



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 737.5 MHz Band 12 SMD 1.1x0.9 mm (BW=17 MHz)

TST Part No.: TA1949A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2015/12/28

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 737.5 MHz Band 12 SMD 1.1x0.9 mm (BW=17 MHz)

MODEL NO.: TA1949A

REV. NO.: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: +15 dBm

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

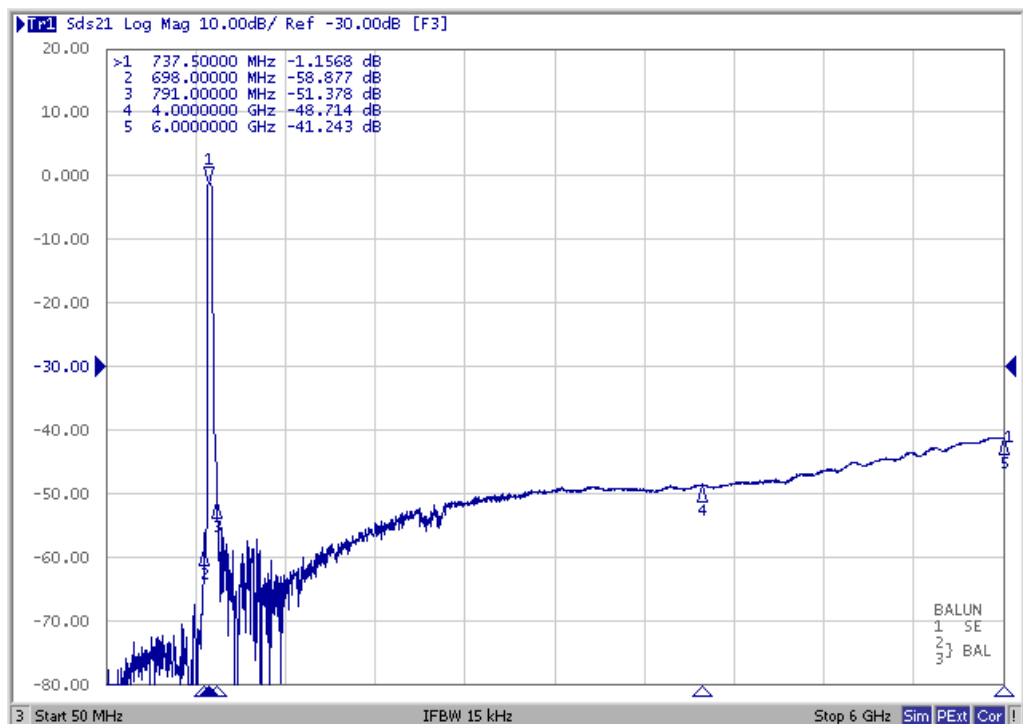
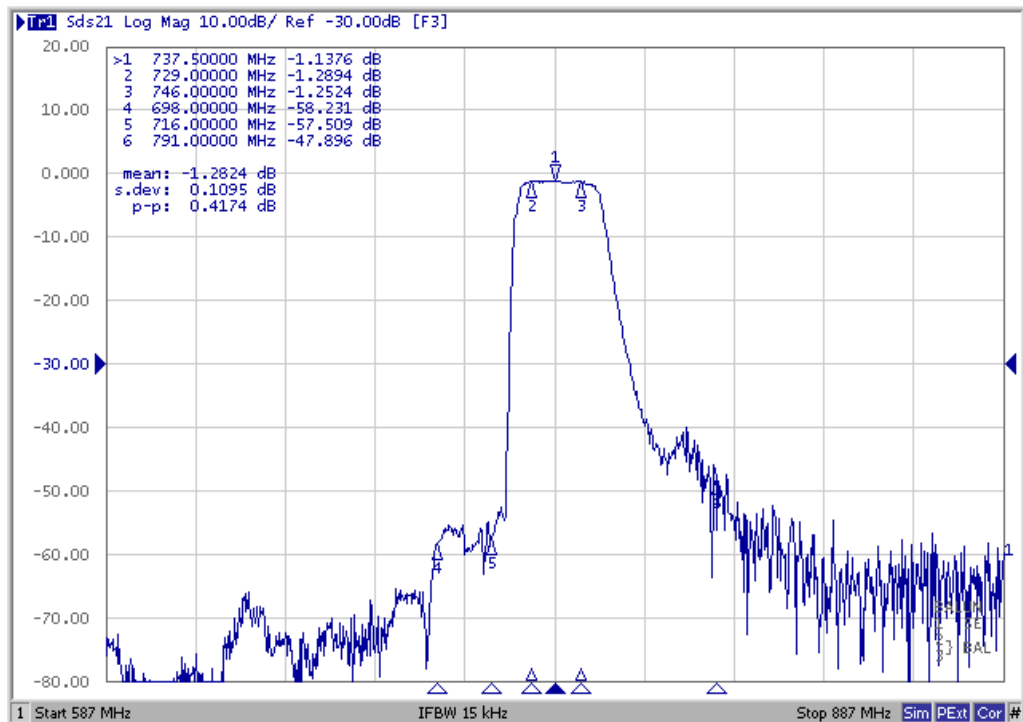
Terminating load impedance: $Z_L = 100 \Omega$ (Balanced)

Parameters Description			Unit	Min.	Typ.	Max.
Center Frequency			MHz	-	737.5	-
Insertion Loss		729~746 MHz	dB	-	1.6	2.5
Amplitude Ripple		729~746 MHz	dB	-	0.5	1.5
VSWR	Input	729~746 MHz	-	-	1.8	2.1
	Output	729~746 MHz	-	-	1.8	2.1
Amplitude balance		729~746 MHz	dB	-1.0	-0.1~+0.2	+1.0
Phase balance		729~746 MHz	deg	-10	-1.0~+1.0	+10
Attenuation:						
10~698 MHz			dB	40	59	-
699~716 MHz			dB	48	55	-
791~4000 MHz			dB	35	45	-
4000~6000 MHz			dB	30	48	-

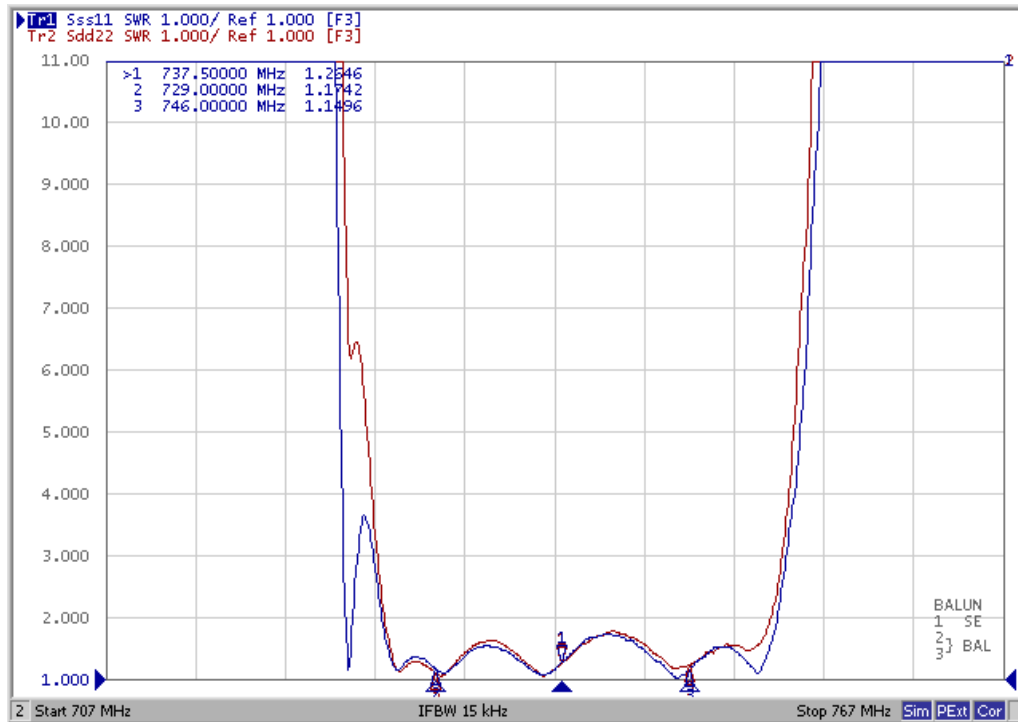
Notes: (1) No Matching Network.

C. FREQUENCY CHARACTERISTICS:

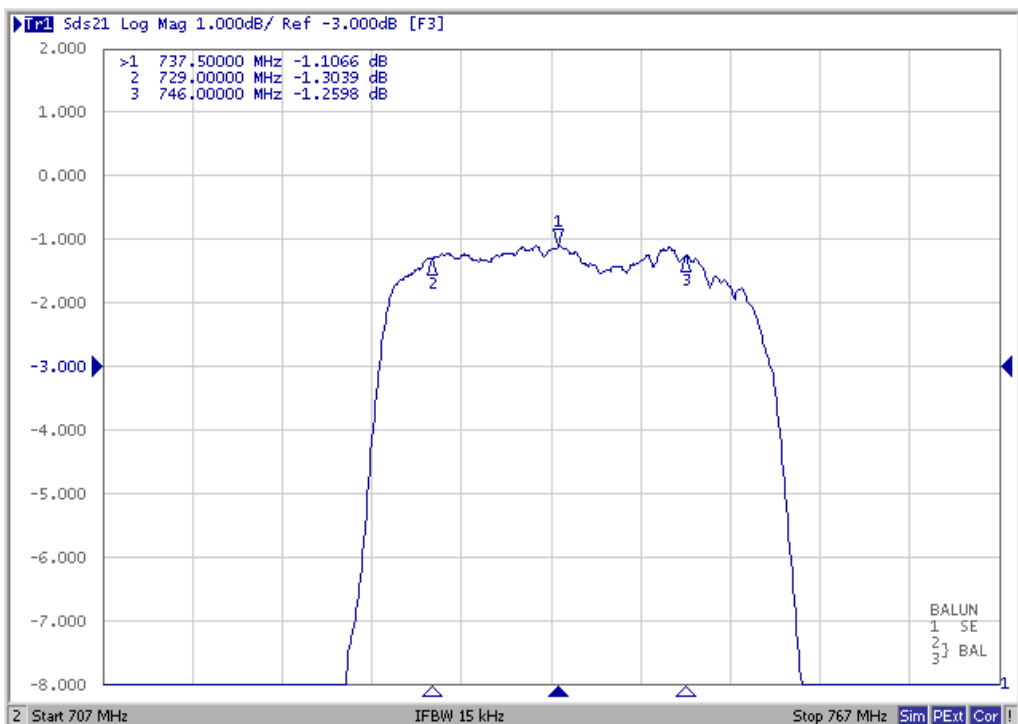
Frequency Response



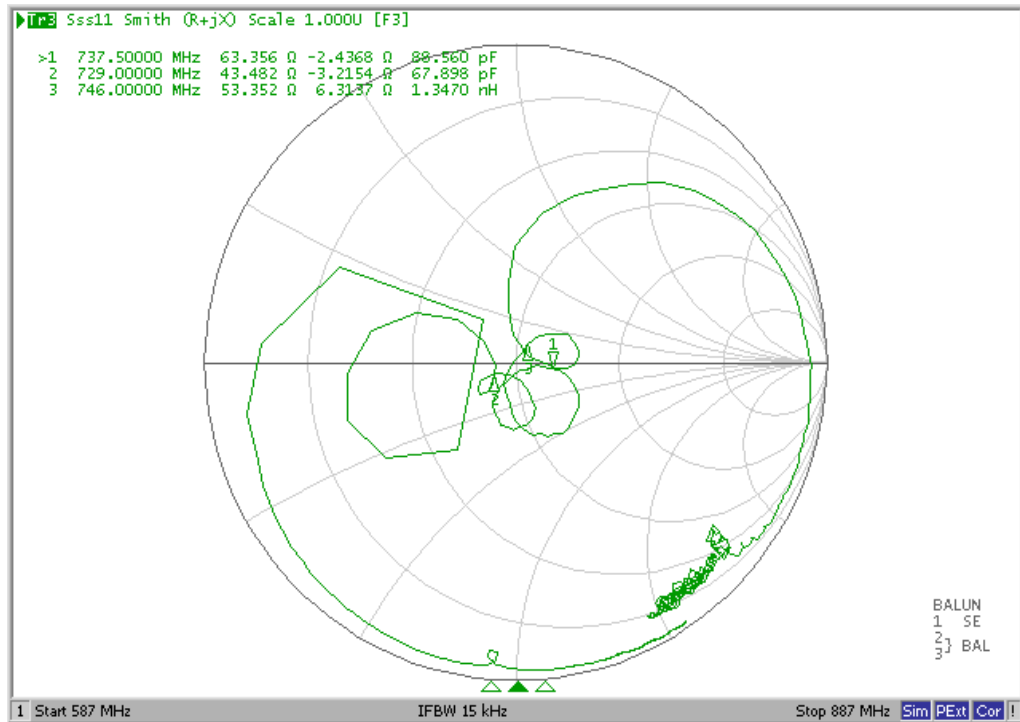
VSWR



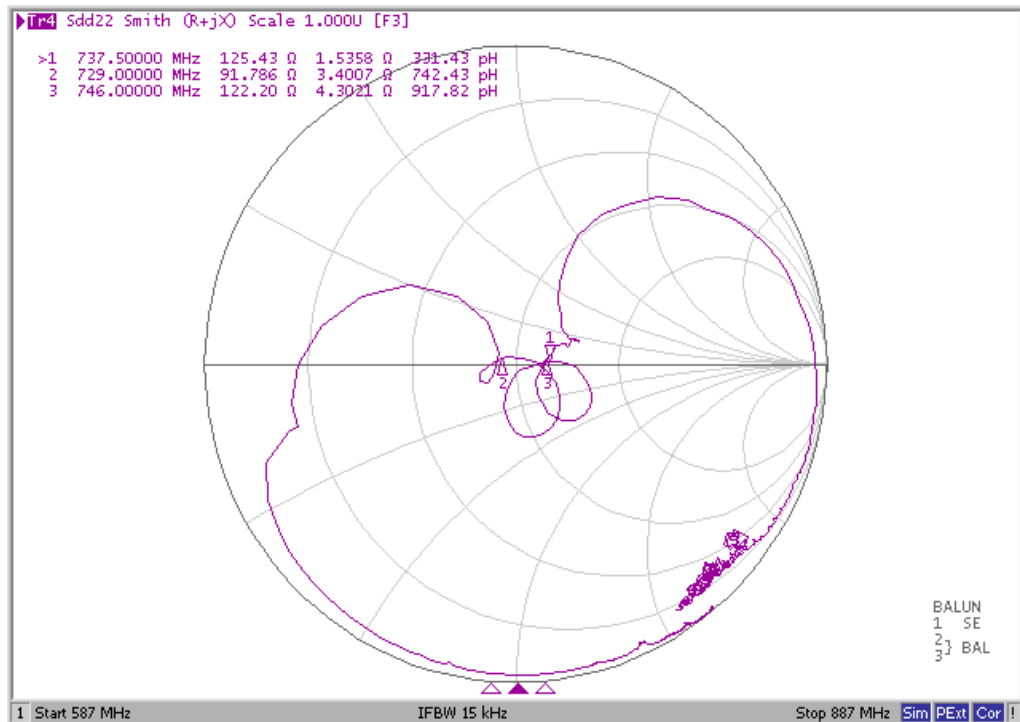
Ripple



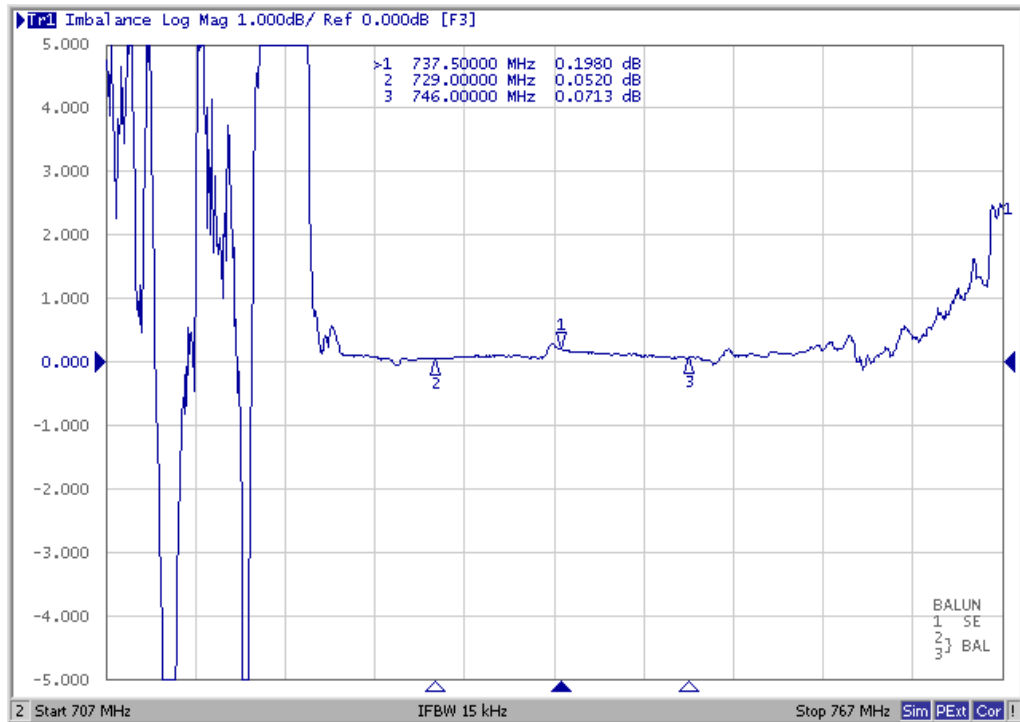
Smith Chart (S11)



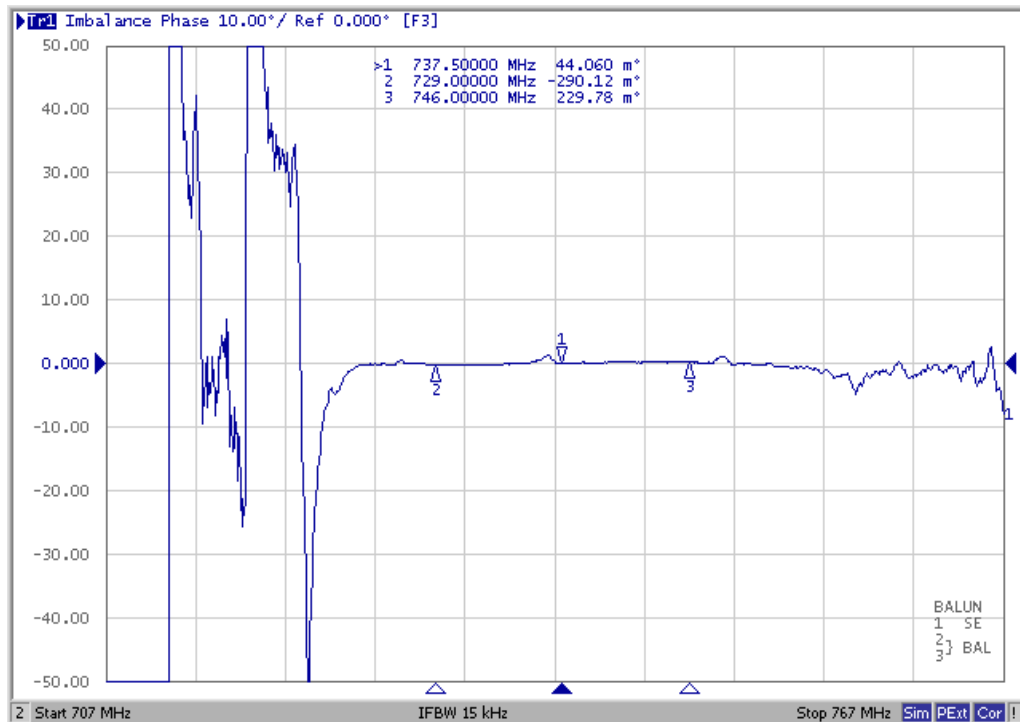
Smith Chart (S22)



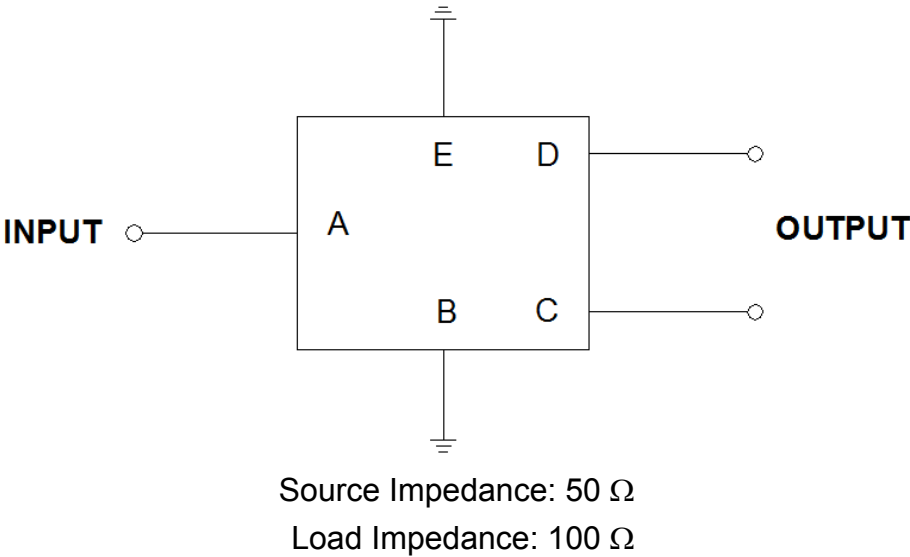
Amplitude balance



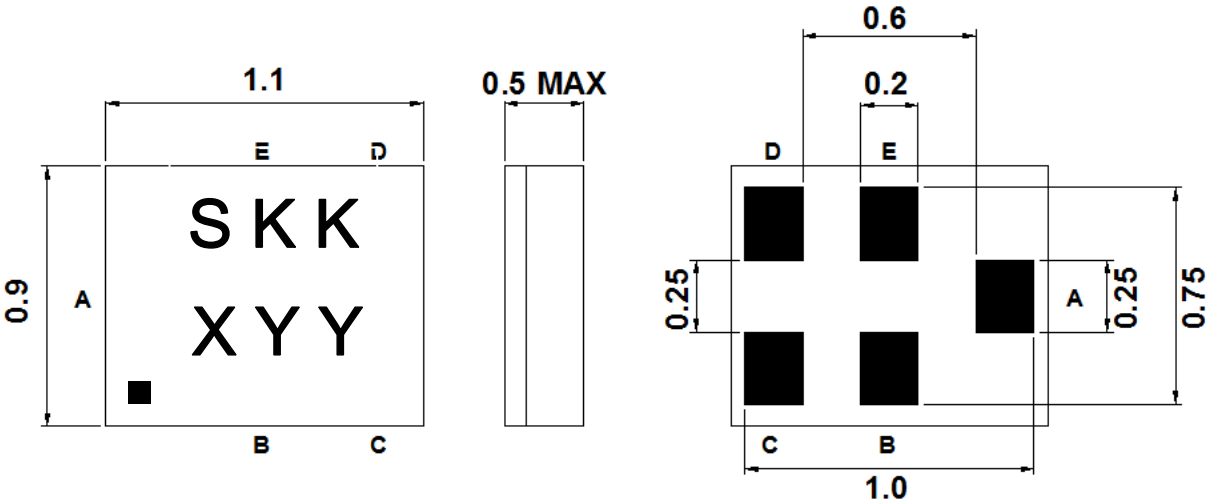
Phase balance



D. MEASUREMENT CIRCUIT:



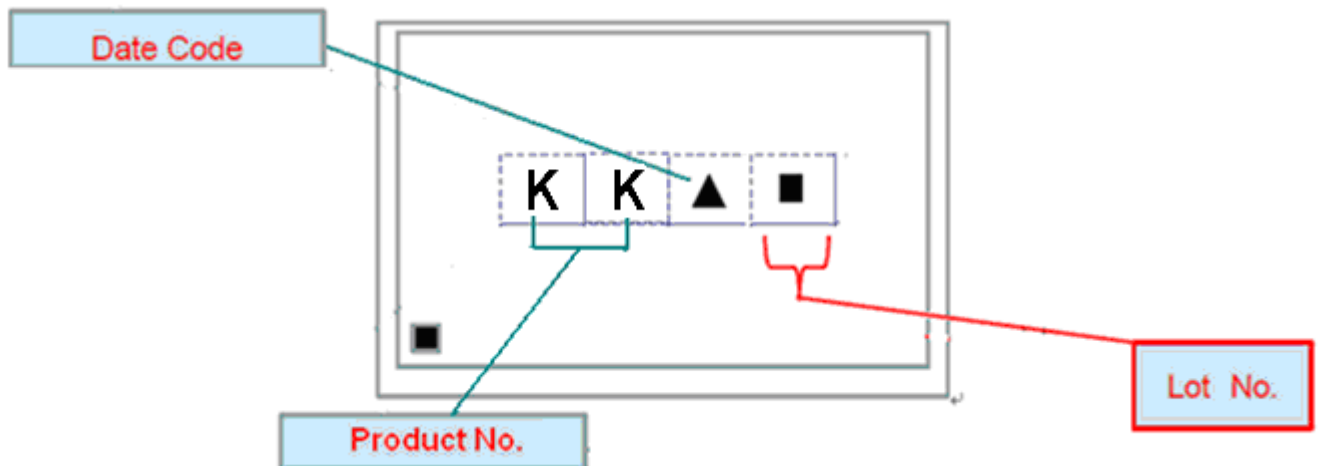
E. OUTLINE DRAWING:



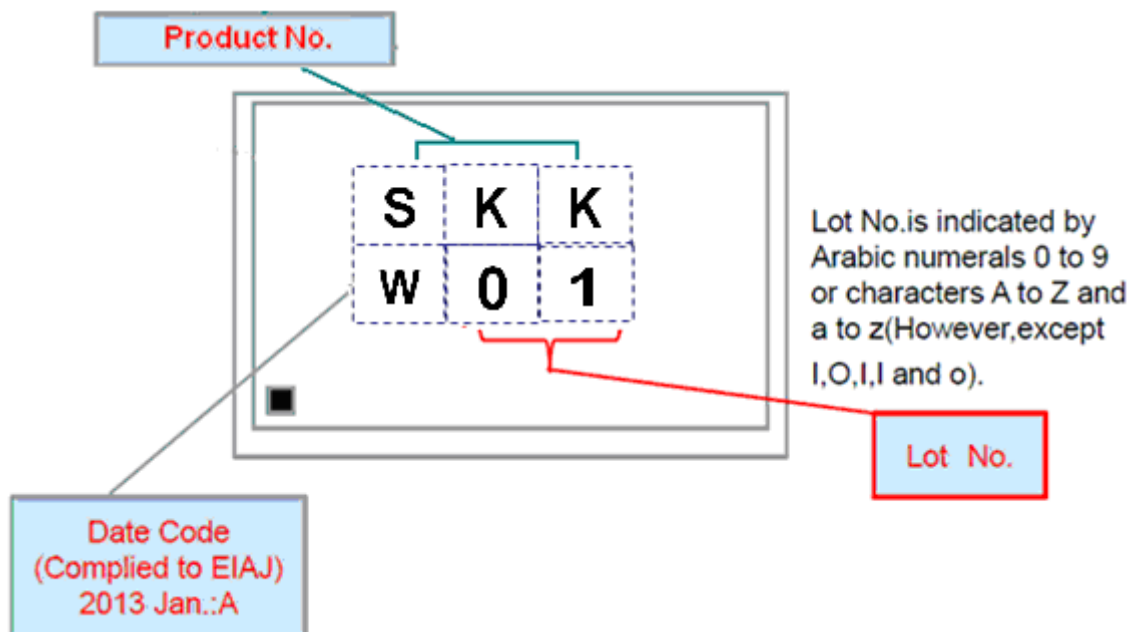
Marking Descriptions	
S	Product No 1
KK	Product No 2
X	Date Code(Year+Month)
YY	Lot No

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

Top View (Sample Run):



Top View (Pilot Run):

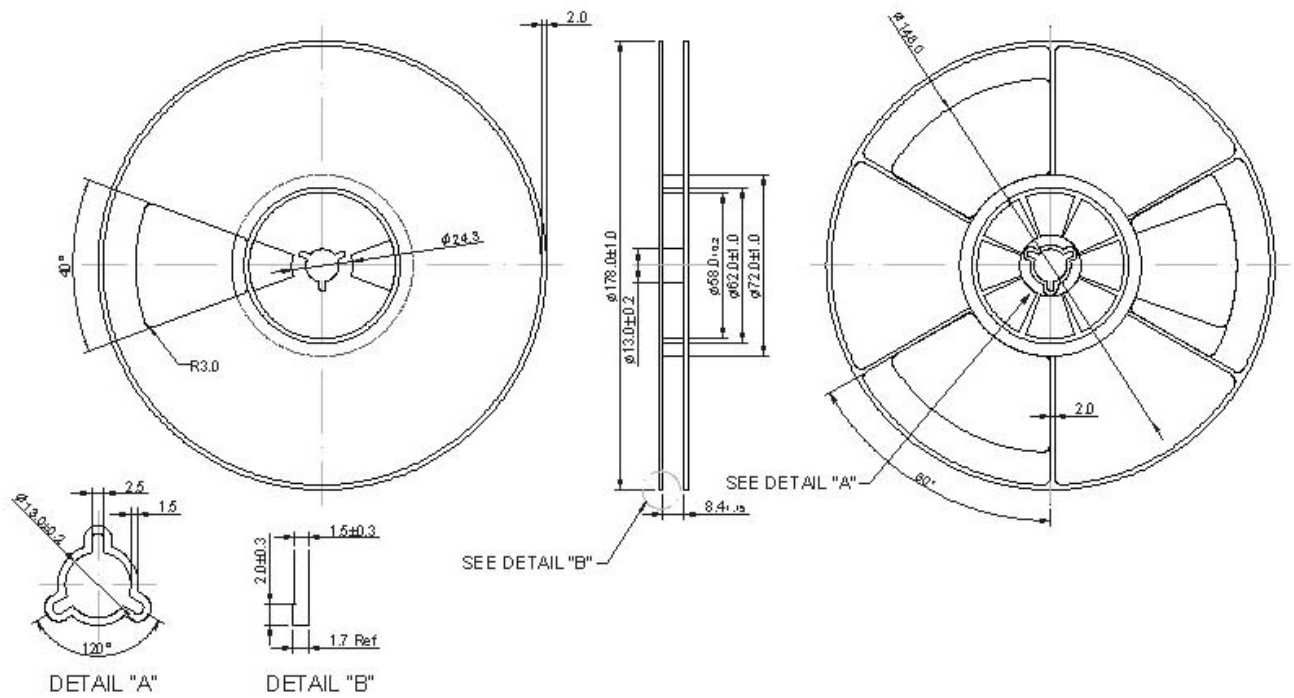


Product date Code (EIAJ)

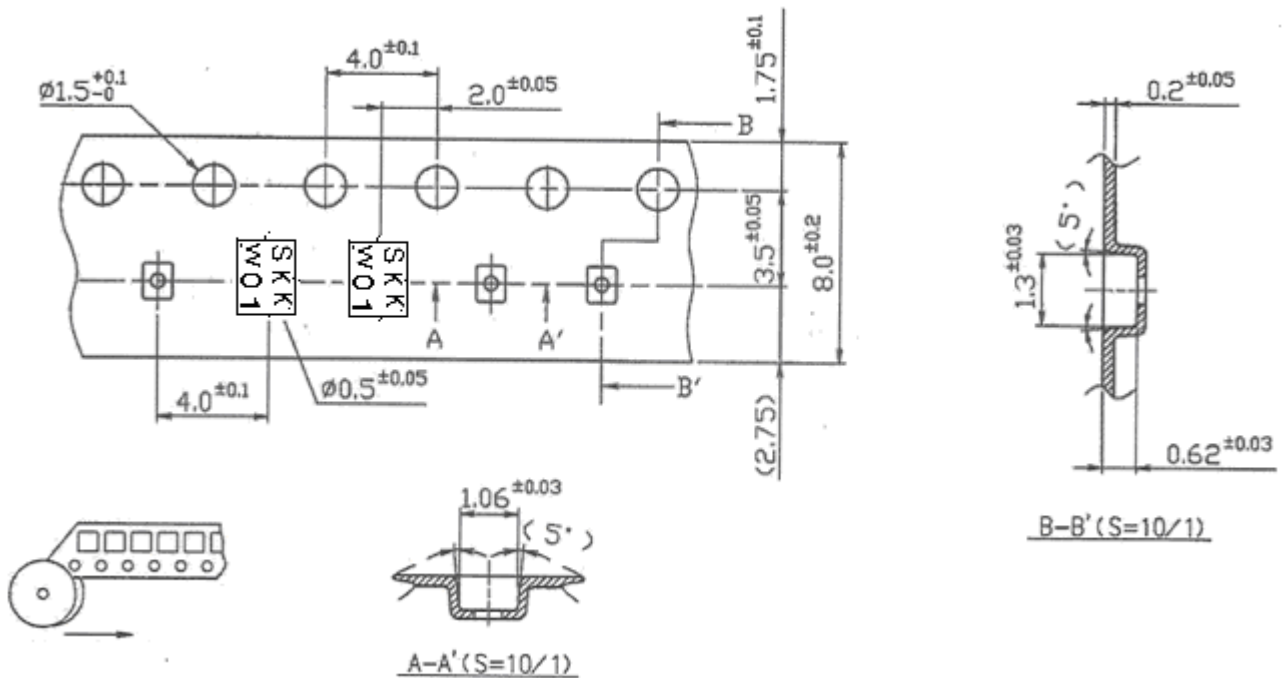
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

F. PACKING:

1. REEL DIMENSION



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.

