



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 806 MHz Band 20 Rx SMD 1.4X1.1 mm (BW=30 MHz)

TST Part No.: TA1953A

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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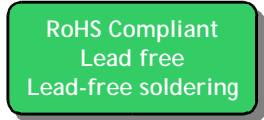
SAW Filter 806 MHz Band 20 Rx SMD 1.4X1.1 mm (BW=30 MHz)

MODEL NO.:TA1953A

REV. NO.:1

A. MAXIMUM RATING:

1. Maximum Input Power: 10 dBm
2. Operating Temperature: -20 °C to +85 °C
3. Storage Temperature: -40 °C to +85 °C



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

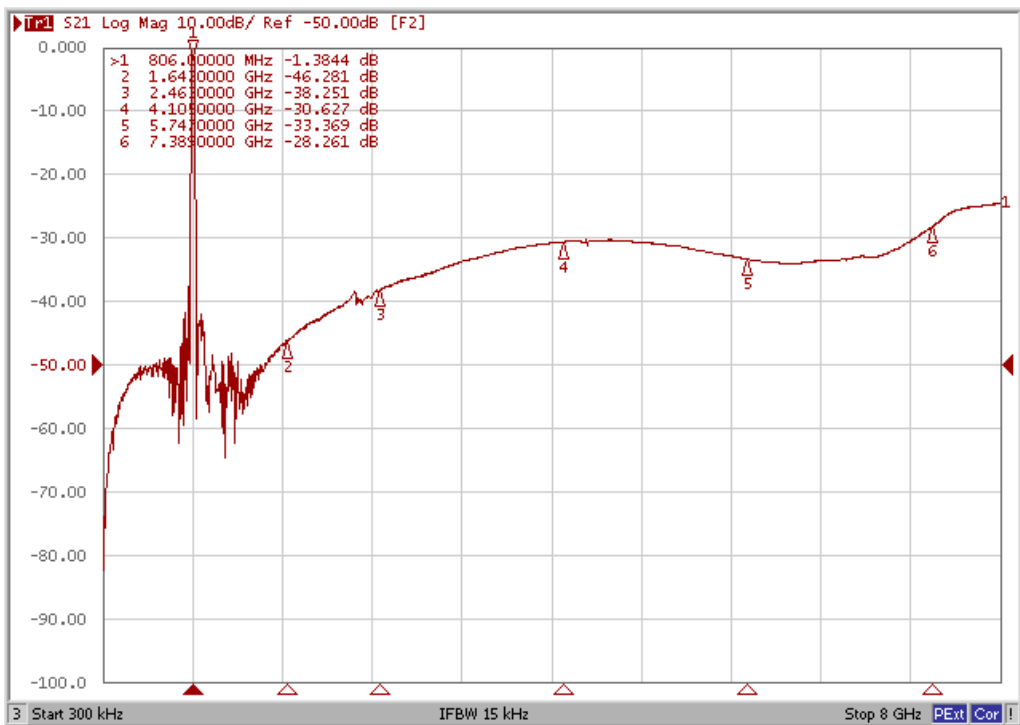
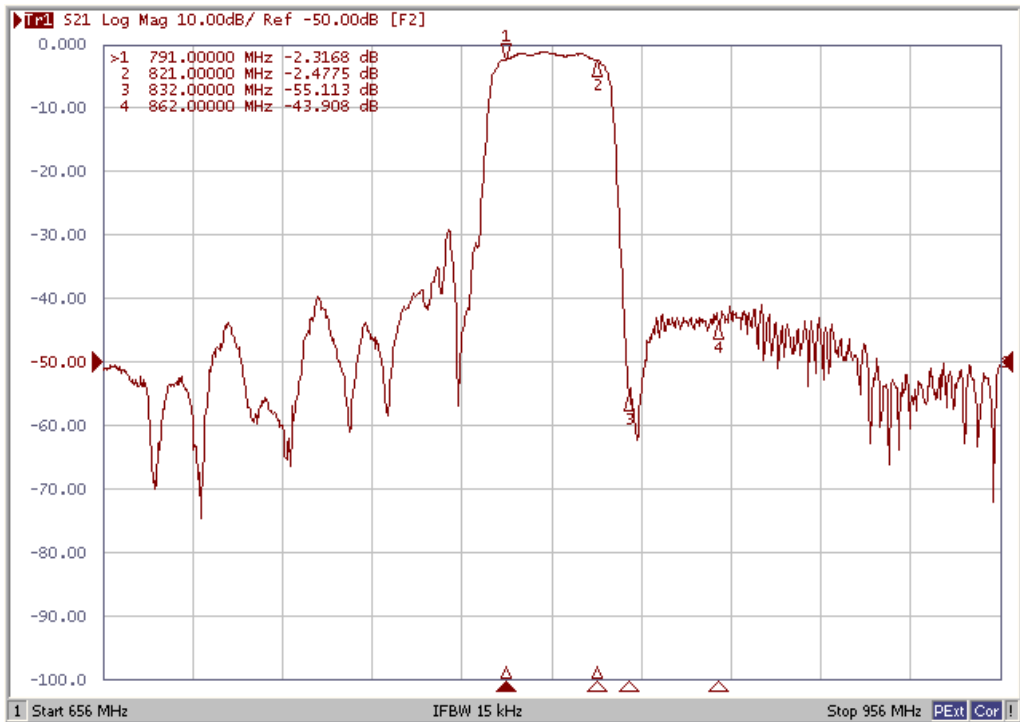
Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.	
Center Frequency		MHz	-	806	-	
Insertion Loss	791~821 MHz	dB	-	2.5	3.8	
Amplitude Ripple	791~821 MHz	dB _{p-p}	-	1.3	2.5	
VSWR	Input	791~821 MHz	-	-	2.0	2.3
	Output	791~821 MHz	-	-	2.0	2.3
Attenuation:						
832.0 ~ 862.0 MHz		dB	37	41	-	
1559.0 ~ 1607.0 MHz		dB	40	47	-	
1582.0 ~ 1642.0 MHz		dB	40	46	-	
2373.0 ~ 2463.0 MHz		dB	30	38	-	
2400.0 ~ 2500.0 MHz		dB	30	37	-	
3164.0 ~ 3284.0 MHz		dB	20	33	-	
3955.0 ~ 4105.0 MHz		dB	20	30	-	
4746.0 ~ 4926.0 MHz		dB	20	28	-	
5537.0 ~ 5747.0 MHz		dB	20	26	-	
6328.0 ~ 6568.0 MHz		dB	15	25	-	
7119.0 ~ 7389.0 MHz		dB	15	24	-	

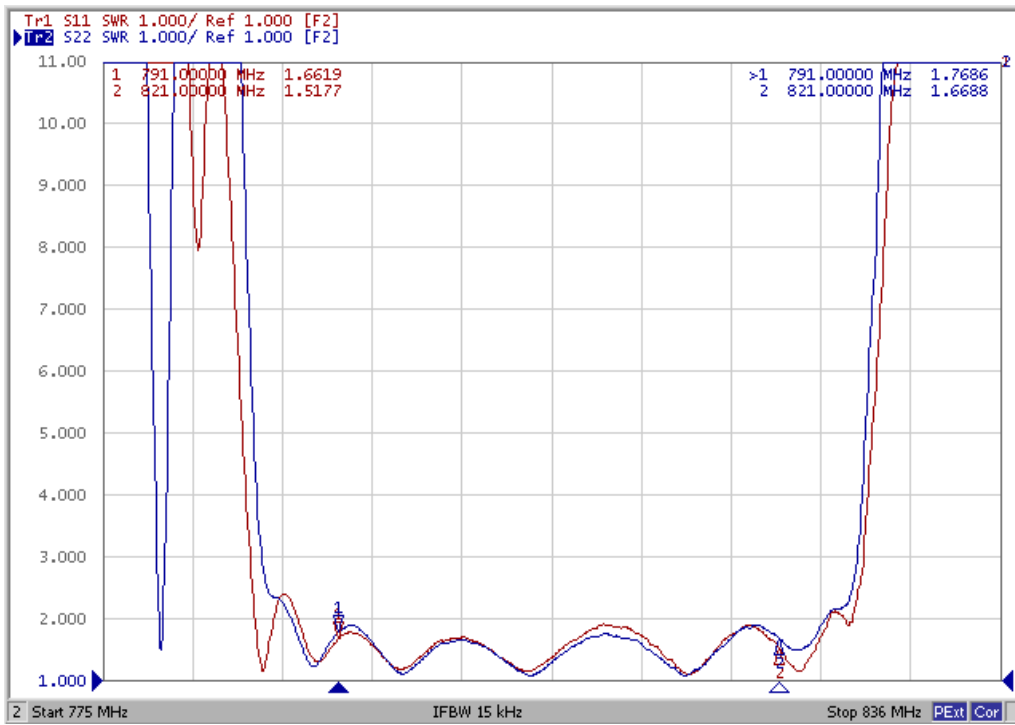
Notes: (1) No Matching Network.

C. FREQUENCY CHARATERISTIC:

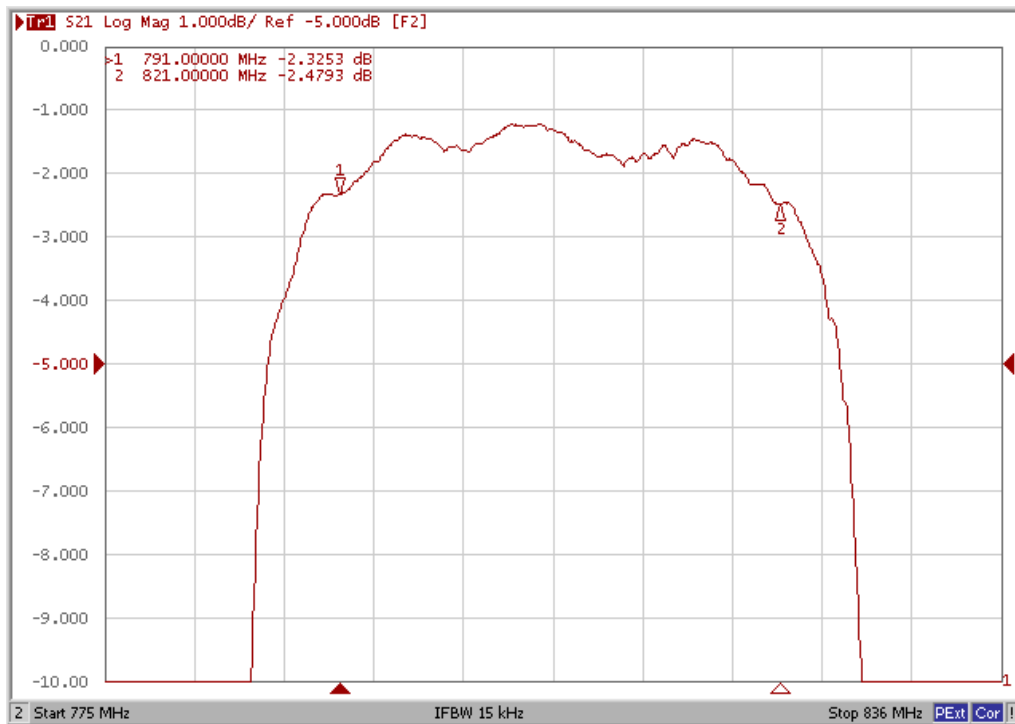
Frequency Response



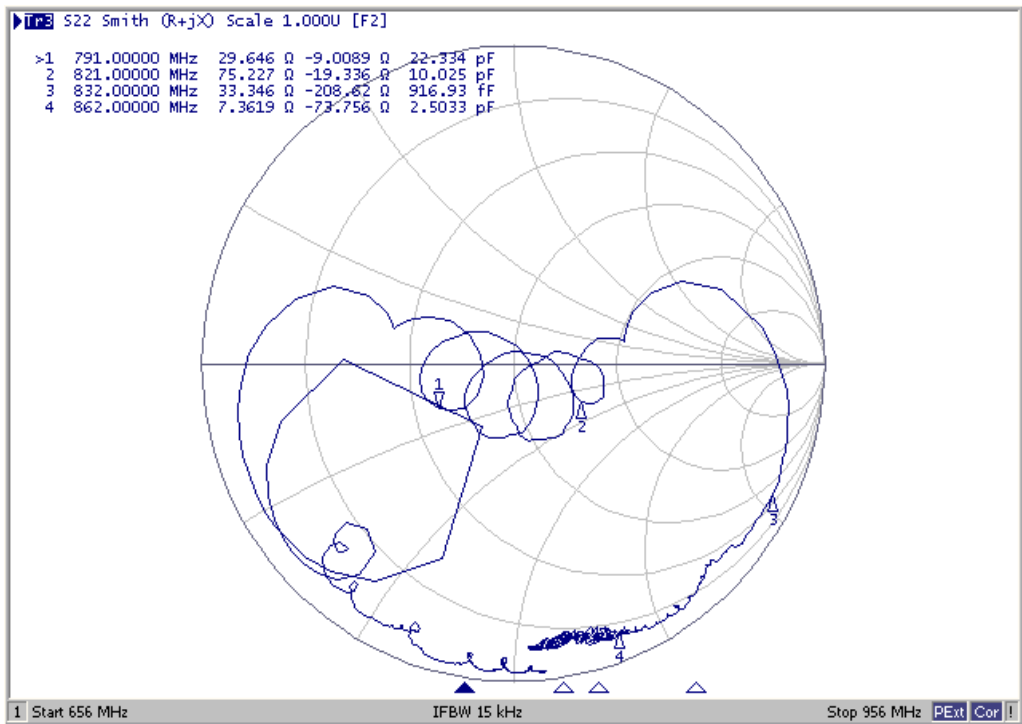
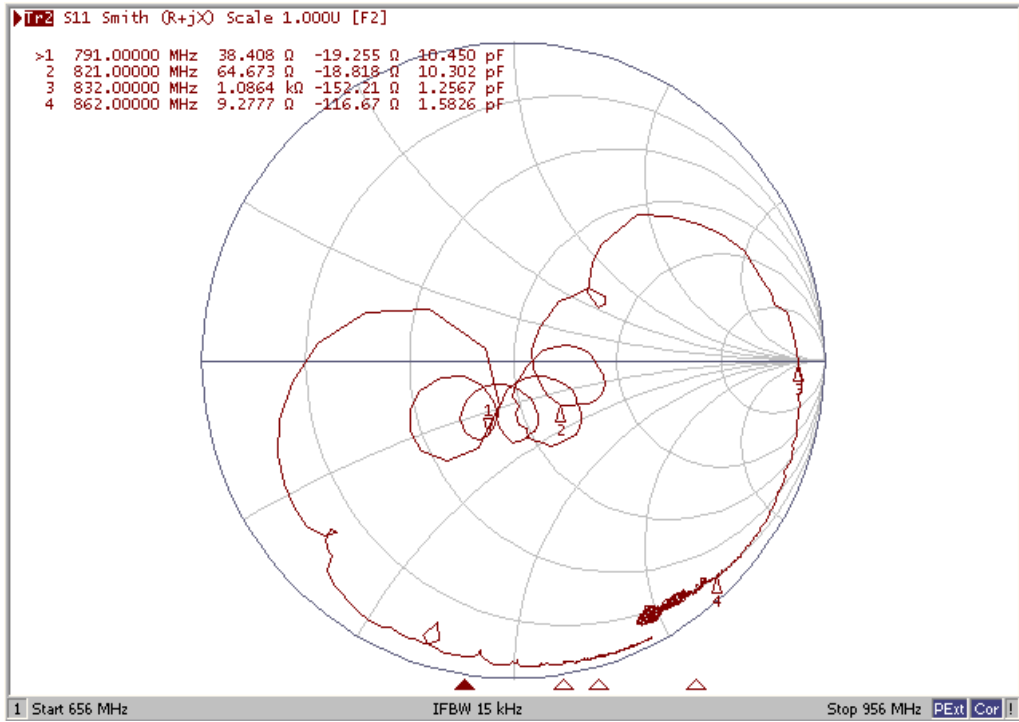
VSWR



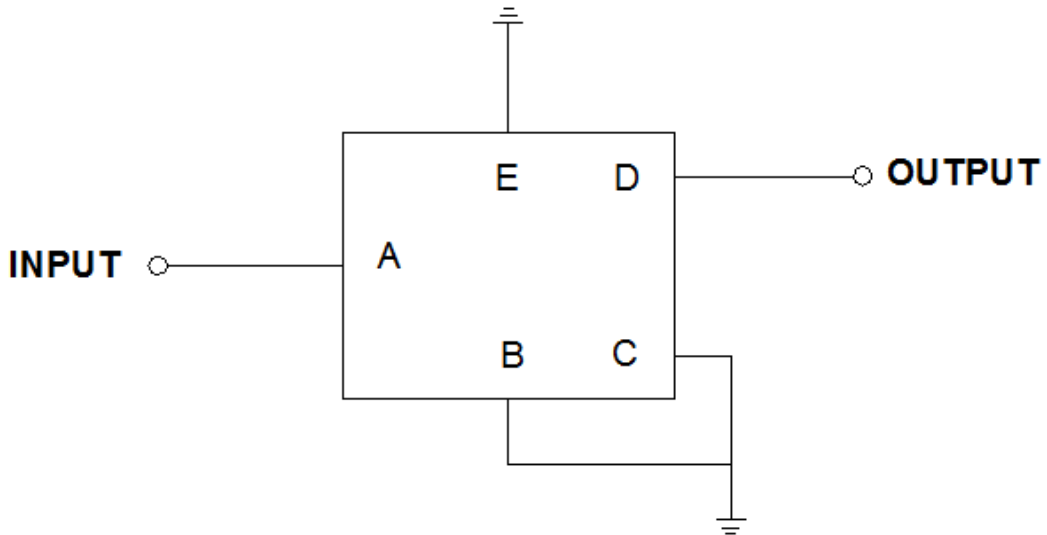
Ripple



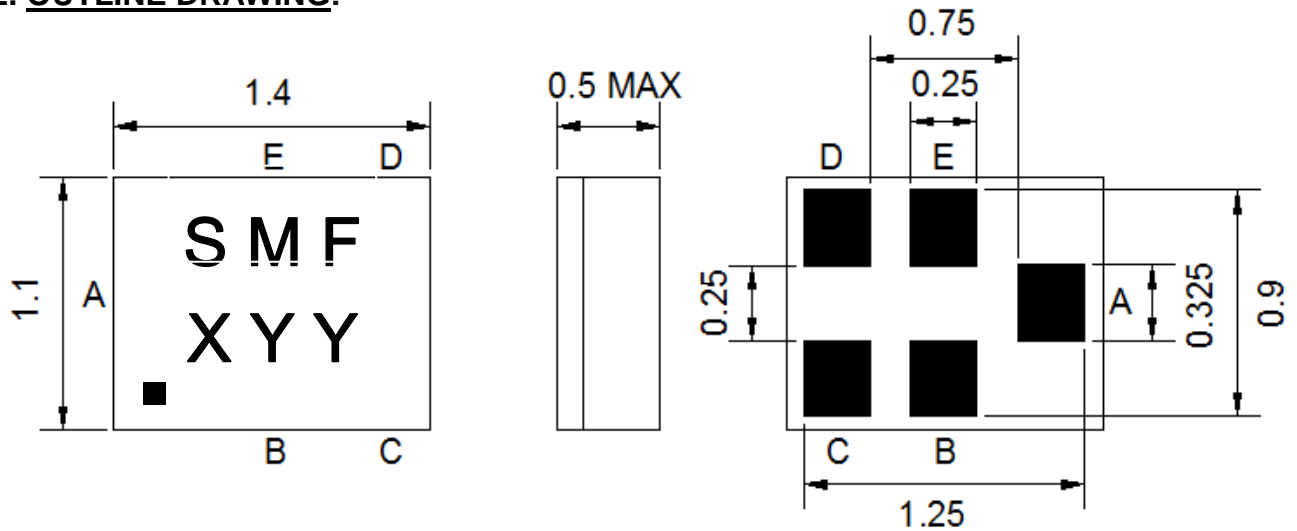
Smith Chart



D. MEASUREMENT CIRCUIT:



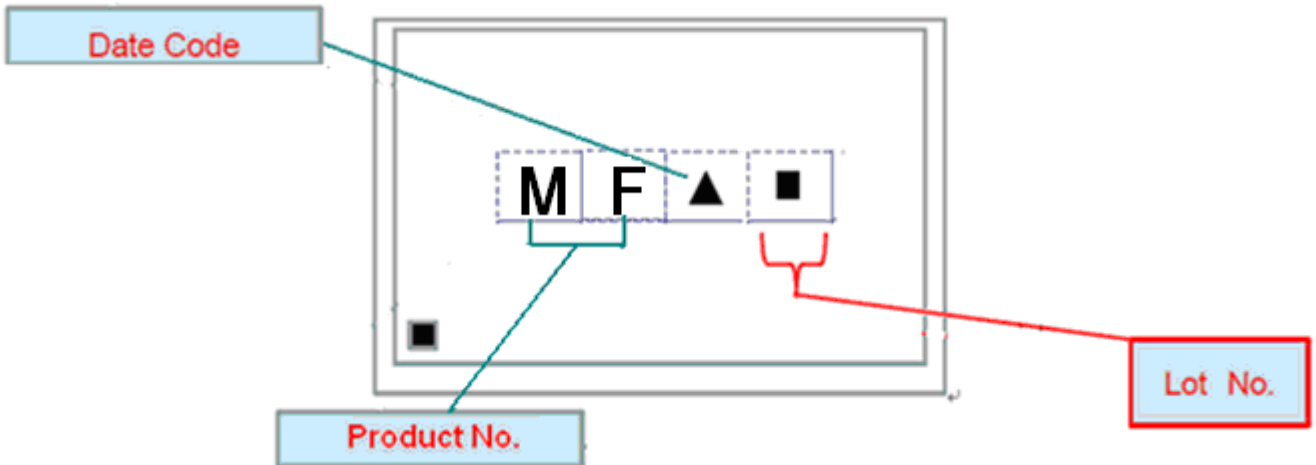
E. OUTLINE DRAWING:



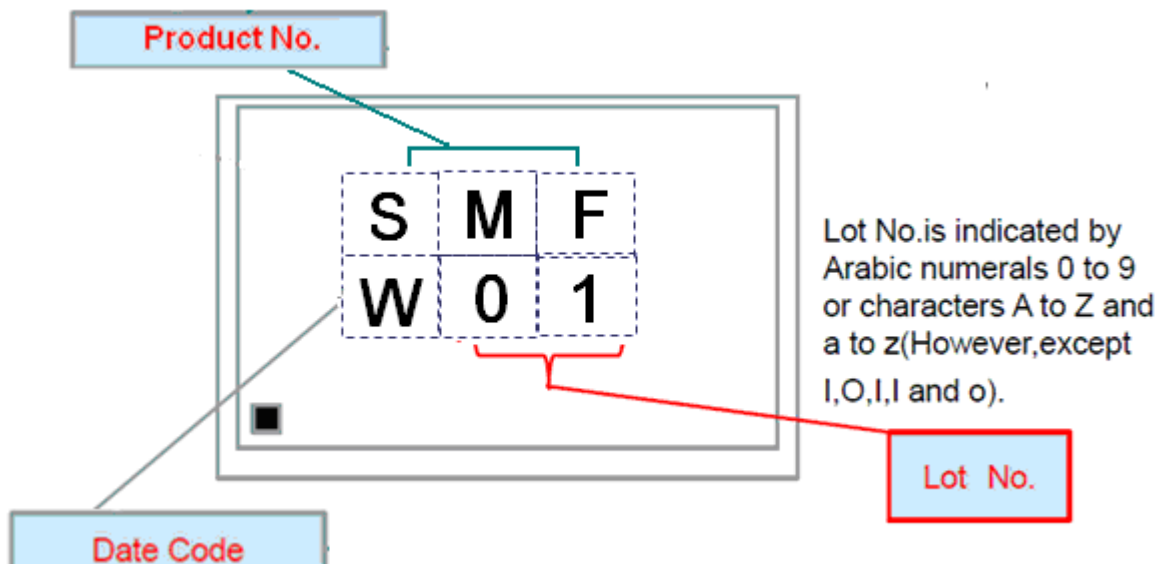
Marking Descriptions	
S	Series Number 1
MF	Series Number 2
X	Date Code(Year+Month)
YY	Lot No

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

Top View (Sample Production):



Top View (Mass Production):

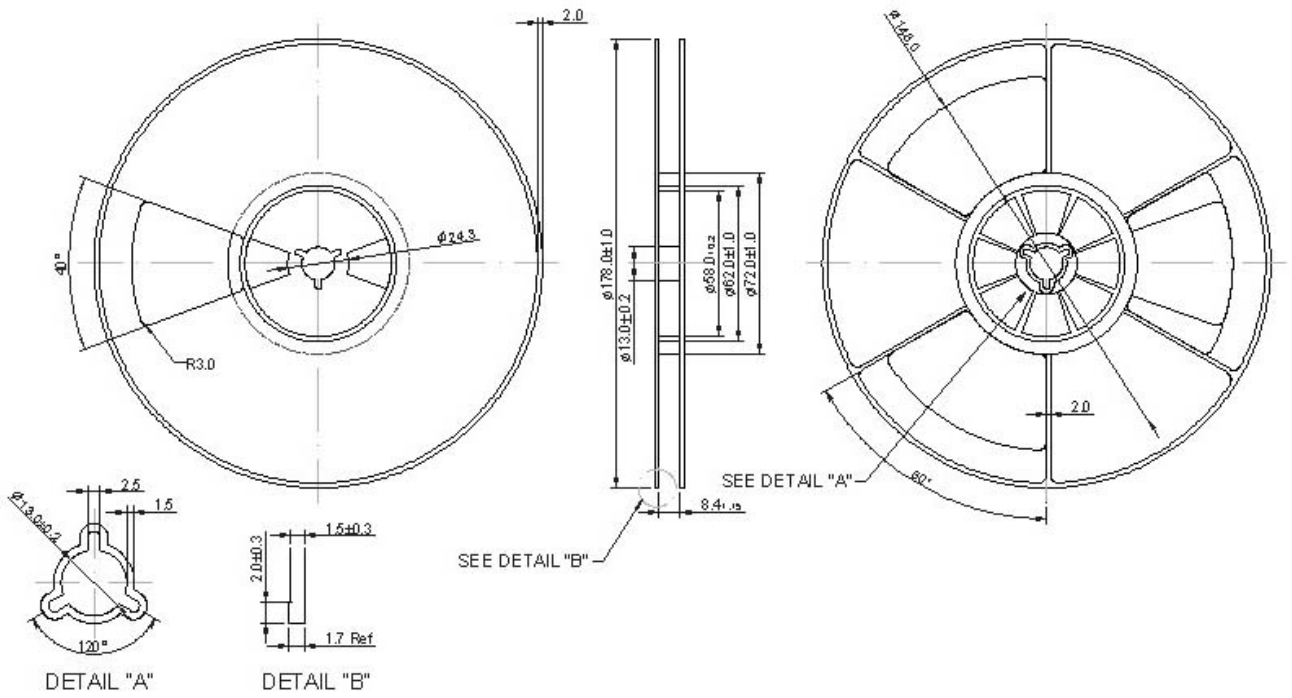


Date Code

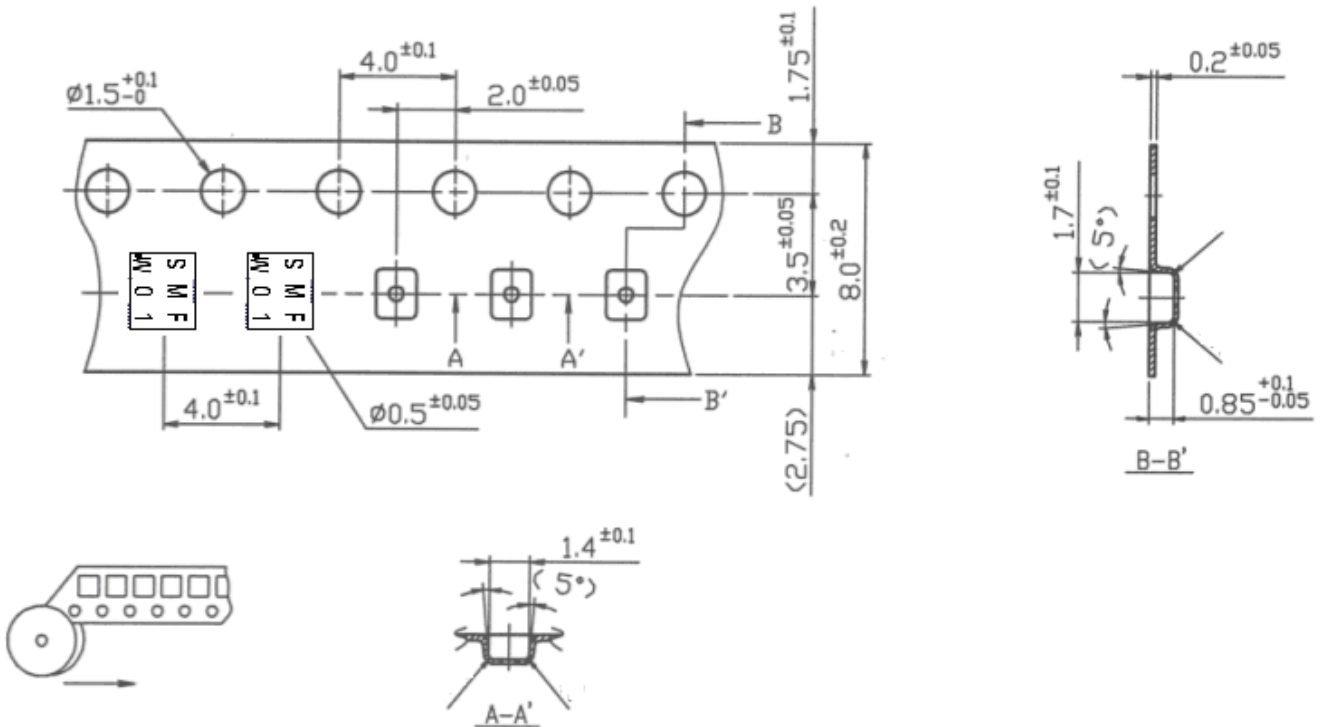
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



G. RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING:

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.

