



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: SAW Rx Filter 2655MHz LTE Band 7 SMD 1109

TST Part No.: TA1847C

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2017, 04. 05

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 Rx Filter 2655MHz LTE Band 7 SMD 1109 (70MHz BW)

MODEL NO.: TA1847C

REV. NO.:2

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +85 °C
2. Storage temperature range: -40 °C to +100 °C
3. Maximum Input Power: +10 dBm
4. Maximum DC Voltage: +/-5 V
5. Moisture Sensitivity Level: Level 1
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50//5.1\text{nH } \Omega$ (Single-ended)

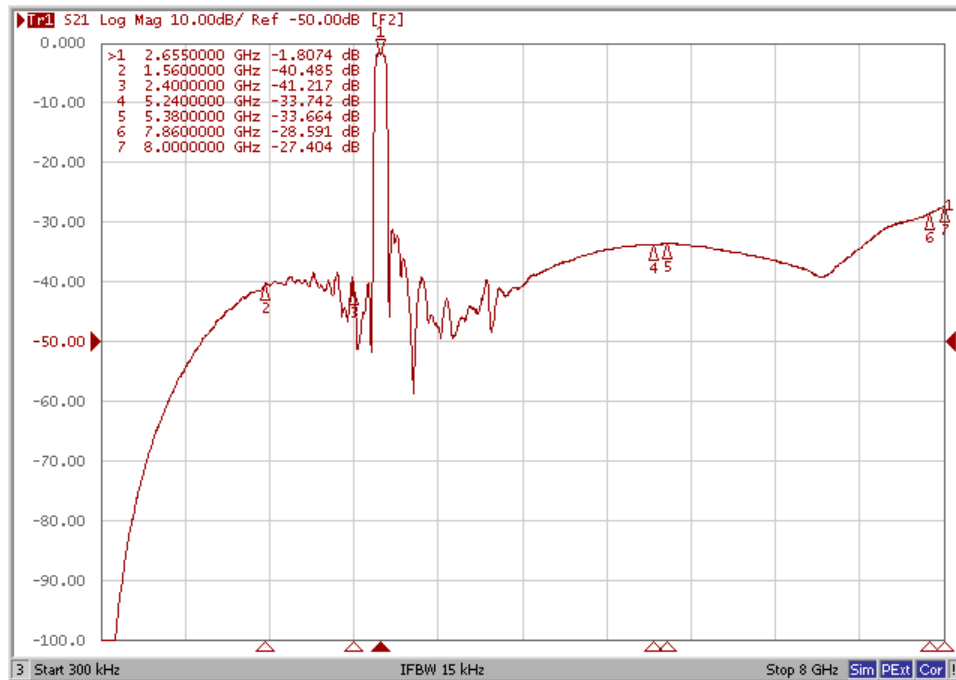
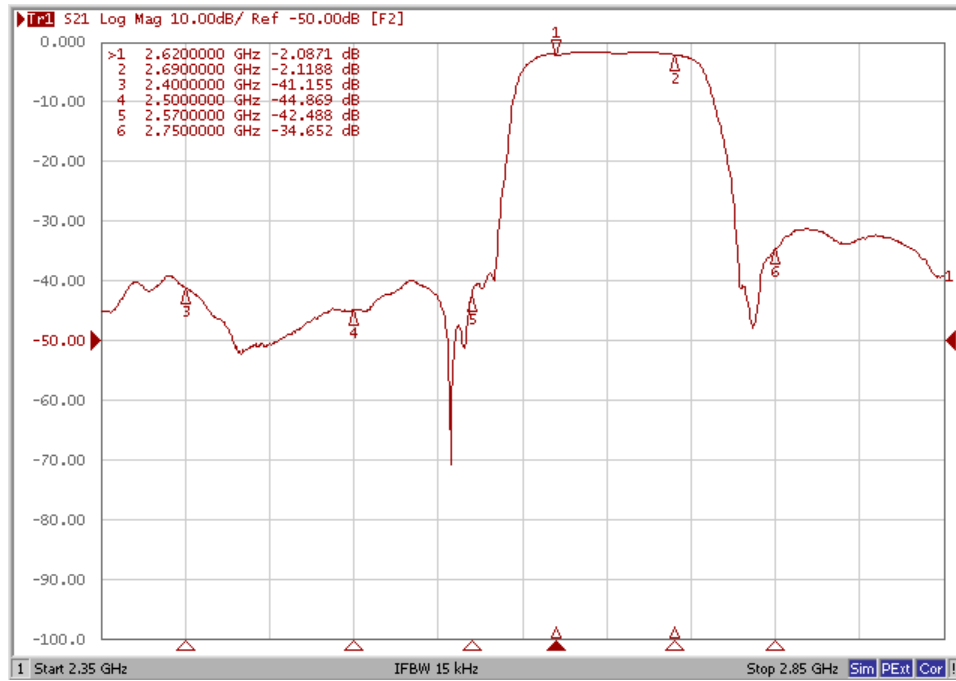
Terminating load impedance: $Z_L = 50//5.1\text{nH } \Omega$ (Single-ended)

Parameters Description			Unit	Min.	Typ.I	Max.	Remark
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	-	

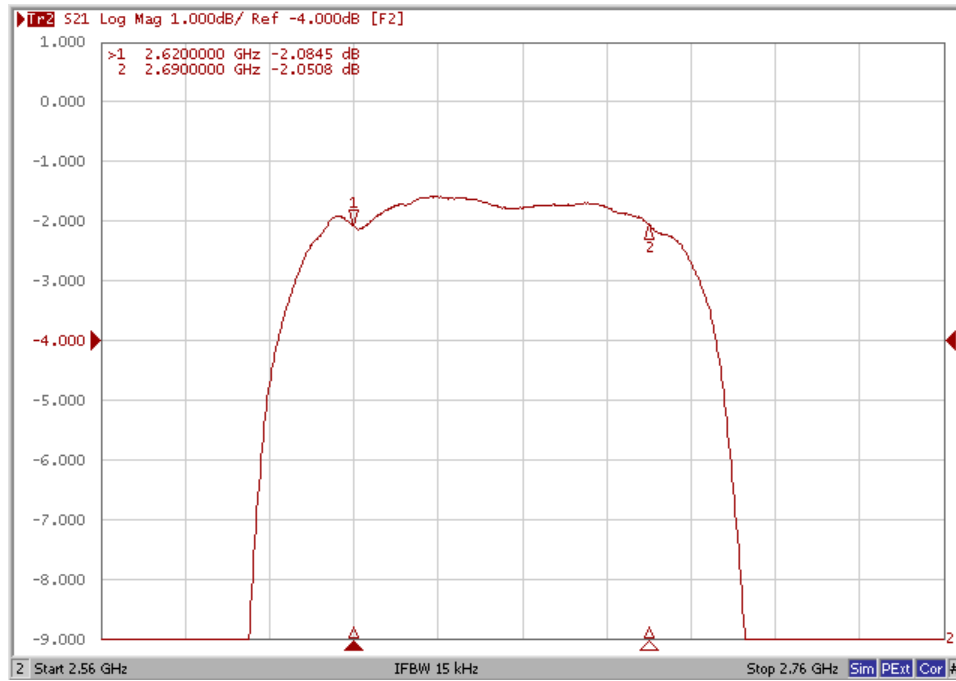
(*1) Specification of insertion loss includes loss that comes from the test board.

C. FREQUENCY CHARACTERISTICS:

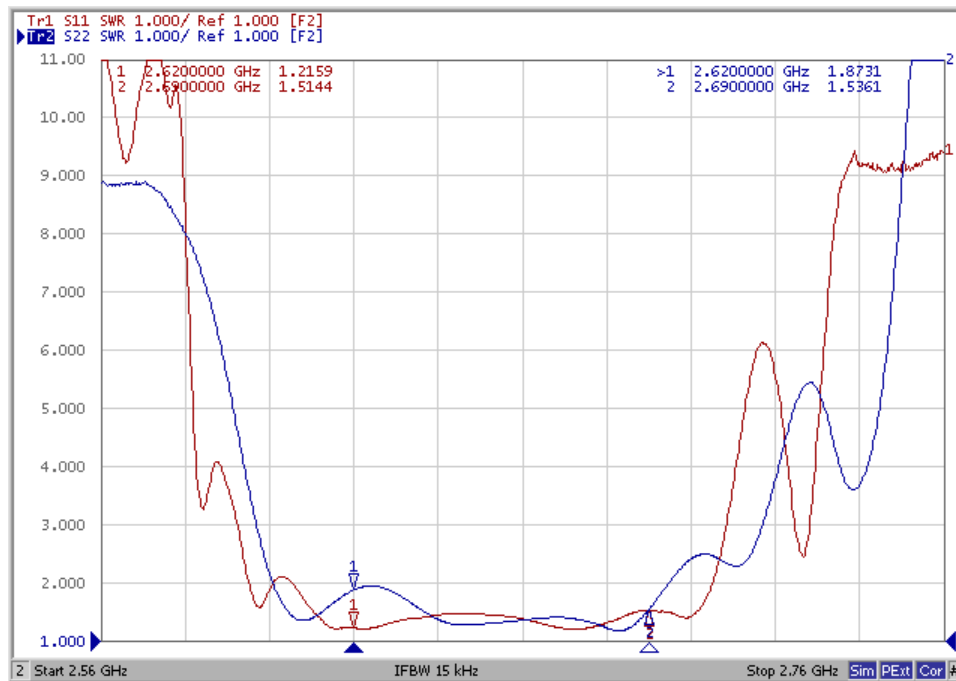
Frequency Response



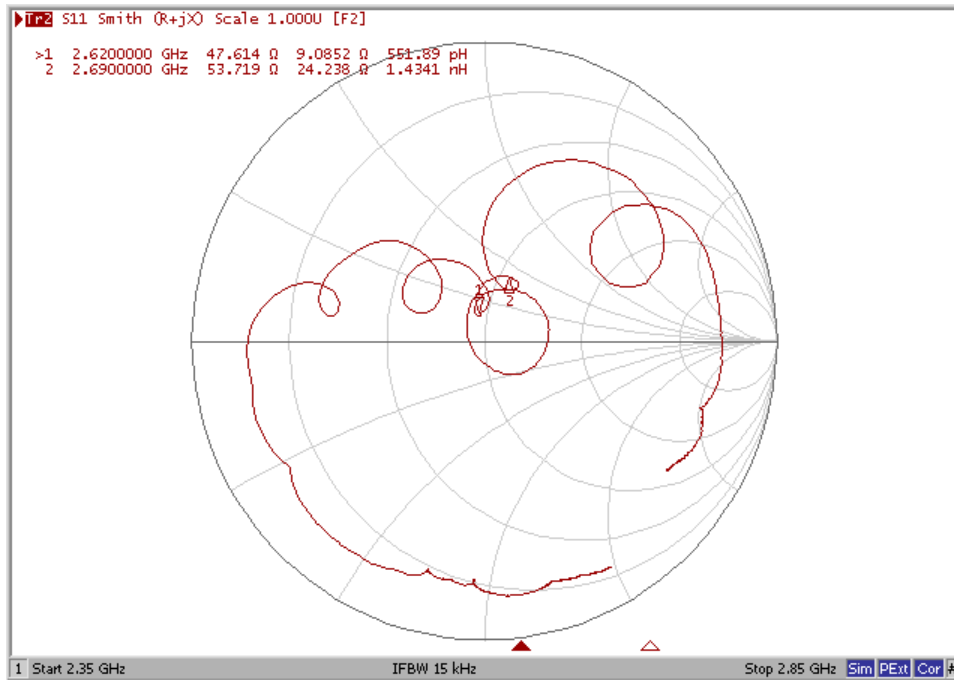
Ripple



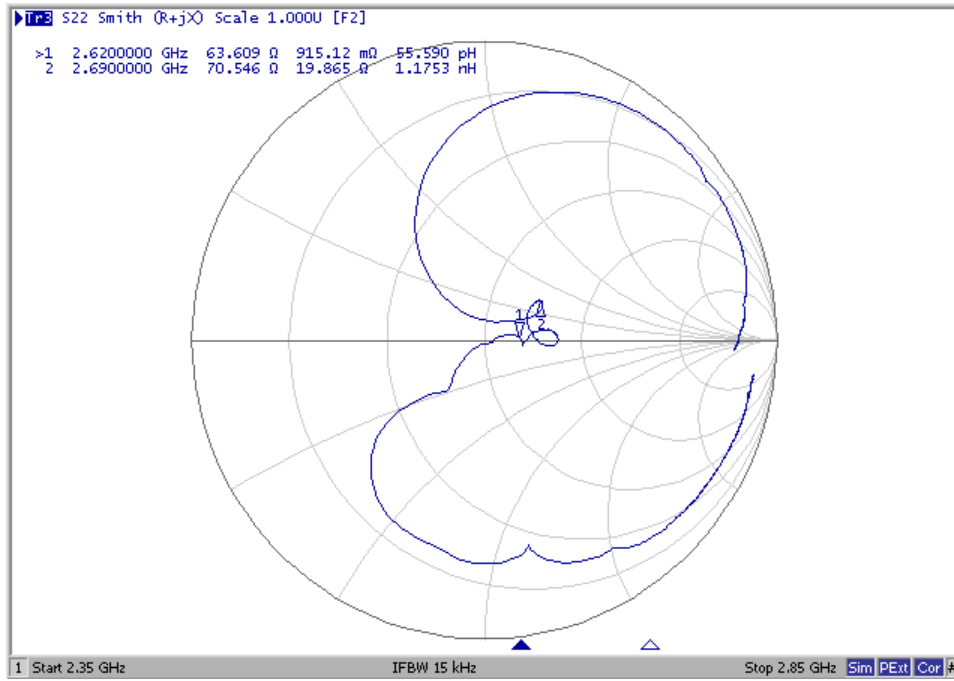
VSWR



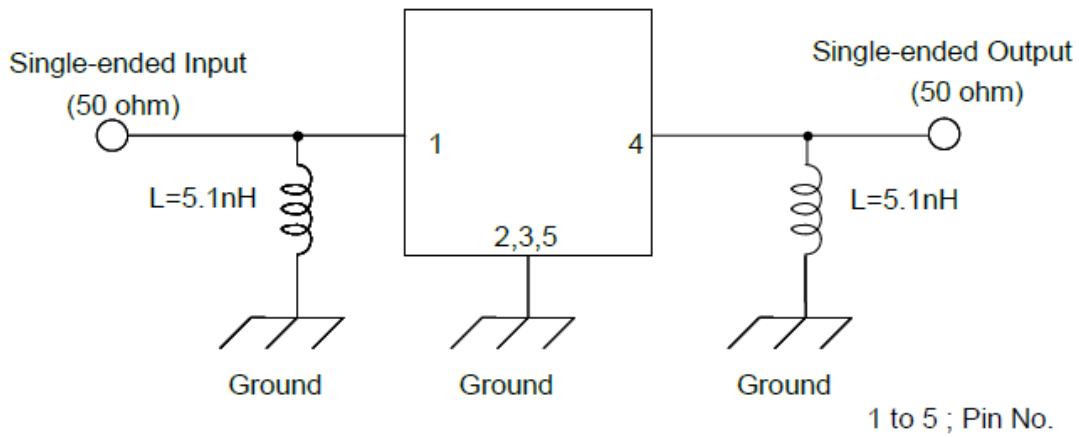
Smith Chart (S11)



Smith Chart (S22)

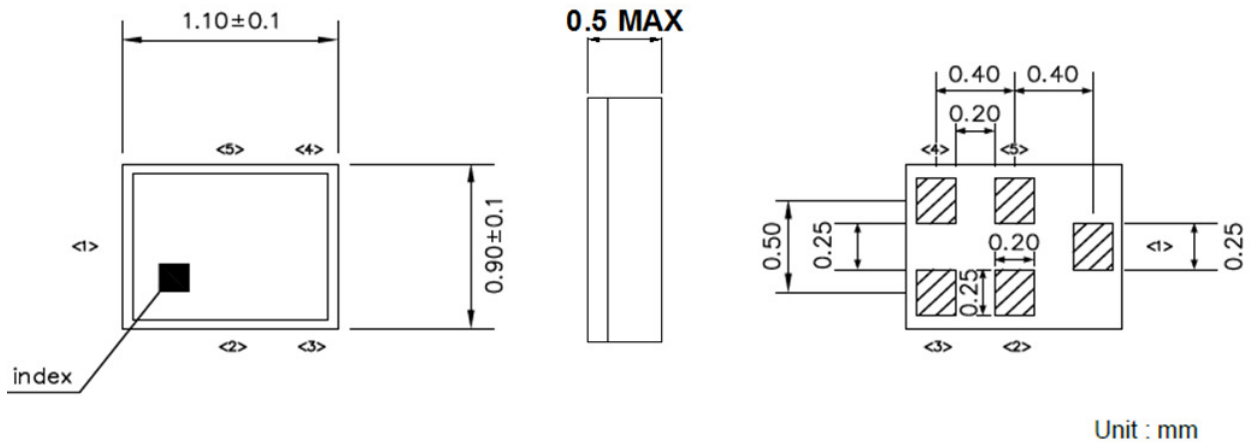


D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:

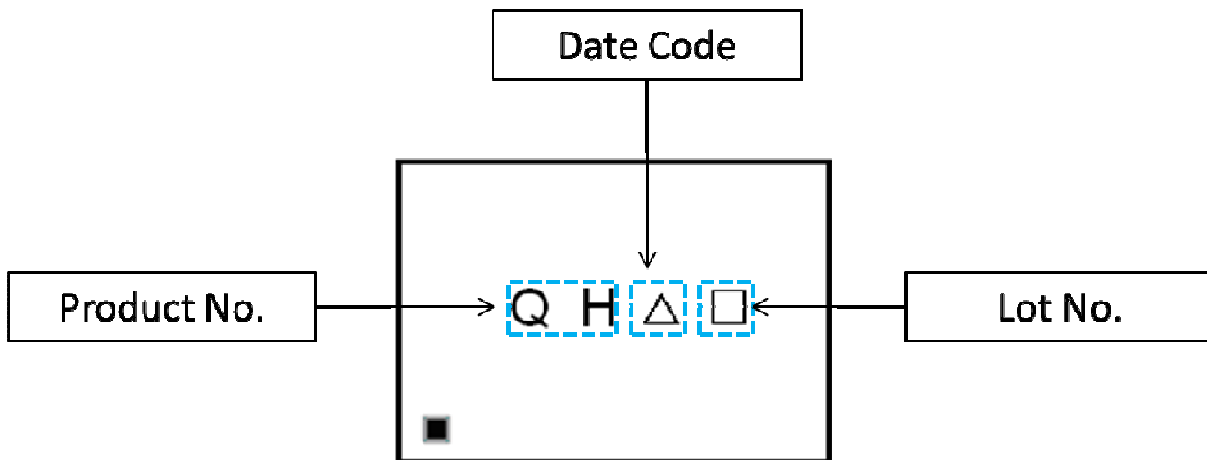
Device size: 1.1typ. x 0.9typ. x 0.5max.



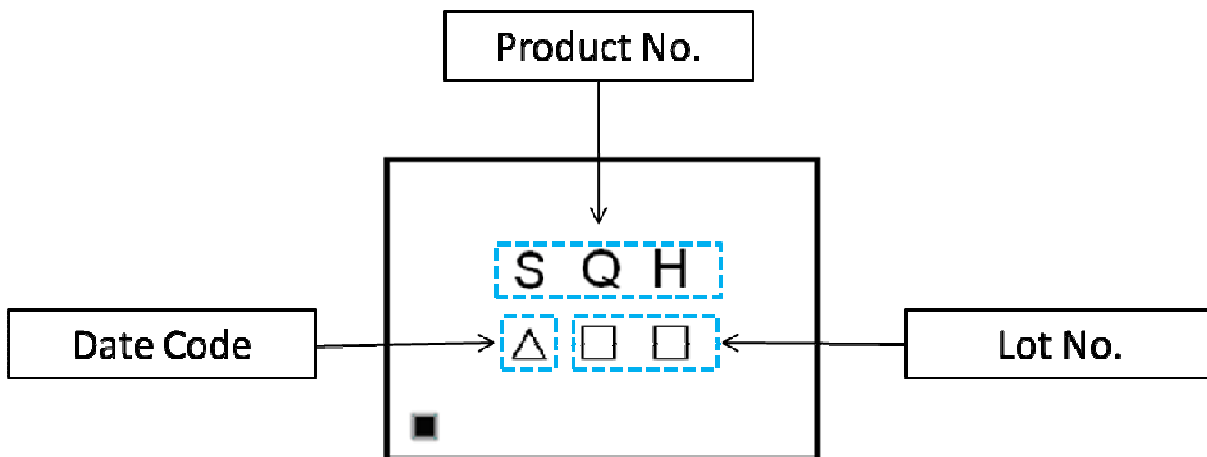
Pin Configuration

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):



△ : Date Code

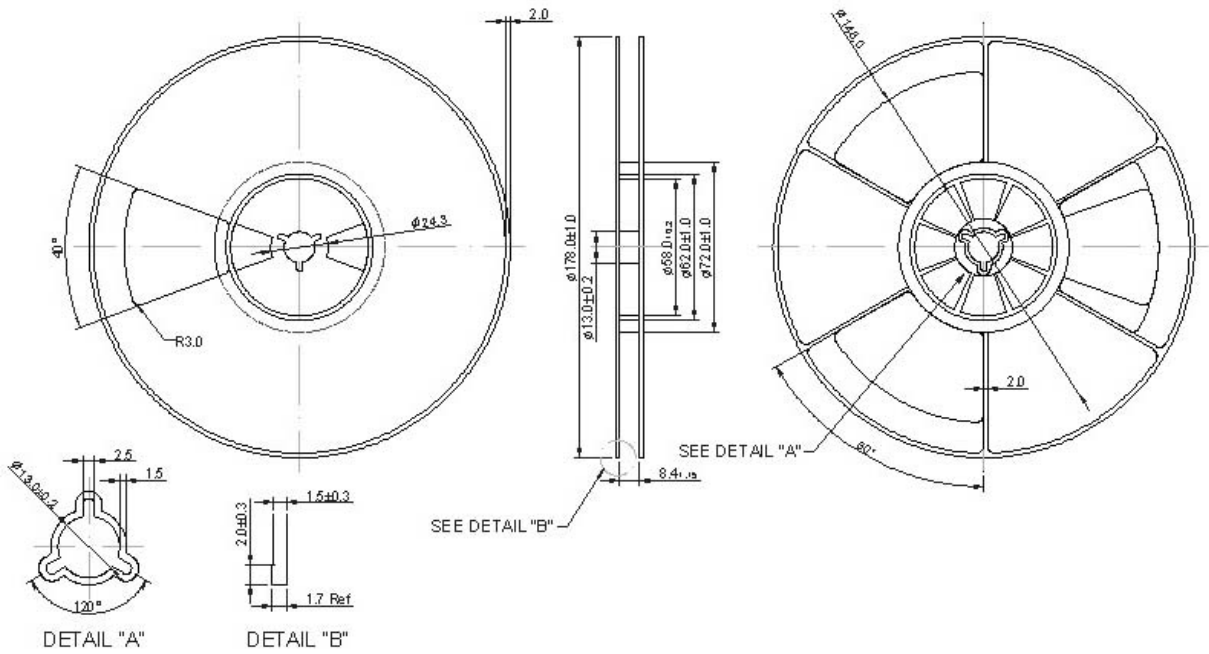
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Product date Code (EIAJ)

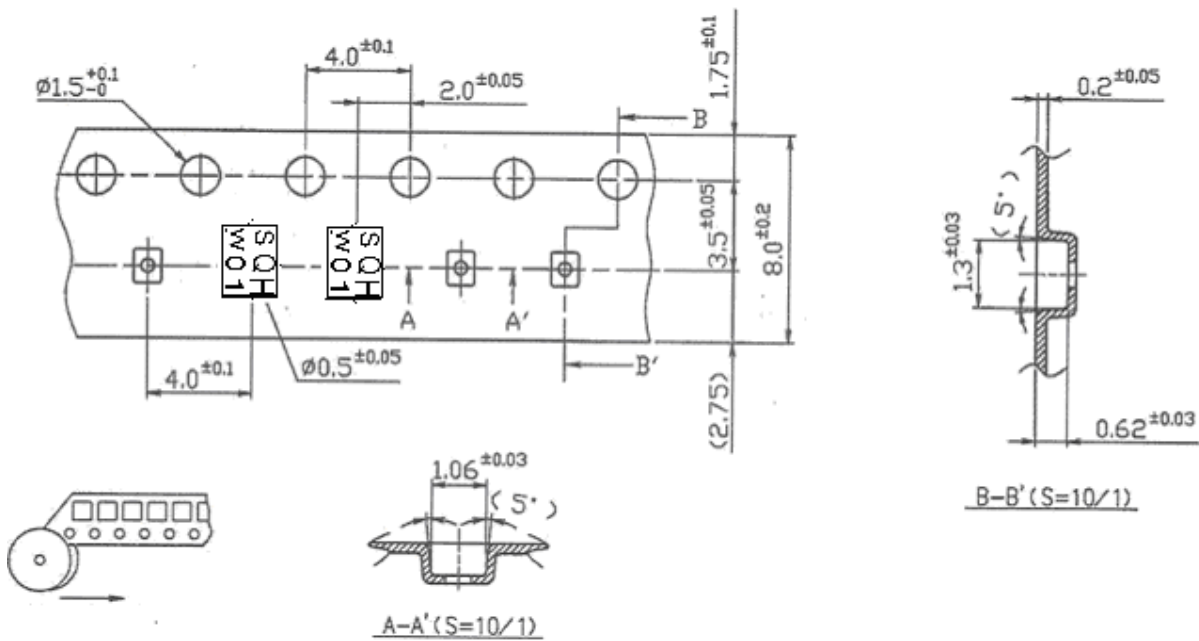
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

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.

