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 2655MHz 70MHz BW Band 7 Rx SMD 1.1x0.9 mm

TST Part No.: TA1847A

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by:_____ Hayley Chou

Approved by:_____ Andy Yu

Date:_____ 2015/07/13

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 changes.

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SAW Filter 2655MHz 70MHz BW Band 7 Rx SMD 1.1×0.9mm

MODEL NO.: TA1847A REV. NO.:1.0

A. MAXIMUM RATING:

Temperature range: -30°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

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

Terminating source impedance: Zs = 50//5.1nH Ω (Single-ended)

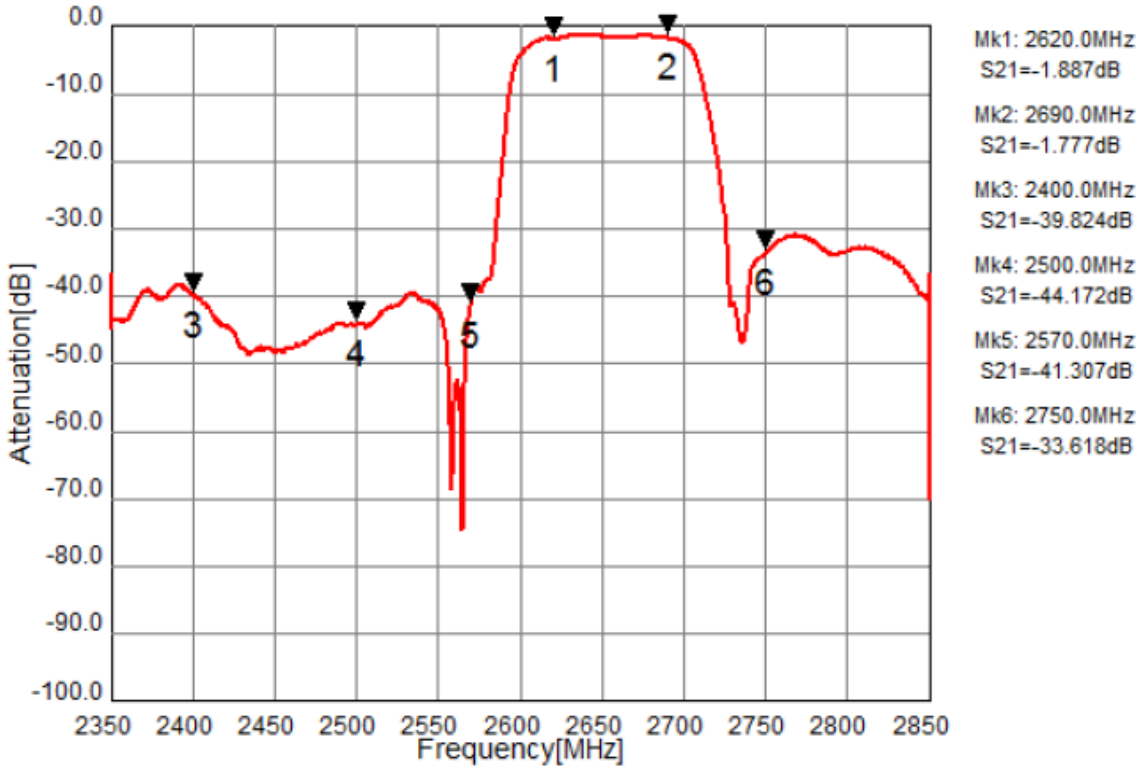
Terminating load impedance: ZL = 50//5.1nH Ω (Single-ended)

Parameters Description			Unit	Minimum	Typical	Maximum
Center Frequency			MHz	-	2655	-
Insertion Loss(*1)		2620~2690MHz	dB	-	2.5	3.0
Amplitude Ripple		2620~2690MHz	dB	-	0.8	1.5
VSWR	Input	2620~2690MHz	-	-	1.6	2.0
	Output	2620~2690MHz	-	-	1.8	2.2
Attenuation:						
1~2400 MHz			dB	30	36	-
45 MHz			dB	50	65	-
2400~2500 MHz			dB	32	37	-
2500~2570 MHz			dB	35	38	-
2570~2600 MHz			dB	2	4	-
2775~6000 MHz			dB	15	30	-
7620~7830 MHz			dB	15	25	-
7860~8000 MHz			dB	15	24	-

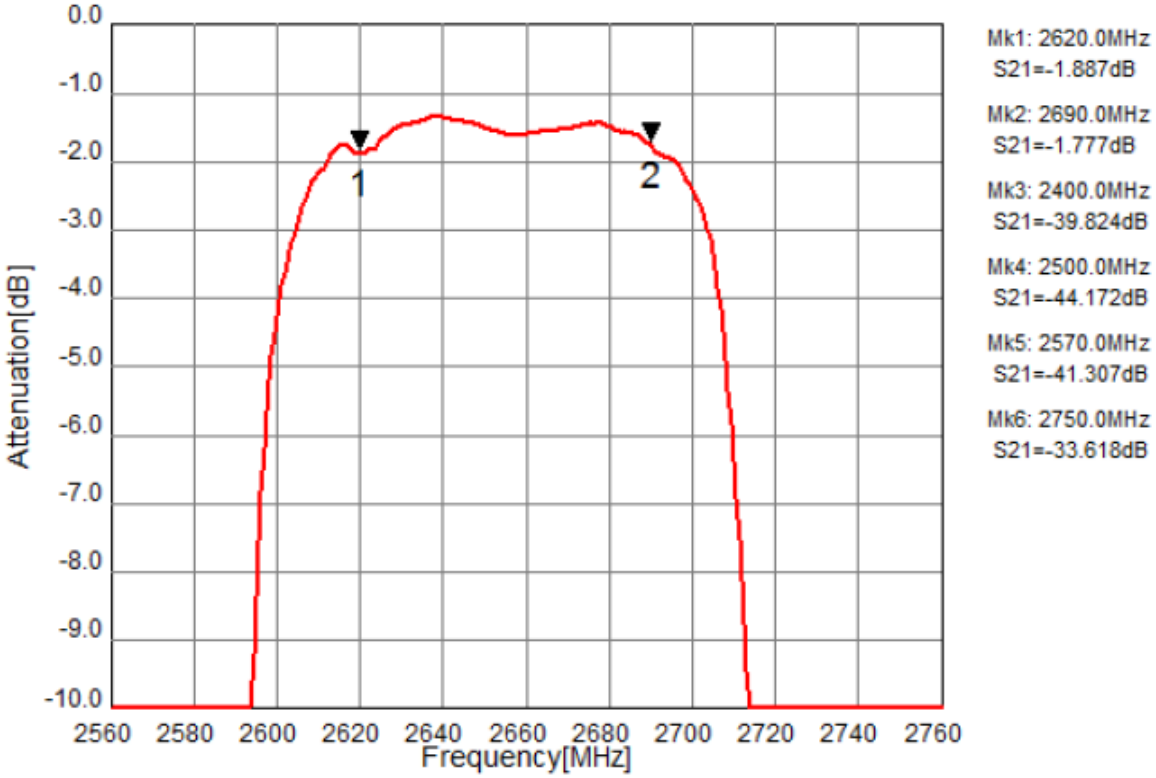
(*1) Specification of insertion loss includes loss that comes from the test board.

C. FREQUENCY CHARACTERISTICS:

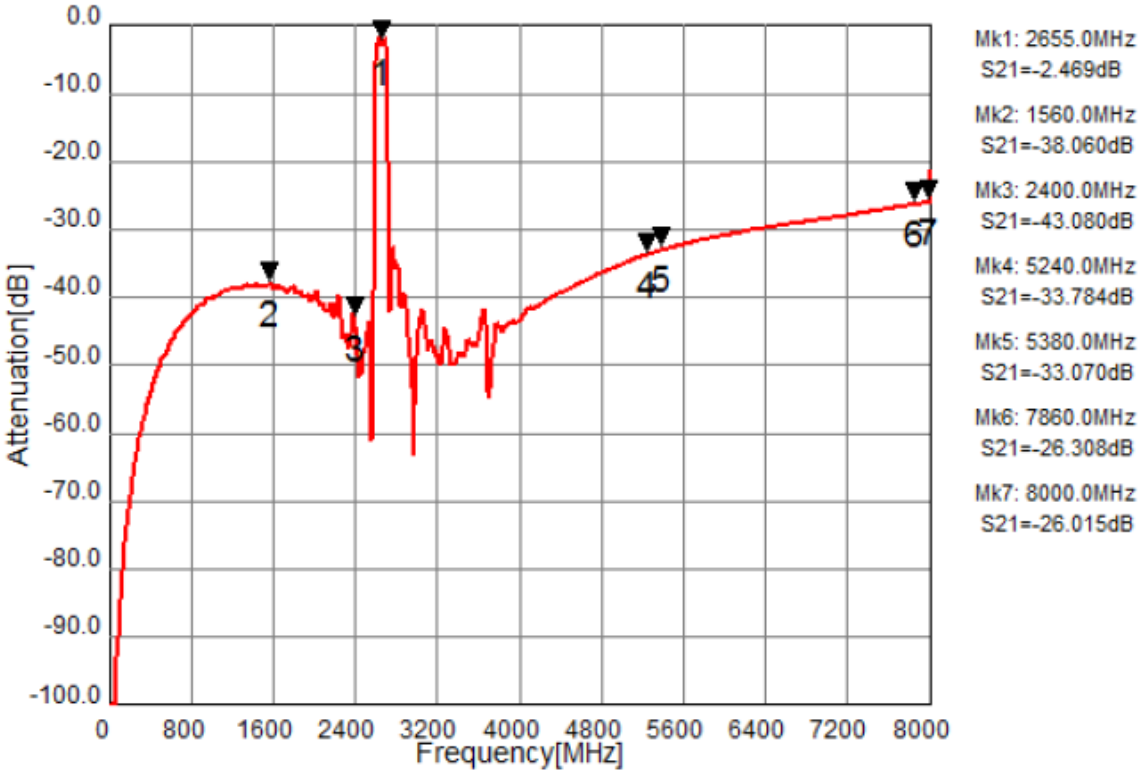
Pass-band



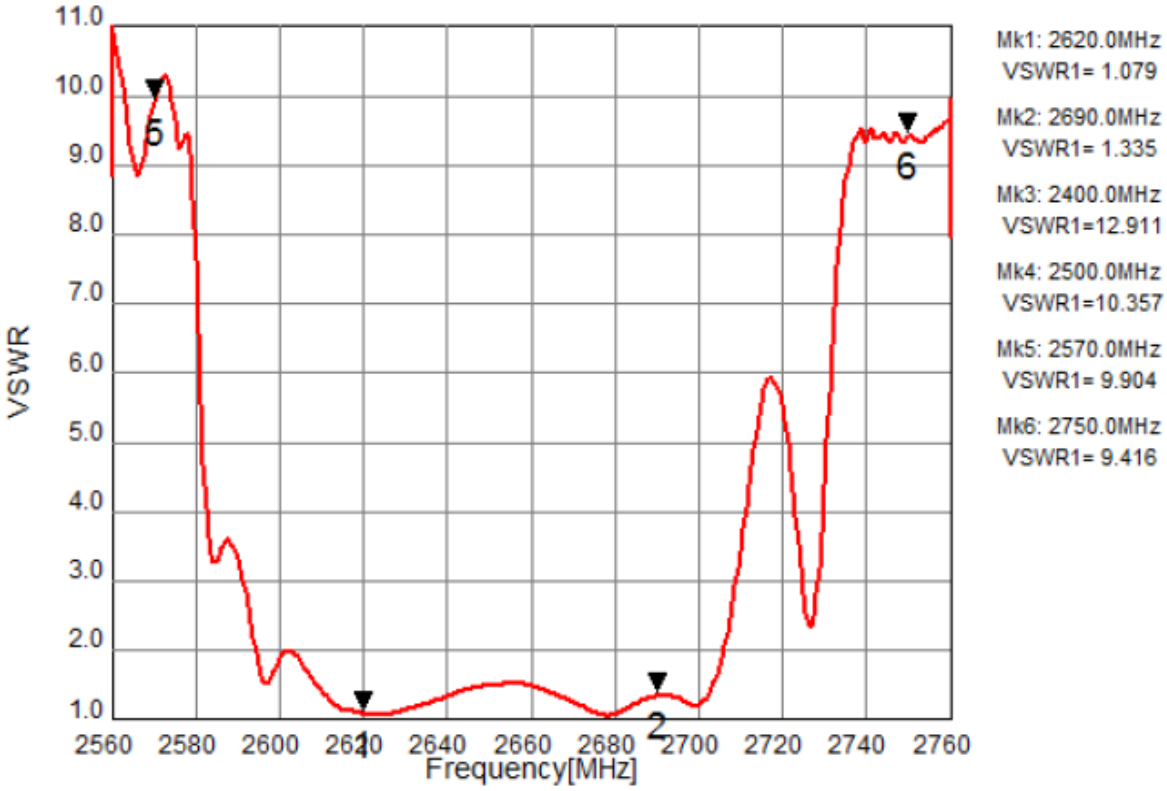
In-band



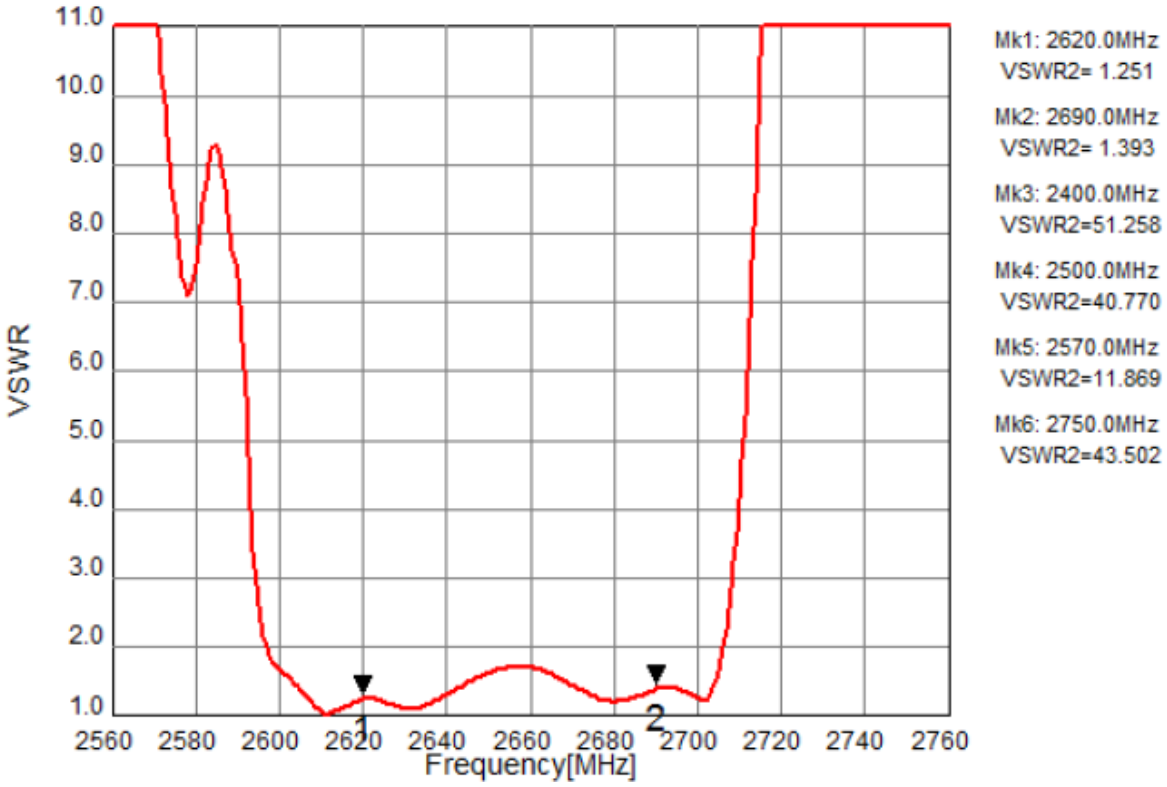
Wide-band


0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
Attenuation[dB]
0
800
1600
2400
3200
4000
4800
5600
6400
7200
8000
Frequency[MHz]
1
2
3
45
67
Mk1: 2655.0MHz
S21=-2.469dB
Mk2: 1560.0MHz
S21=-38.060dB
Mk3: 2400.0MHz
S21=-43.080dB
Mk4: 5240.0MHz
S21=-33.784dB
Mk5: 5380.0MHz
S21=-33.070dB
Mk6: 7860.0MHz
S21=-26.308dB
Mk7: 8000.0MHz
S21=-26.015dB

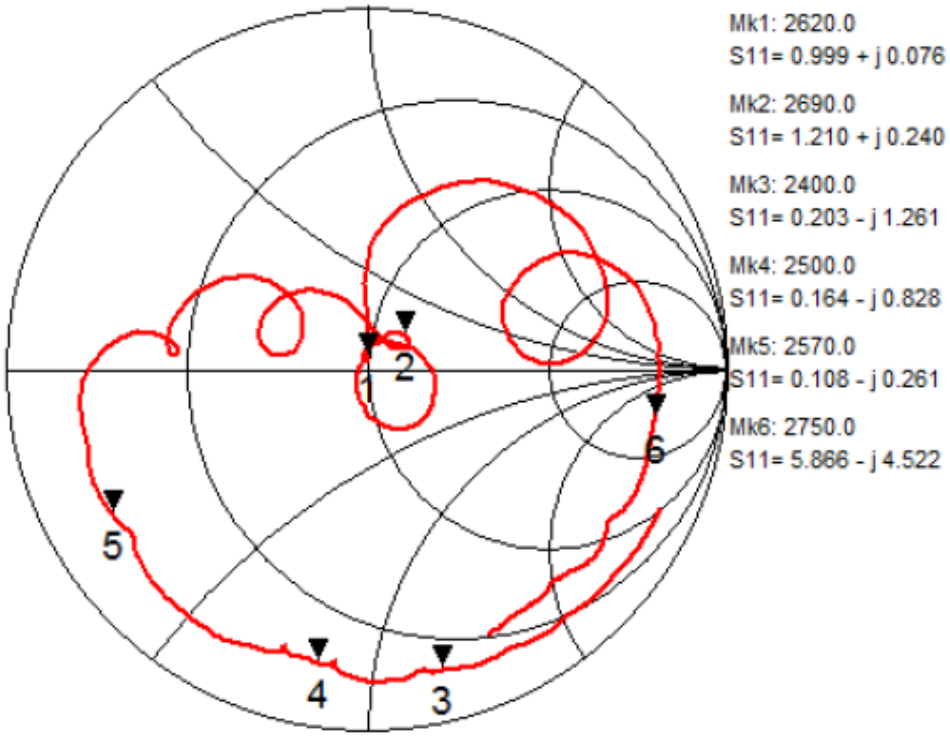
VSWR (Input)



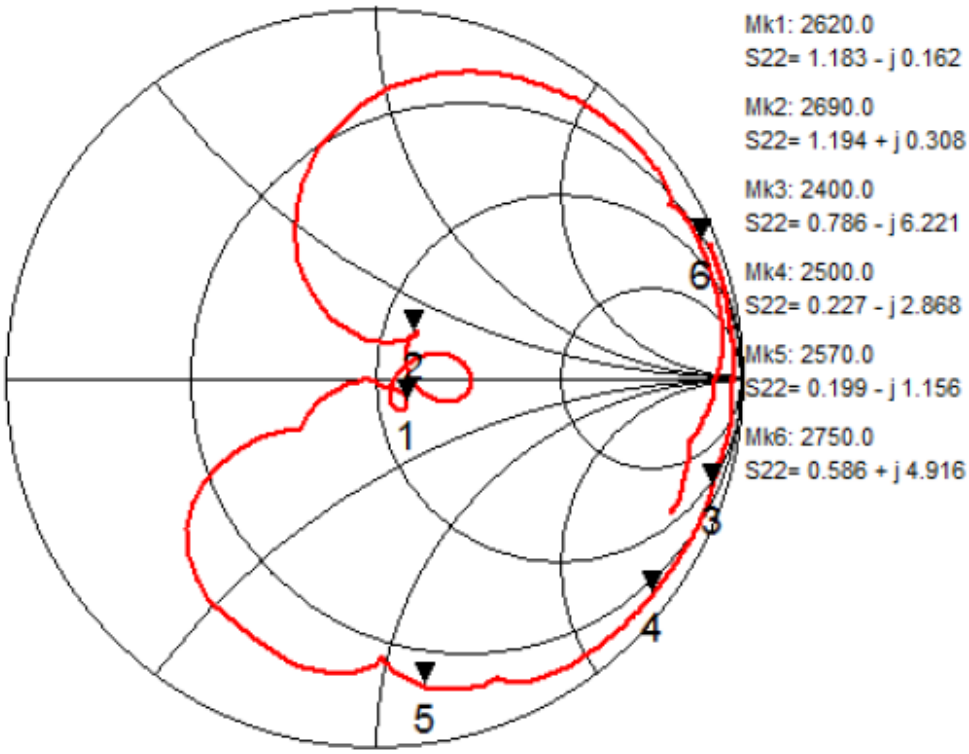
VSWR (Output)



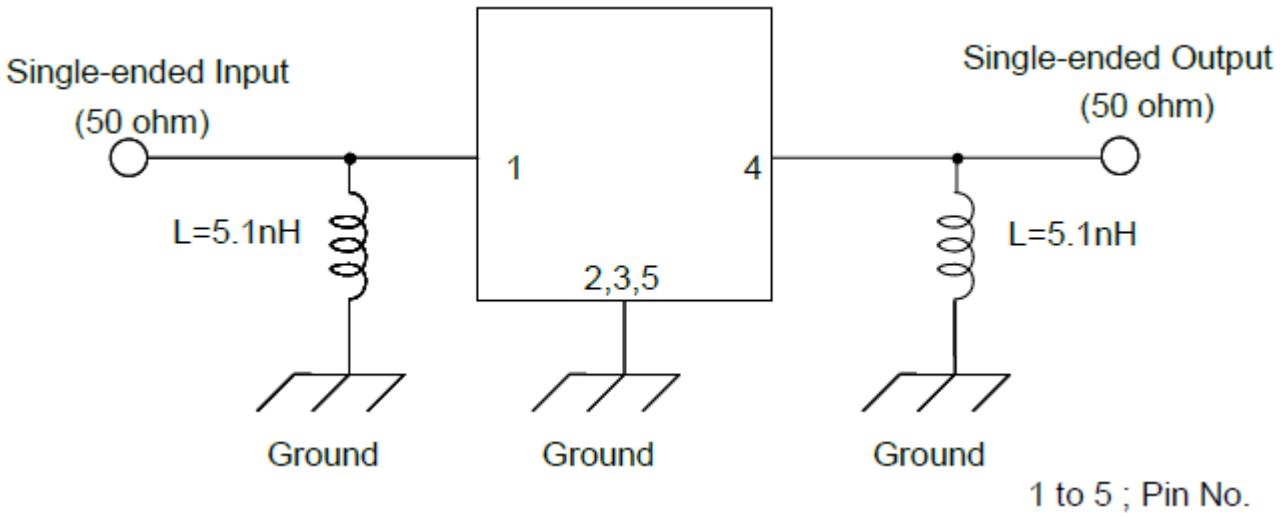
Input Impedance



Output Impedance

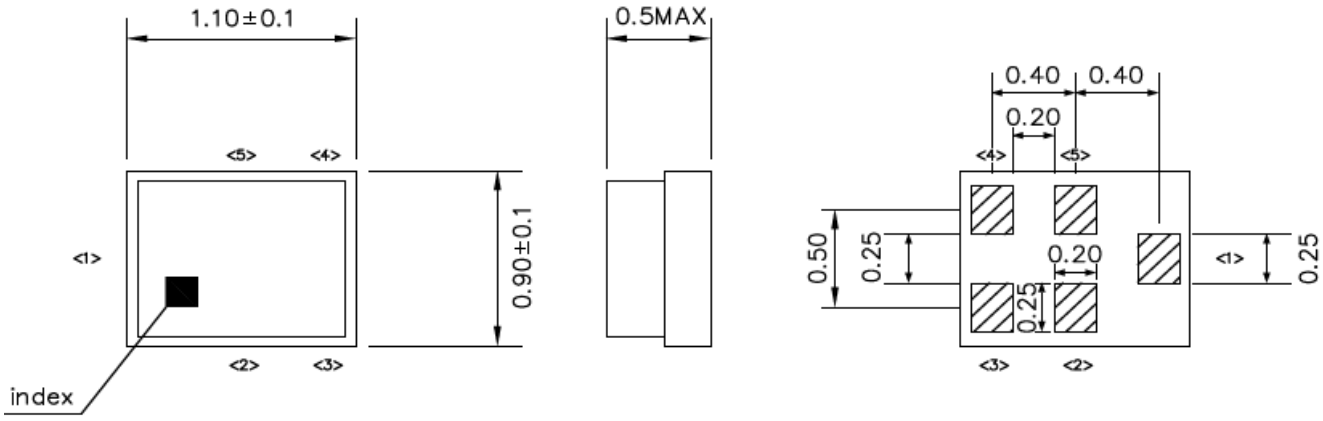


D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:

Device size: 1.1typ. x 0.9typ. x 0.5max.

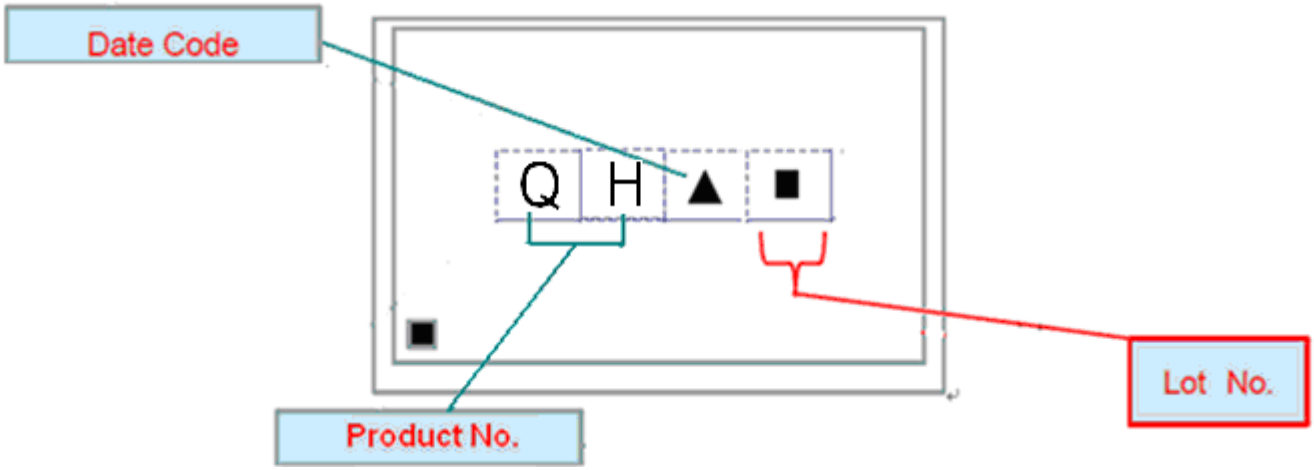


Unit : mm

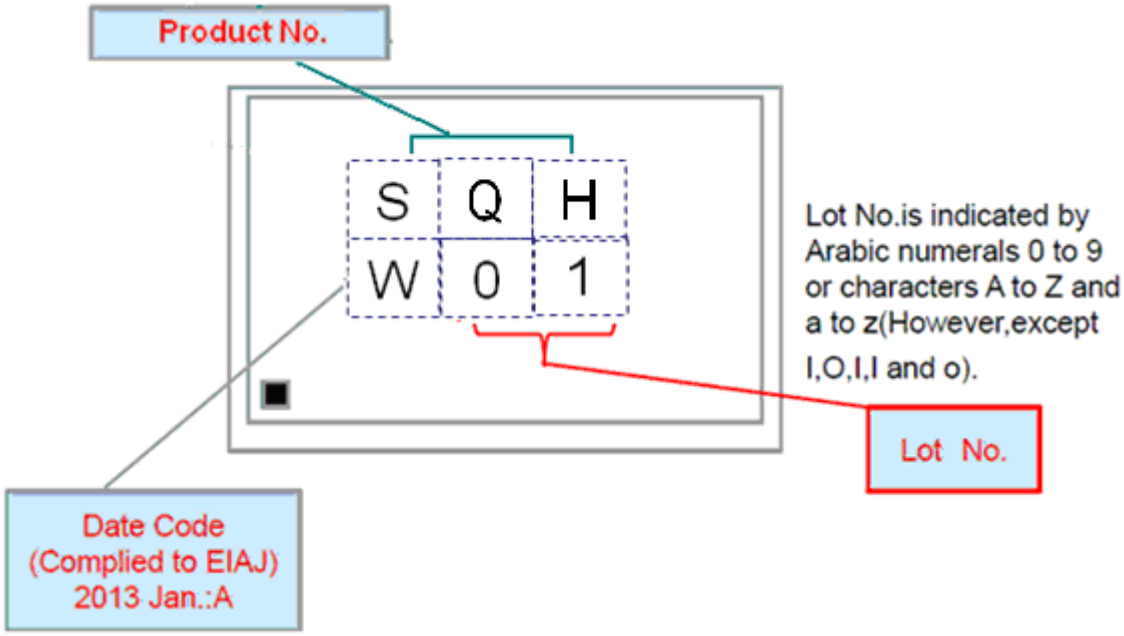
Pin Configuration

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):

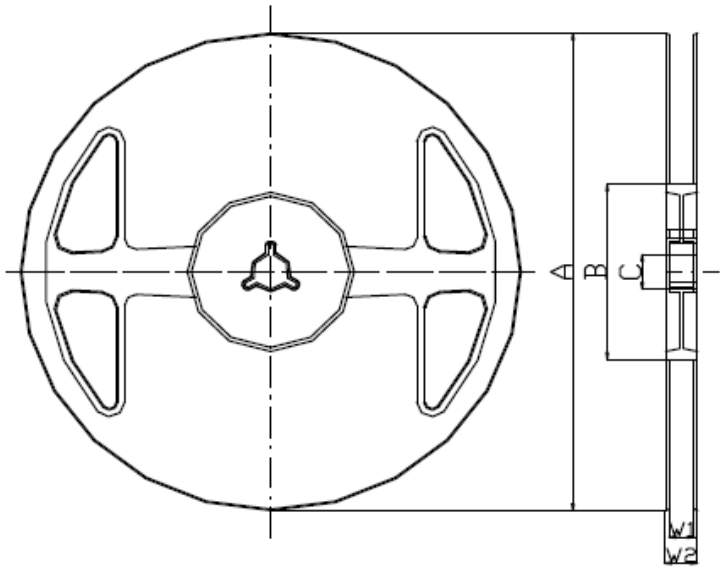


Product date Code (EIAJ)

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

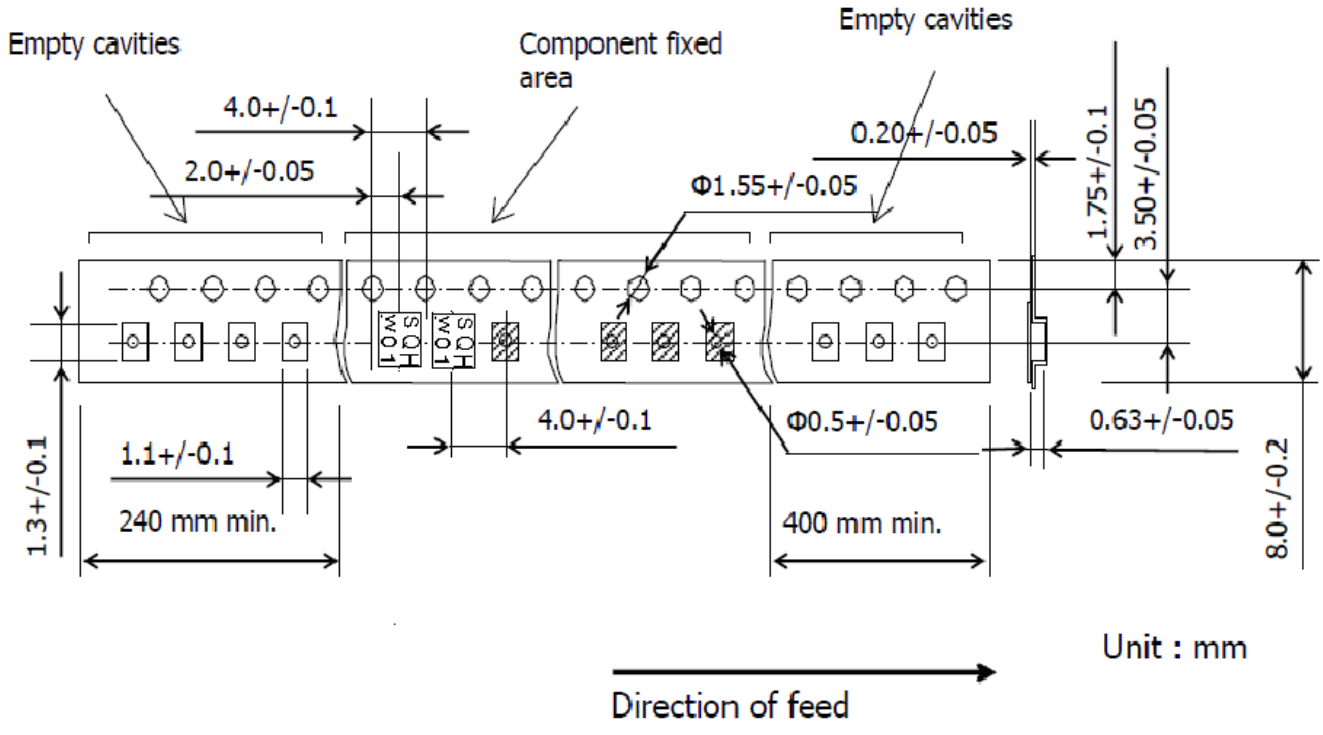
Color : Black

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.