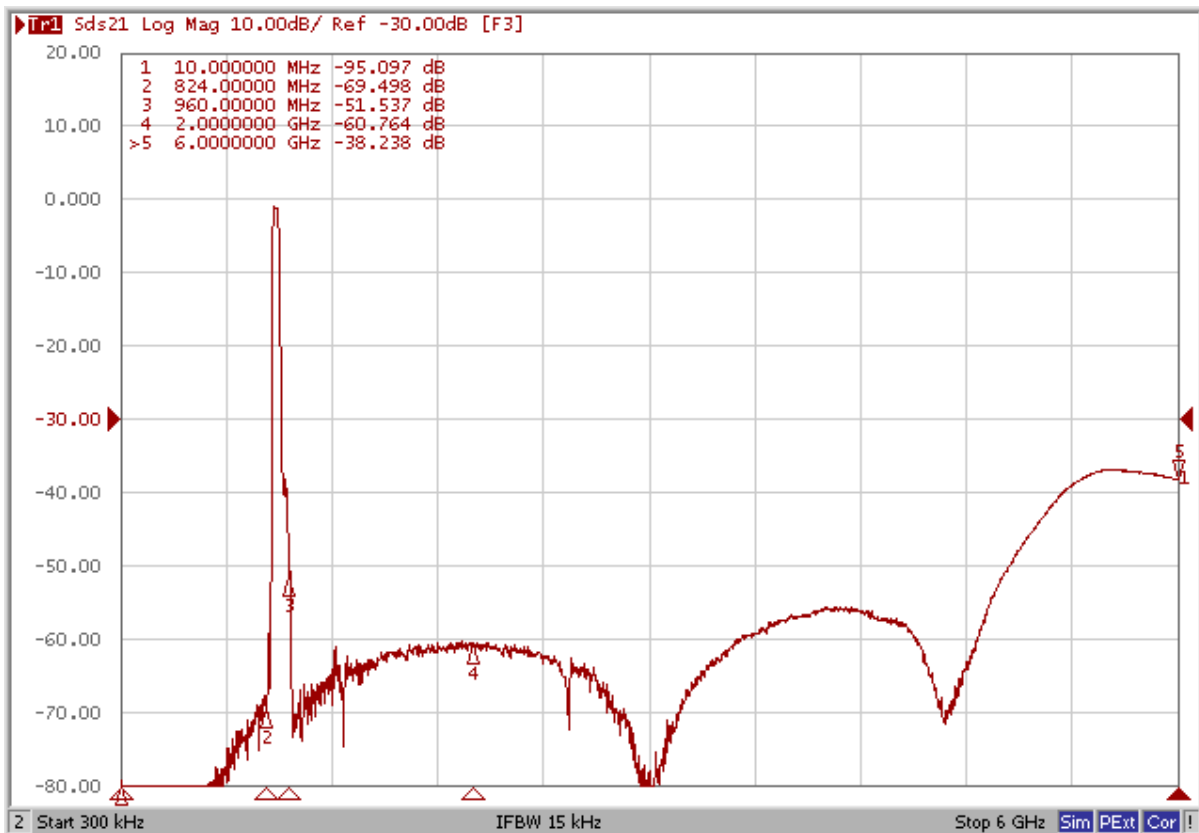
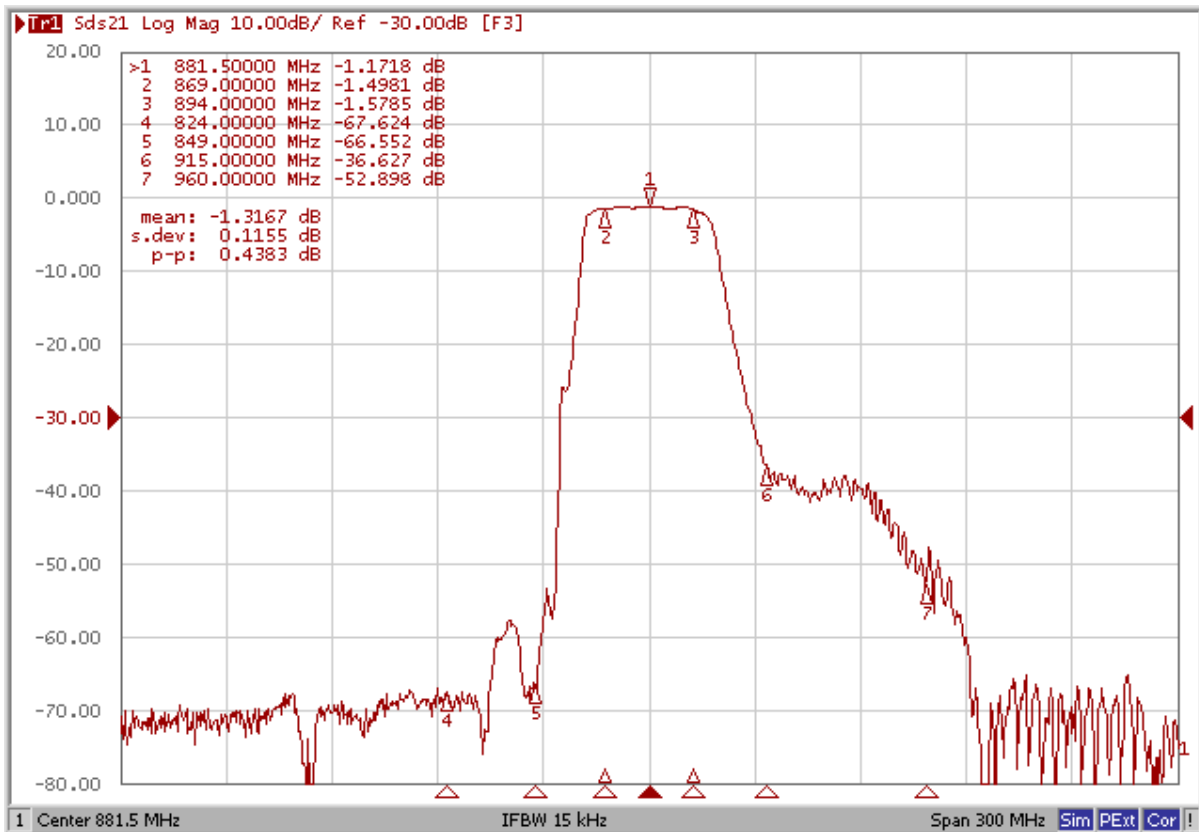
Terminating load impedance: $Z_L = 100 \Omega$ (balance)

Parameters Description (Band 1)	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	881.5	-
Insertion Loss within 869.0 ~ 894.0 MHz	dB	-	1.5	2.2
Amplitude Ripple within 869.0 ~ 894.0 MHz	dB _{p-p}	-	0.5	1.0
VSWR within 869.0 ~ 894.0 MHz	-	-	1.7	2.2
Amplitude balance within 869.0 ~ 894.0 MHz	dB	-1.0	-0.4 ~ +0.2	+1.0
Phase balance within 869.0 ~ 894.0 MHz	deg	-10	-0.3 ~ +3.7	+10
Attenuation:				
DC ~ 824.0 MHz	dB	50	65	-
824.0 ~ 849.0 MHz	dB	50	57	-
914.0 ~ 960.0 MHz	dB	25	36	-
960.0 ~ 2000.0 MHz	dB	40	51	-
2000.0 ~ 6000.0 MHz	dB	30	37	-

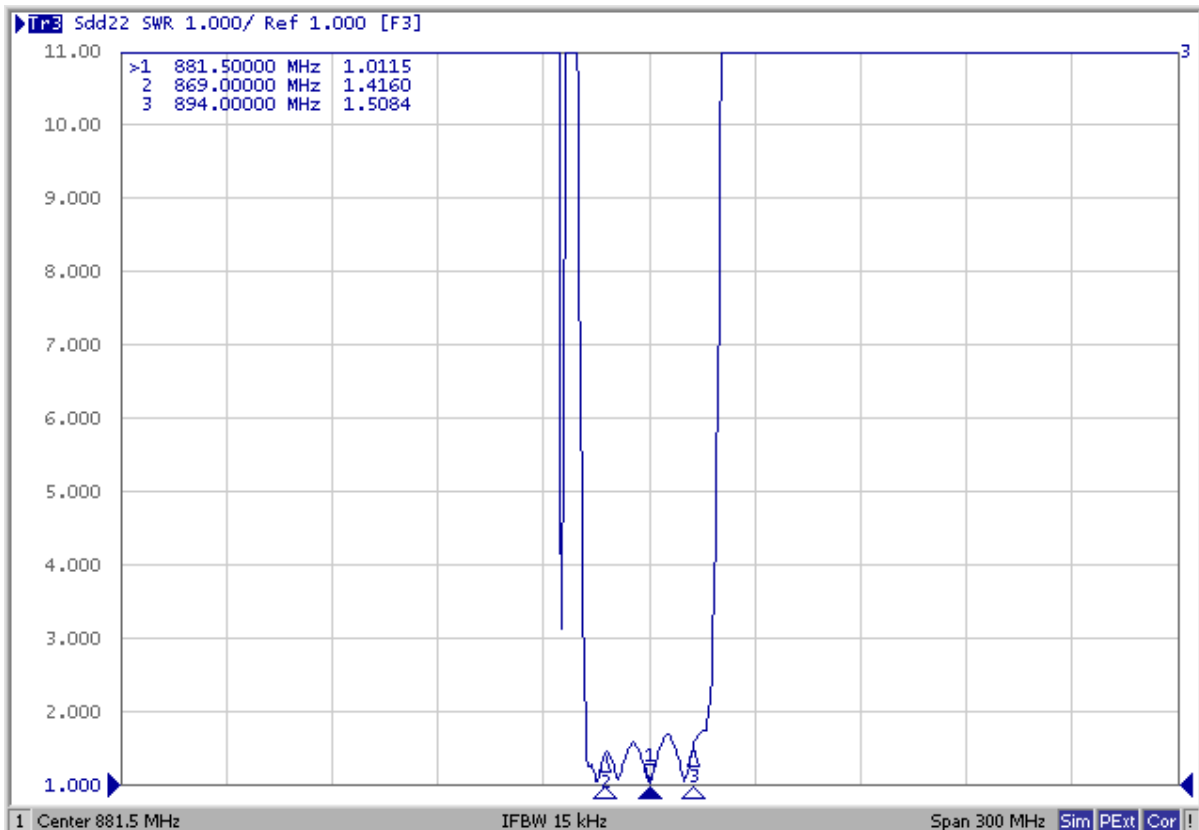
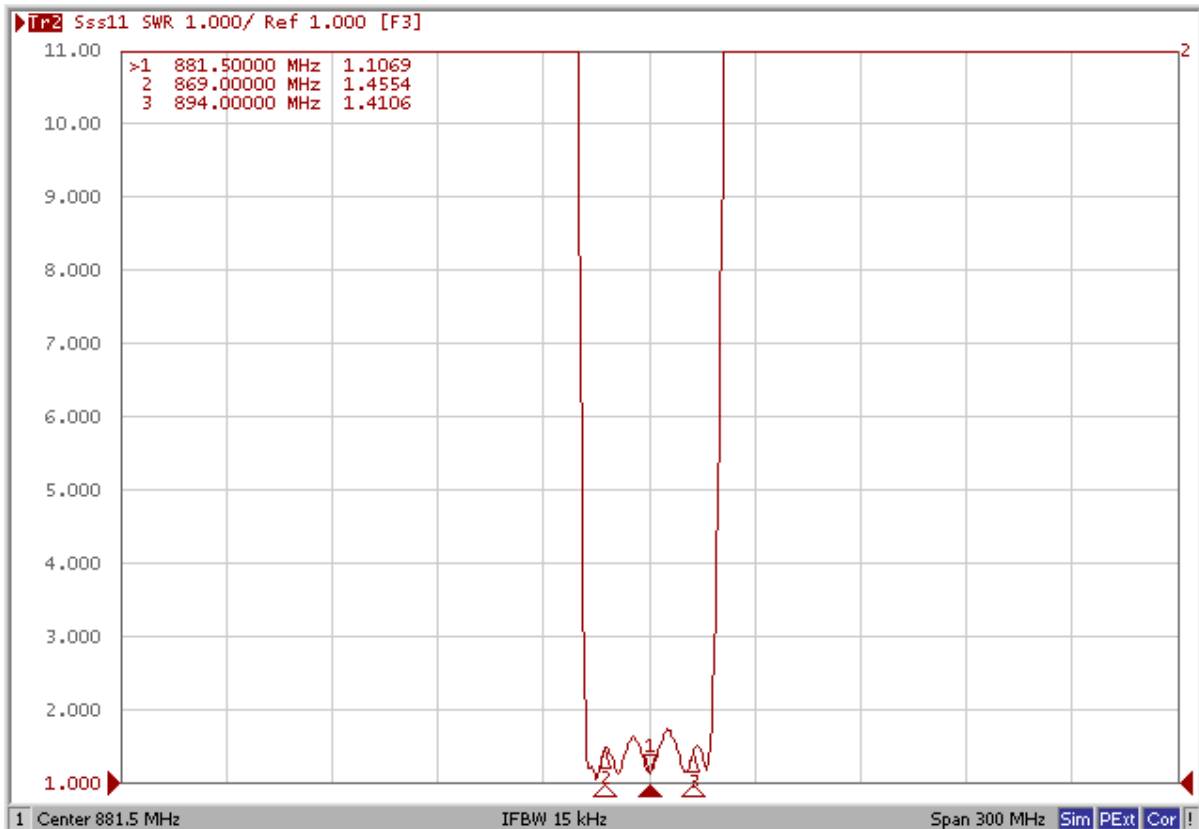
Notes : (1) No Matching Network .

C. Frequency Characteristics :

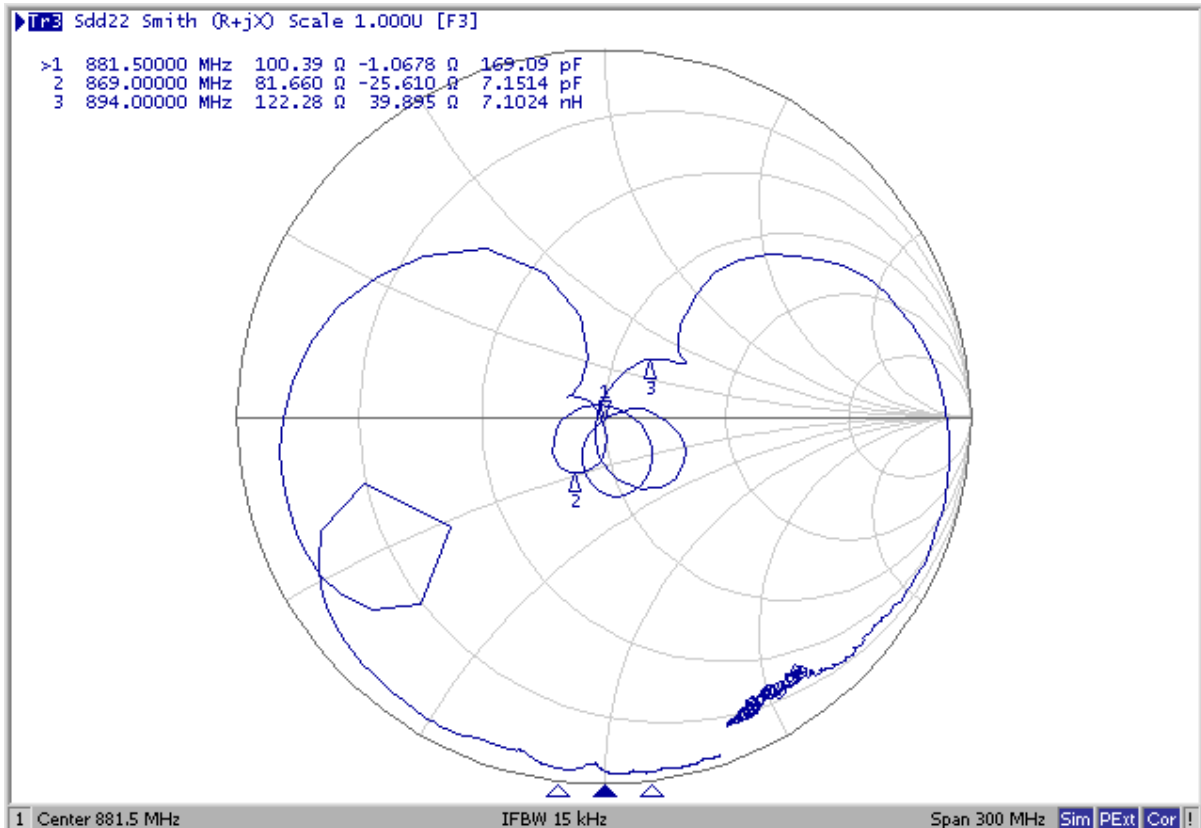
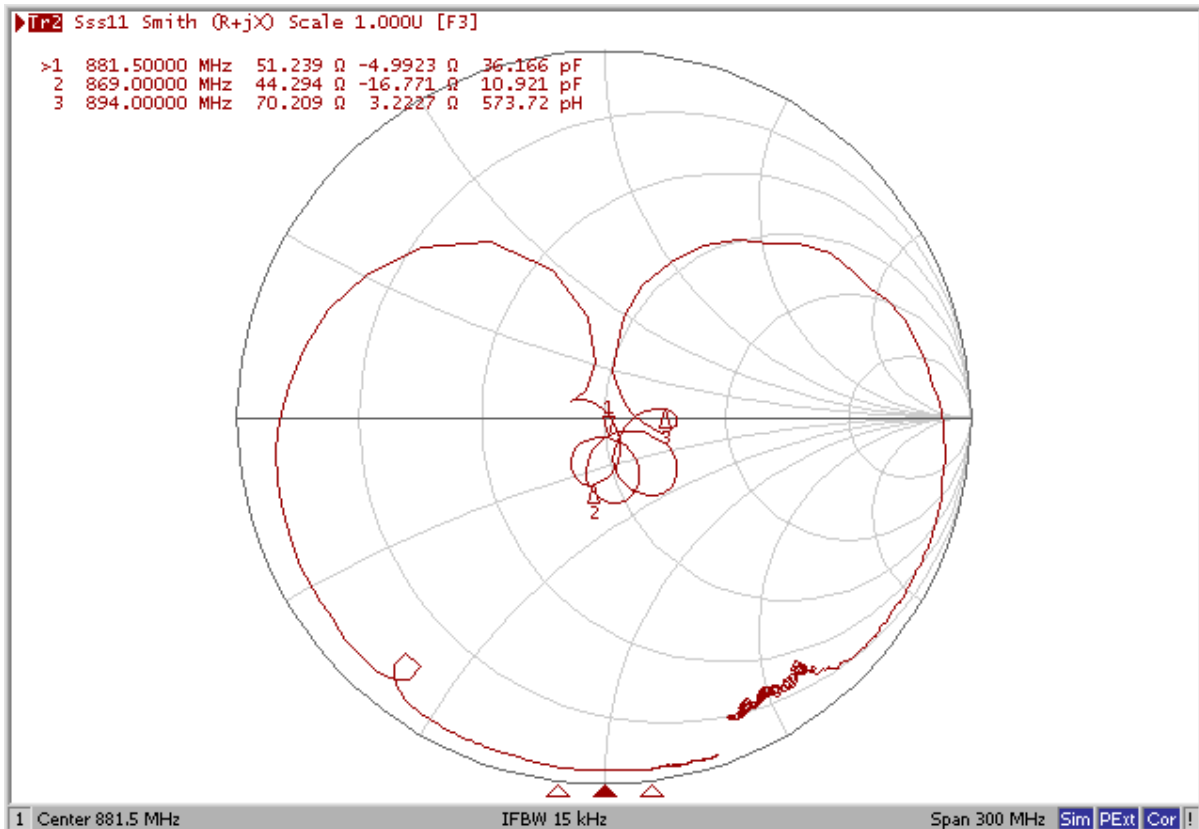
Frequency Response



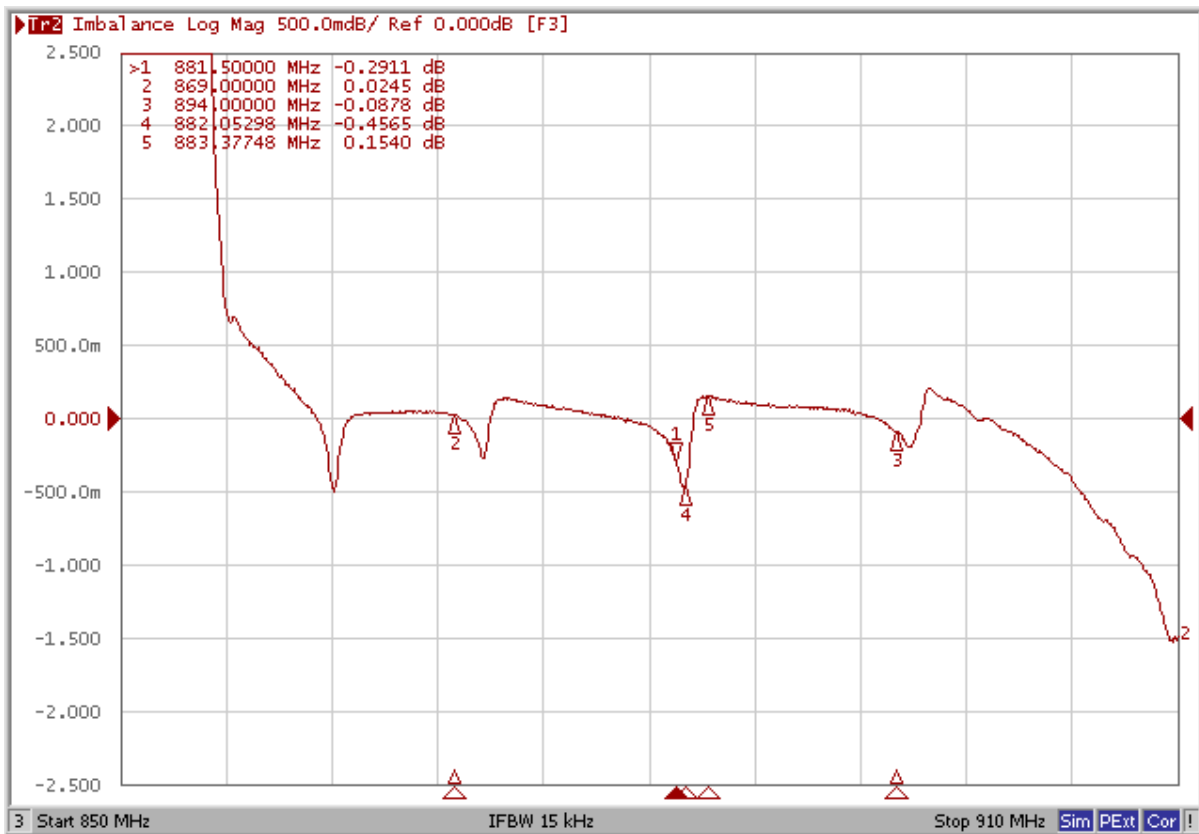
VSWR



Smith Chart



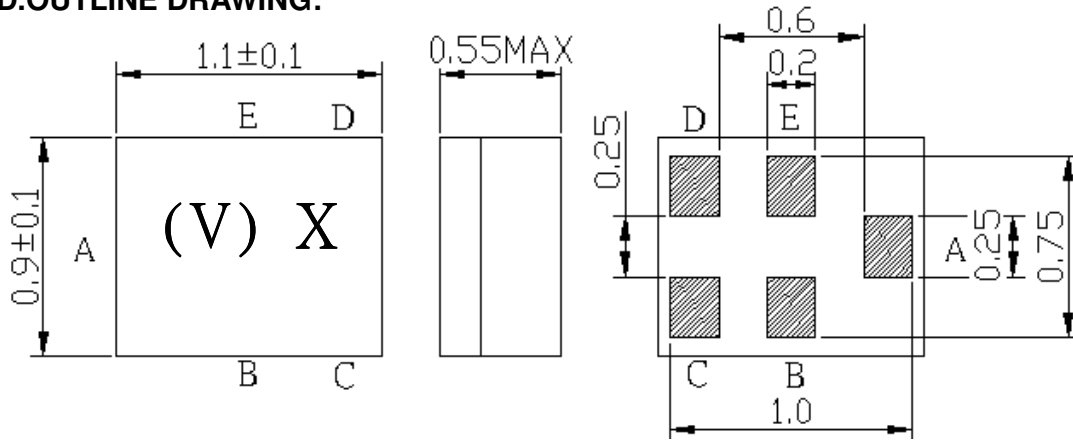
Amplitude balance



Phase balance



D.OUTLINE DRAWING:



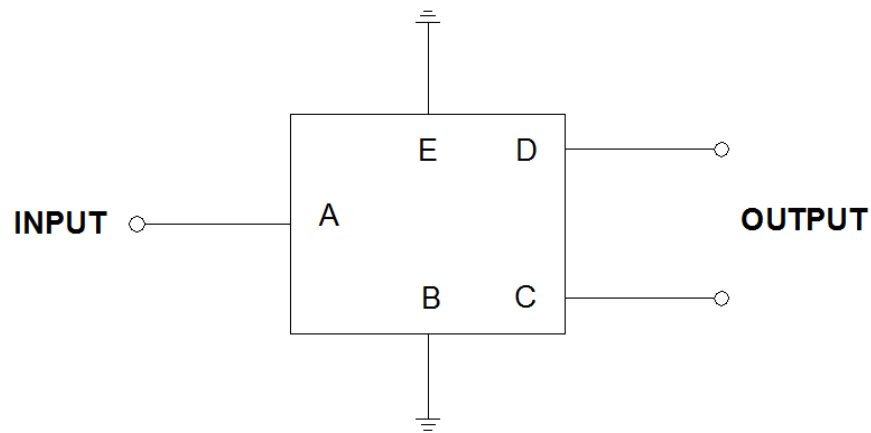
Marking Descriptions	
(V)	Series Number
X	Date Code(Year+Month)

Pin Description	
B, E	Ground
A	Input
C,D	Balanced 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>

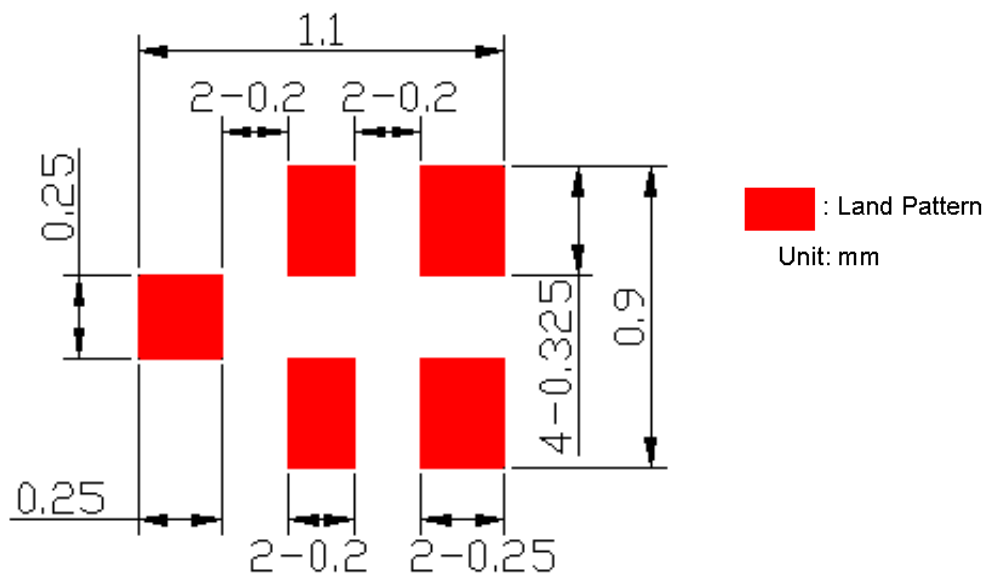
E. MEASUREMENT CIRCUIT:



Source Impedance: $50\ \Omega$

Load Impedance: $100\ \Omega$

F. PCB Footprint :



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 245~260°C peak (min. 10sec).
4. Time : 2 times.

