TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 942.5 MHz Band 8 Rx SMD 1.1x0.9 mm (BW=35 MHz)

TST Part No.: TA1839A

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by:_____ Hayley Chou

Approved by:_____ Andy Yu

Date:_____ 2015/07/10

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 942.5 MHz Band 8 Rx SMD 1.1x0.9 mm (BW=35 MHz)

MODEL NO.: TA1839A REV. NO.:1.0

A. MAXIMUM RATING:

Operating Temperature: -20 °C to +85 °C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs = 50 Ω (Single-ended)

Terminating load impedance: ZL = 50 Ω (Single-ended)

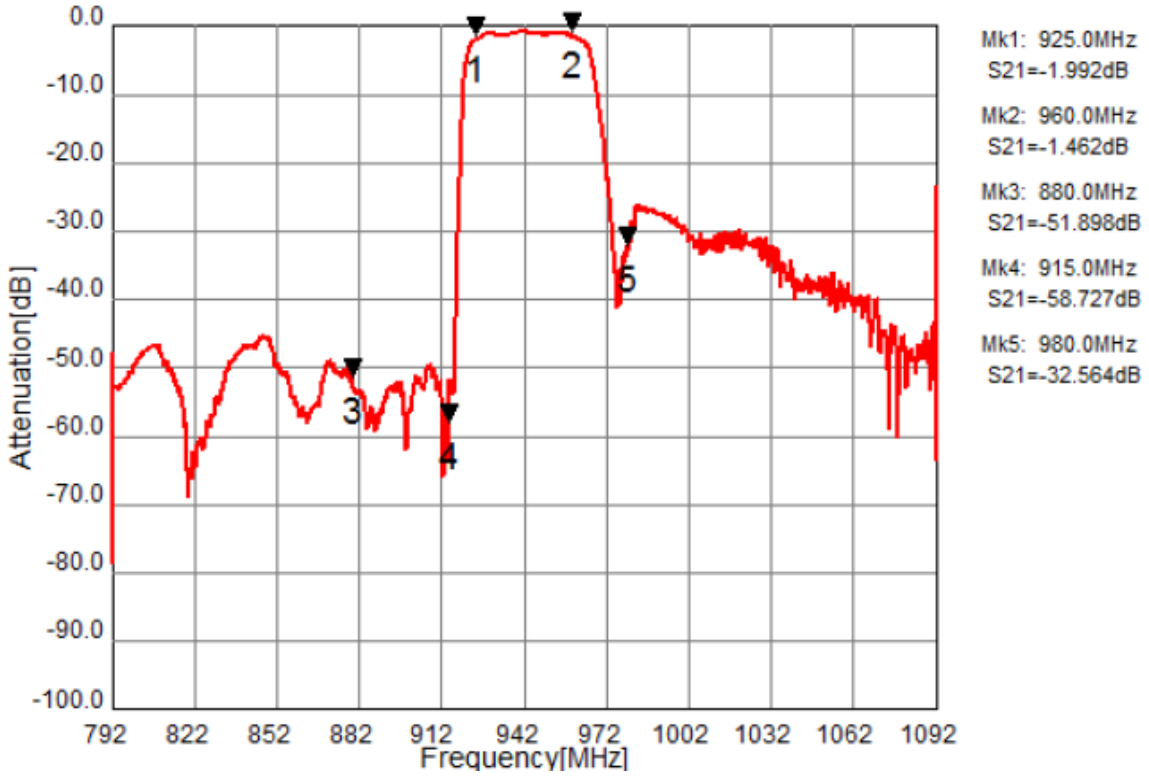
Electrostatic **S**ensitive **D**evice (**ESD**)

Parameters Description			Unit	Minimum	Typical	Maximum
Center Frequency			MHz	-	942.5	-
Insertion Loss(*1)		925~960 MHz	dB	-	2.0	3.0
Amplitude Ripple		925~960 MHz	dB	-	1.3	2.3
VSWR	Input	925~960 MHz	-	-	1.9	2.3
	Output	925~960 MHz	-	-	2.0	2.3
Attenuation:						
880~915 MHz			dB	46	48	-
980~1558 MHz			dB	15	26	-
1559~1607 MHz			dB	40	51	-
1850~1920 MHz			dB	35	44	-
2400`2500 MHz			dB	30	38	-
2775~2880 MHz			dB	28	36	-
3700~3840 MHz			dB	25	32	-
4625~4800 MHz			dB	20	30	-
4900~5950 MHz			dB	18	27	-
5550~5725 MHz			dB	18	27	-
6475~6720 MHz			dB	15	25	-
7400~7680 MHz			dB	15	23	-

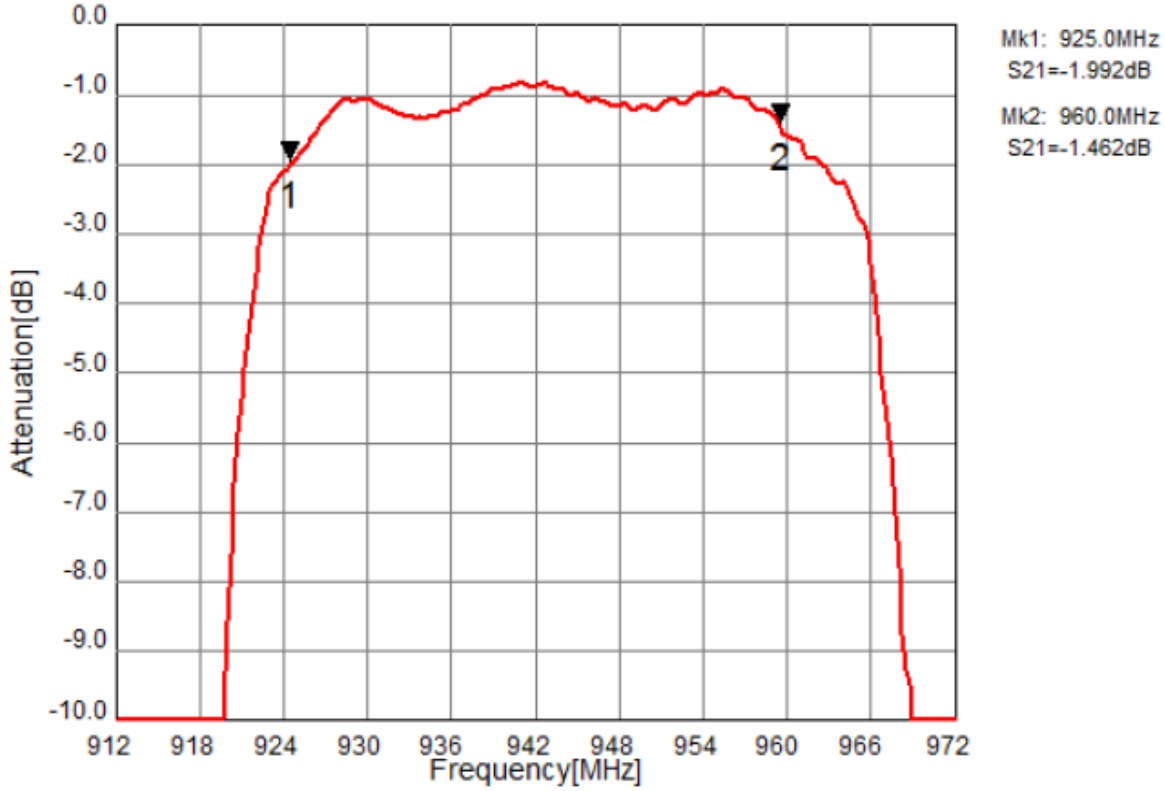
(*1) Specification of insertion loss excludes loss that comes from the test board.

C. FREQUENCY CHARACTERISTICS:

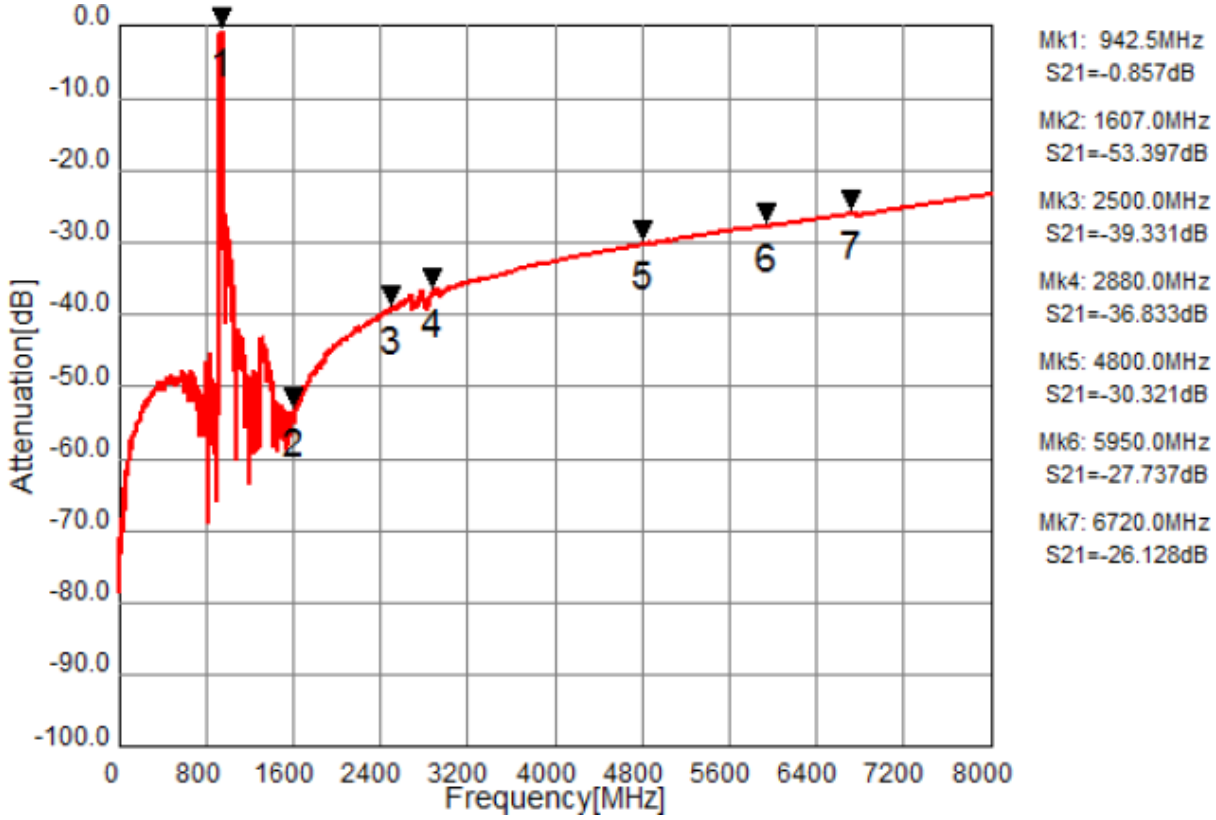
Pass-band



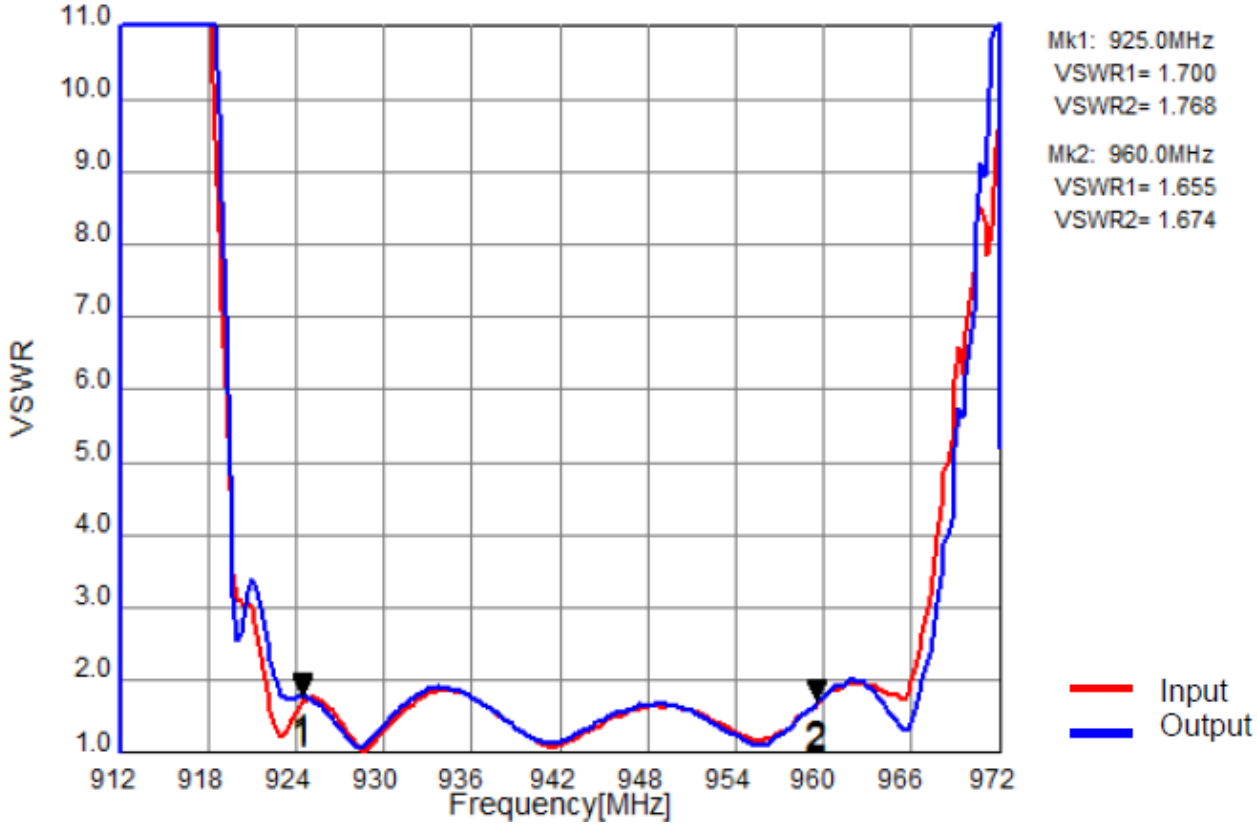
In-band



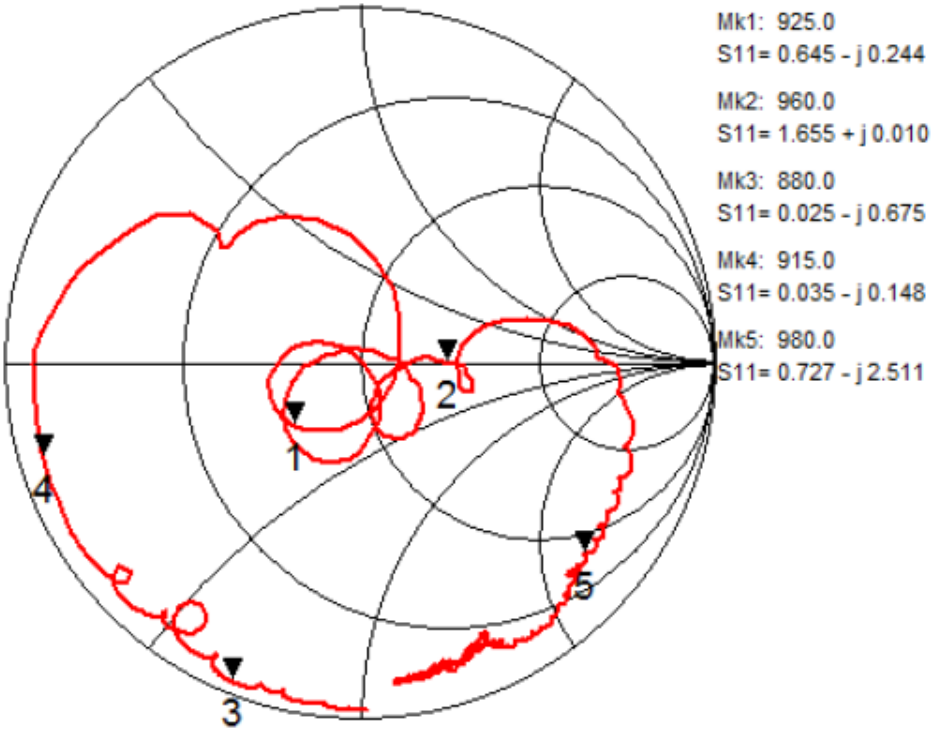
Wide-band



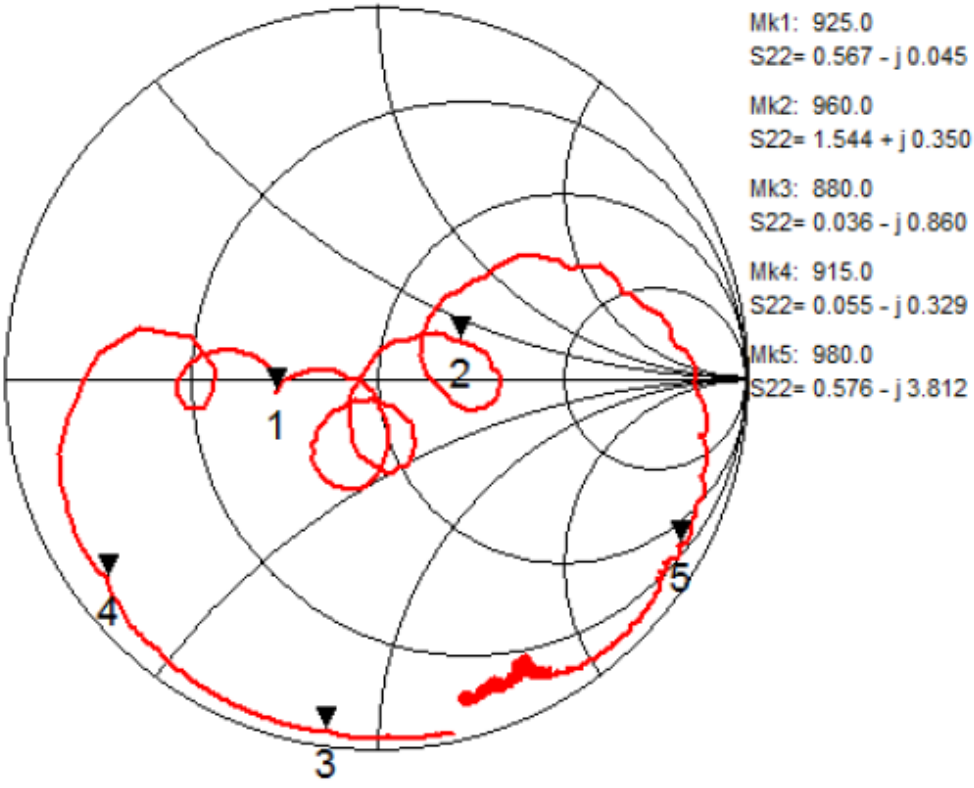
VSWR



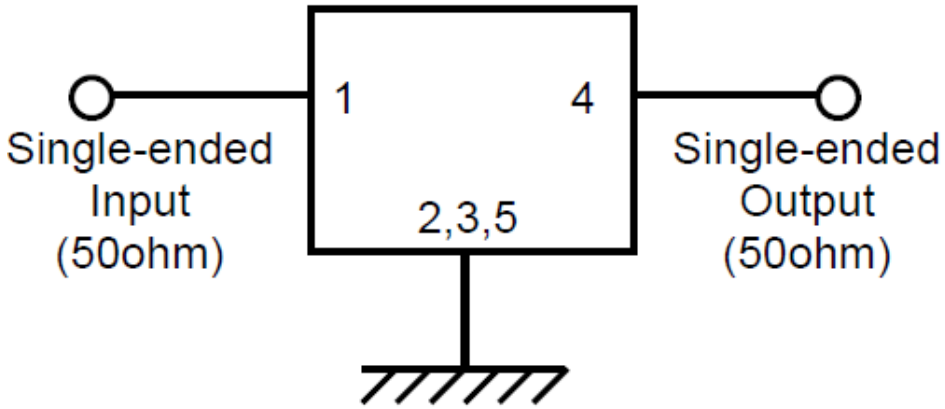
Input Impedance



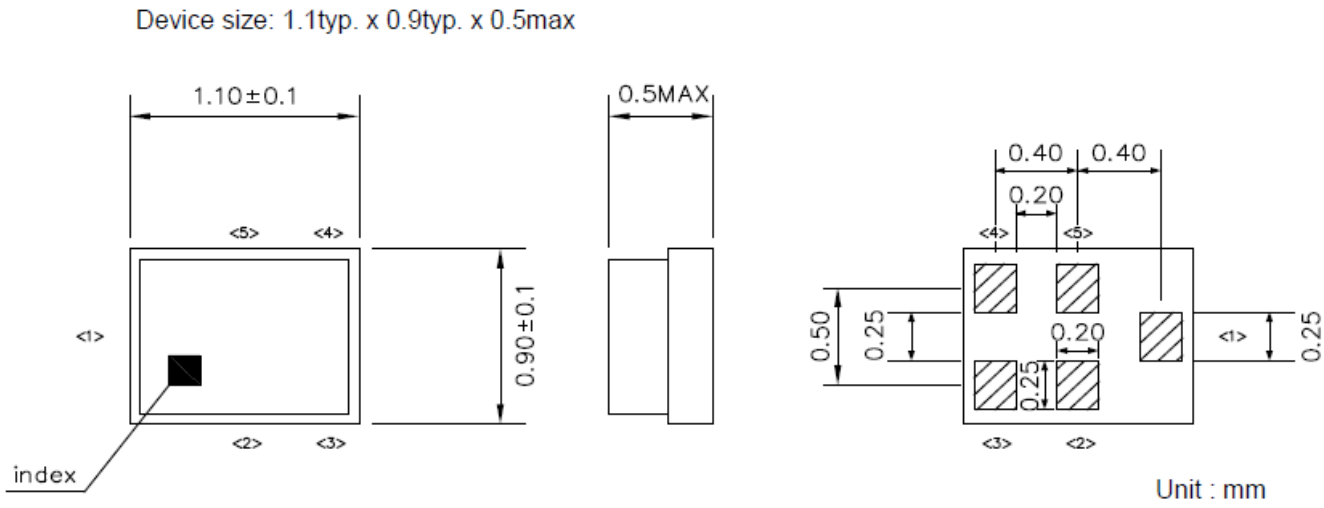
Output Impedance



D. MEASUREMENT CIRCUIT:



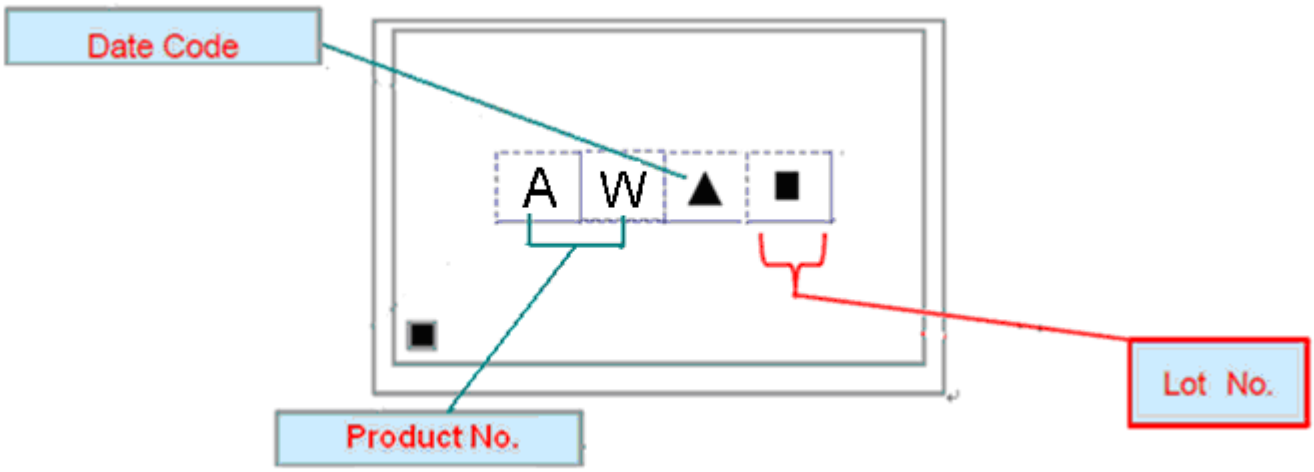
E. OUTLINE DRAWING:



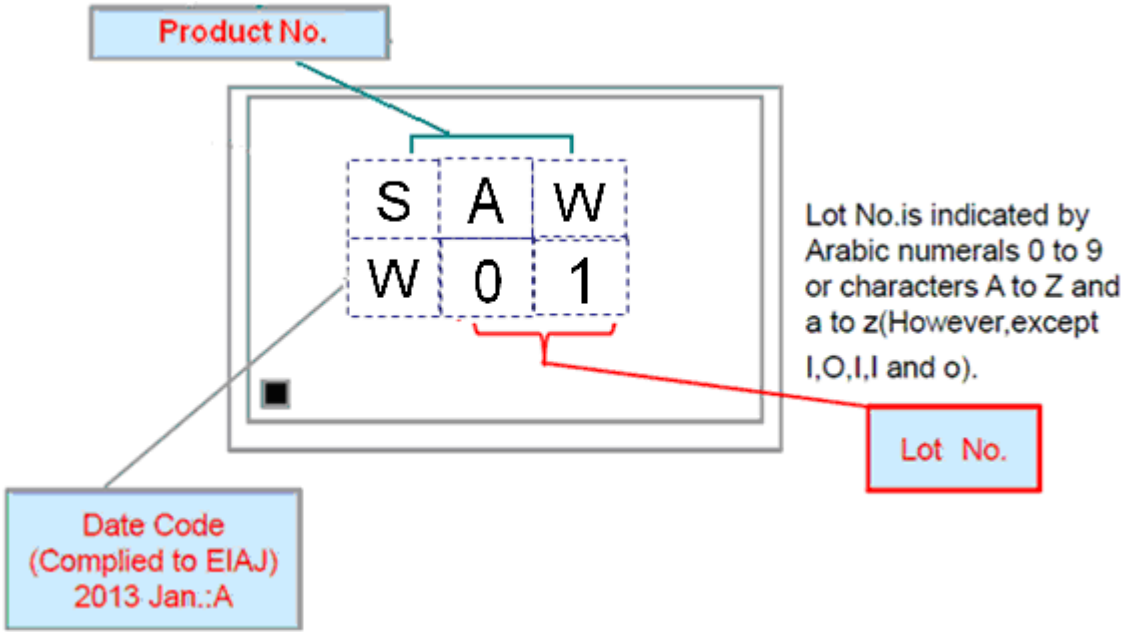
Pin Configuration

Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

Top View (Sample Production):



Top View (Mass Production):

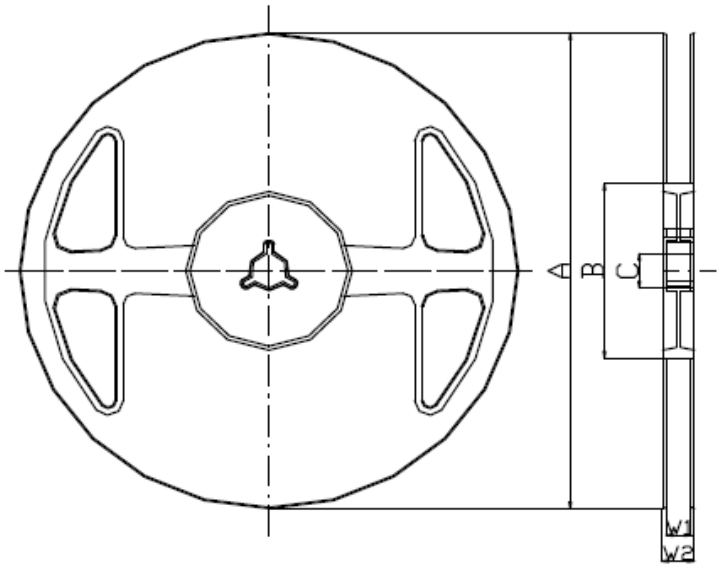


Product date Code (EIAJ)

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



Materials of Reel

Material : Polvstvrene + Carbon

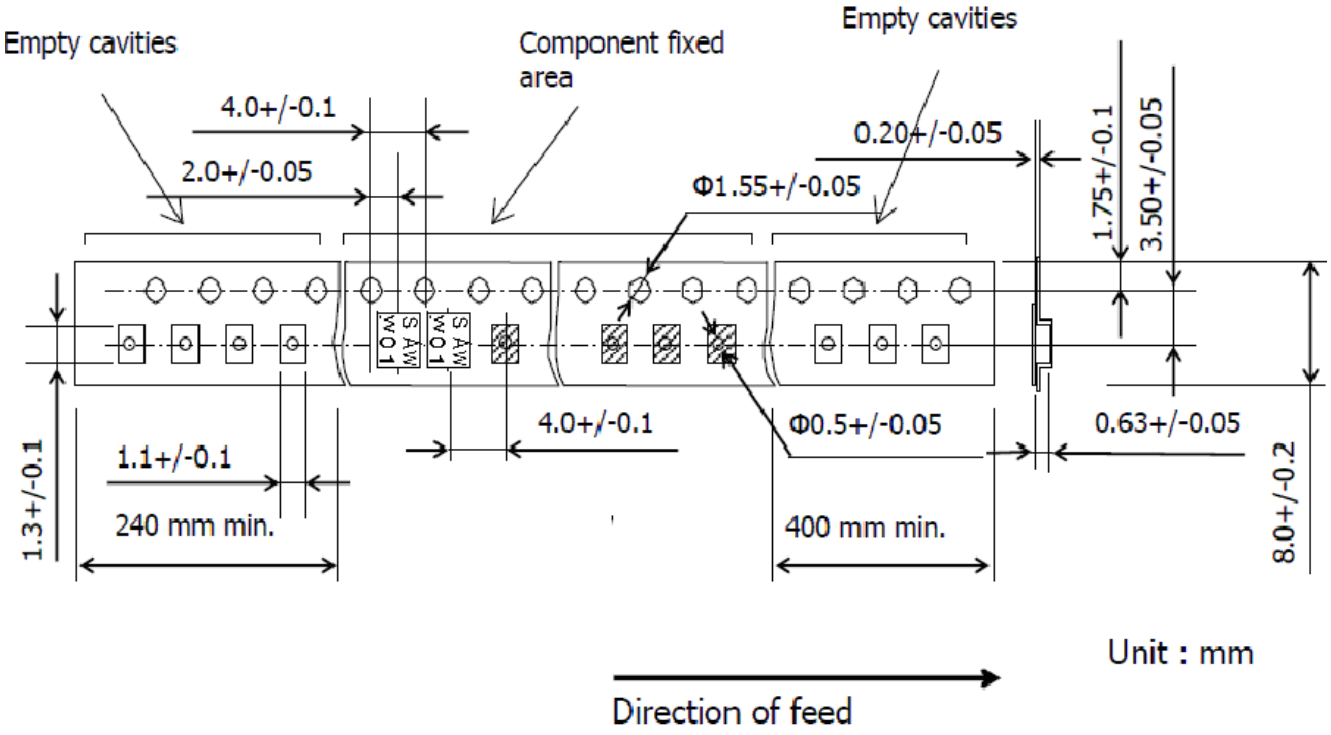
Color : Black

Surface resistance (reference value) : $10^9\Omega$/sq Max.

Unit : mm

Code	Quantity	A	B	C	W1	W2
J	5,000 pcs	ϕ 180.0 +0.0/-1.5	ϕ 66.0 +/-0.5	ϕ 13.0 +/-0.2	9.0 +1.0/-0.0	11.4 +/-1.0

2. TAPE DIMENSION



G. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:

The figure below shows the recommended temperature profile for reflow soldering in the case of lead-free solder alloy Sn3.0Ag0.5Cu.

Recommended number of reflow cycles is 5 maximum.

Suitable condition for solder heating is different depending on composition and manufacturing method. Please contact the solder manufacturer for details.