



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: IF SAW Filter 140 MHz (SMD 13.3mmX6.5mm)

TST Part No.:TB0800A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 2011/08/10

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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IF SAW Filter 140 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0800A

Rev. No. V2.0

A. Maximum Rating:

- 0. Maximum Input Power: 10dBm
- 1. Operating Temperature: -40 °C ~ +85 °C
- 2. Storage Temperature: -40 °C ~ +85 °C

RoHS Compliant
Lead free
Lead-free soldering

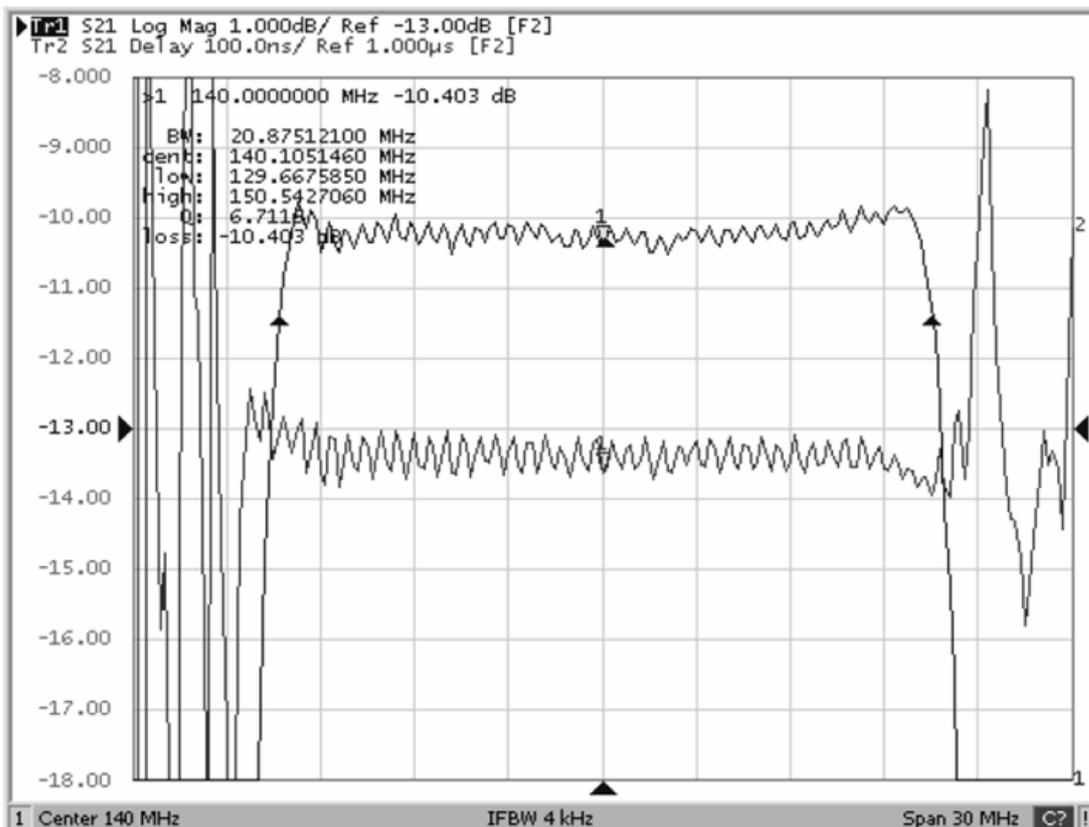
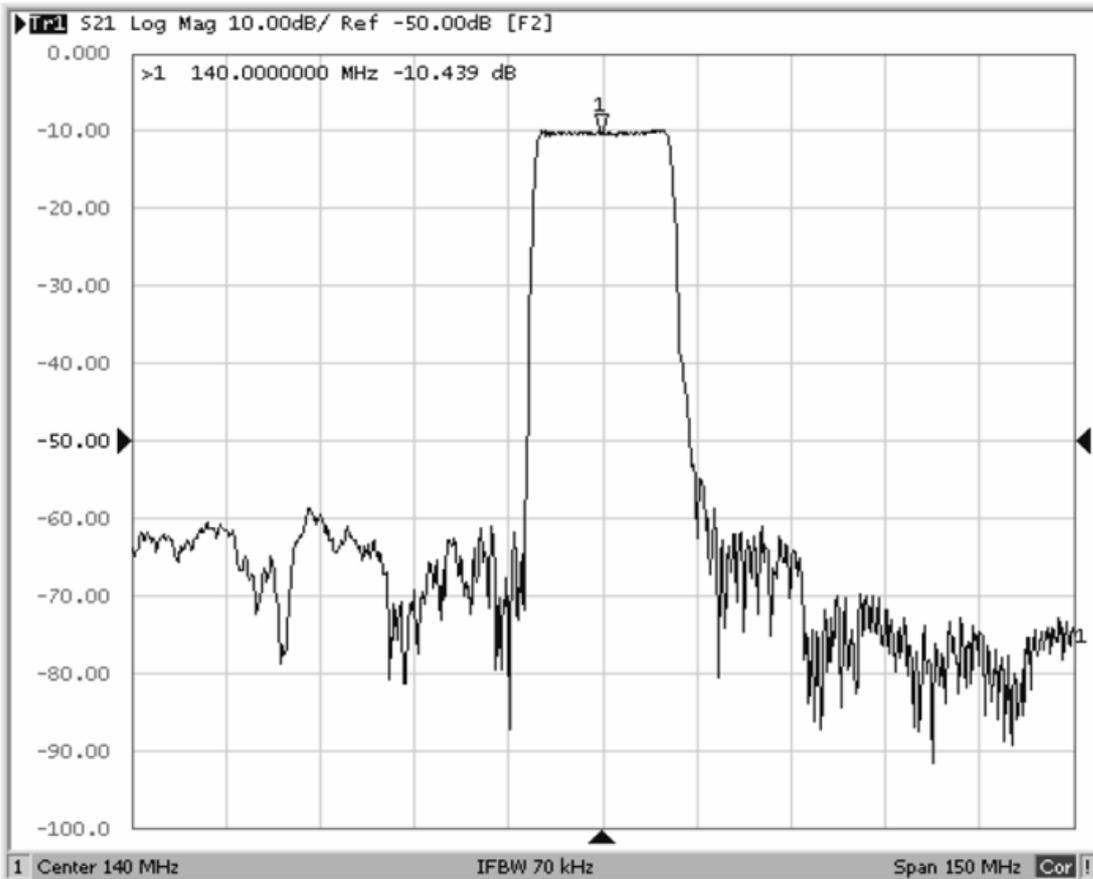
B. Characteristics :

- 1. Ambient Temperature: 25 °

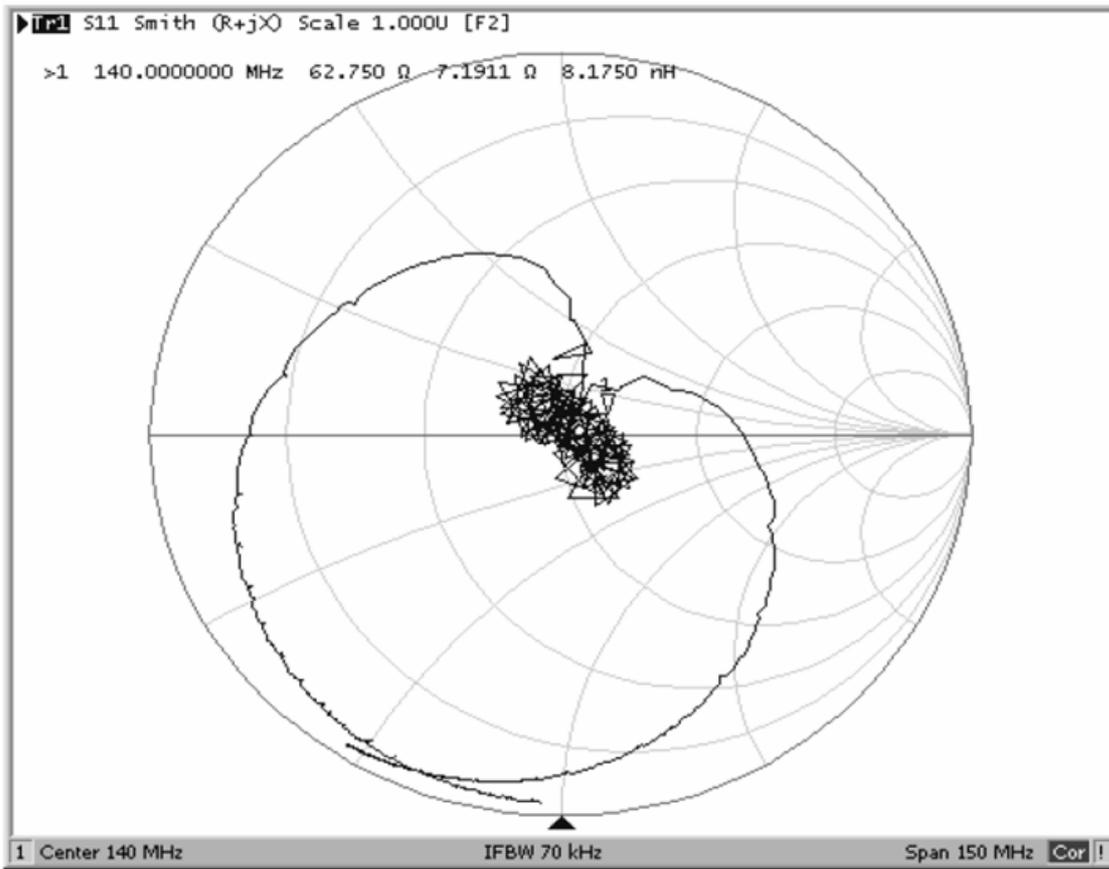
Characteristics		Value			Note	
		Min.	Typ.	Max.		
Center frequency	F _C MHz	-	140.0	-	-	
Maximum Insertion loss	I.L. dB	-	10.3	11.5	-	
1dB Bandwidth	MHz	18.4	20.8	-	-	
3dB Bandwidth	MHz	20.0	21.8	-	-	
35dB Bandwidth	MHz	-	25.5	26.4	-	
Passband Ripple (within 130.8~149.2MHz)	dB	-	0.8	1.0	-	
Group Delay Ripple (within 130.8~149.2MHz)	nS	-	115	160	-	
Absolute Group Delay	uS	-	1.05	-	-	
Input VSWR (within 130.8~149.2MHz)	dB	-	1.7	2.8	-	
Output VSWR (within 130.8~149.2MHz)	dB	-	1.8	2.3	-	
Temp Coefficient	ppm/° C	-	-93	-	-	
Attenuation:(Reference level from minimum insertion loss)						
1)	10 MHz~ 90 MHz	dB	35	49	-	-
2)	190 MHz~120MHz	dB	40	47	-	-
3)	120MHz ~ 126.8 MHz	dB	35	50	-	-
4)	154.7MHz ~ 160MHz	dB	35	45	-	-
5)	160MHz ~ 190 MHz	dB	40	53	-	-
6)	190MHz ~800MHz	dB	35	62	-	-

C. Frequency Characteristics :

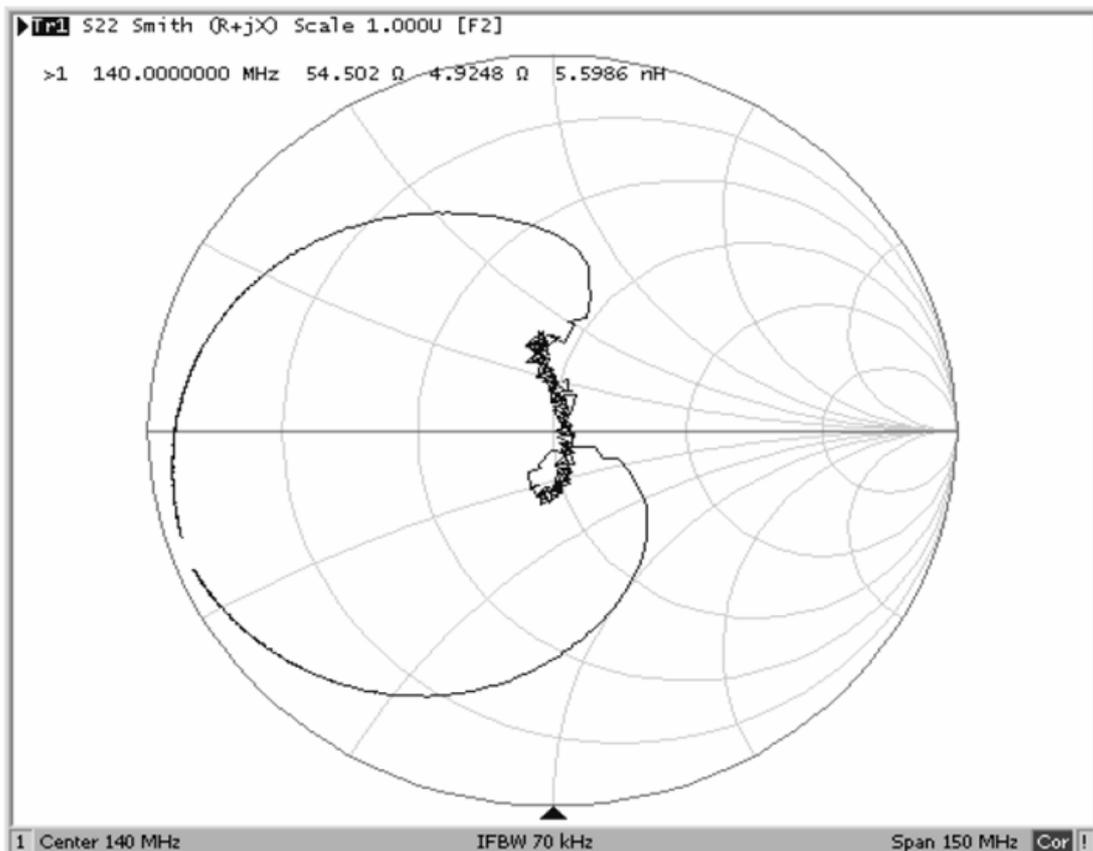
S11 Response:



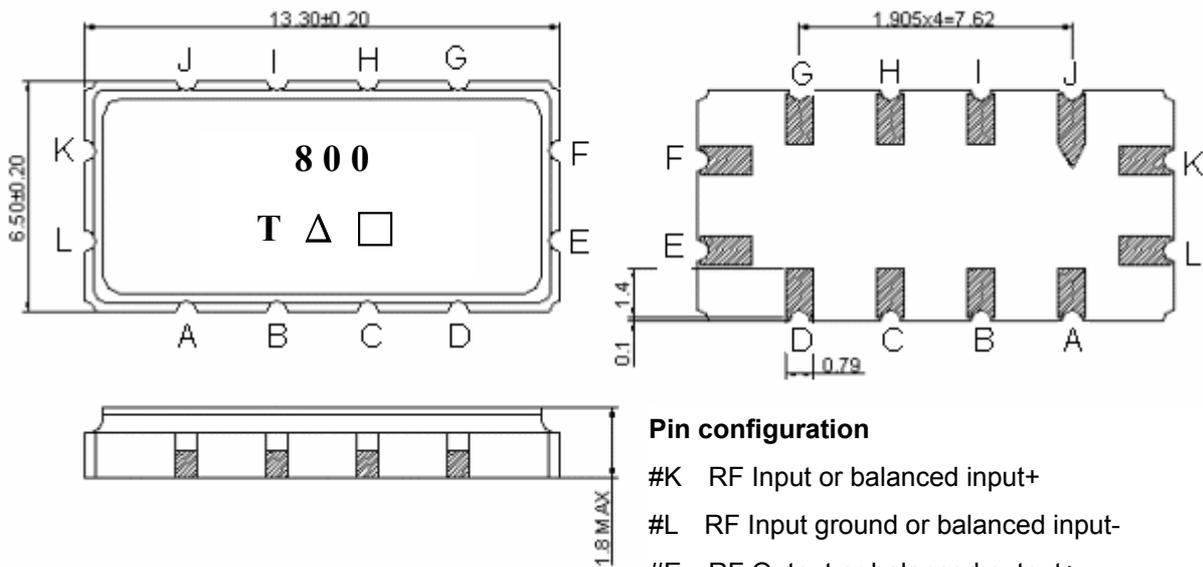
S11 Smith-Chart



S22 Smith-Chart



D. Outline Drawing:



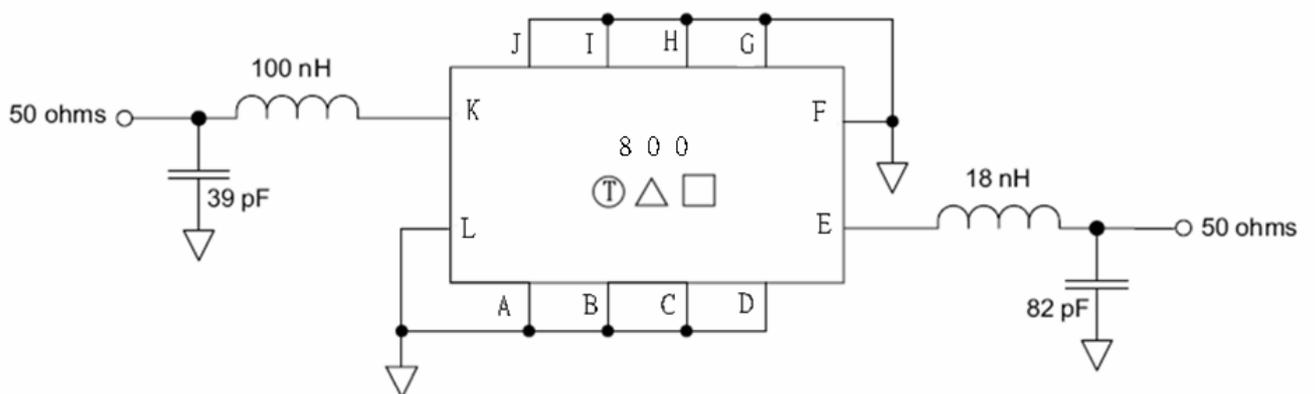
Pin configuration

- #K RF Input or balanced input+
- #L RF Input ground or balanced input-
- #E RF Output or balanced output+
- #F RF Output ground or balanced output-
- #A, B, C, D, G, H, I, J To be ground
- : Week Code (Follow the table from planner each year)
- △ : Product / Year Code

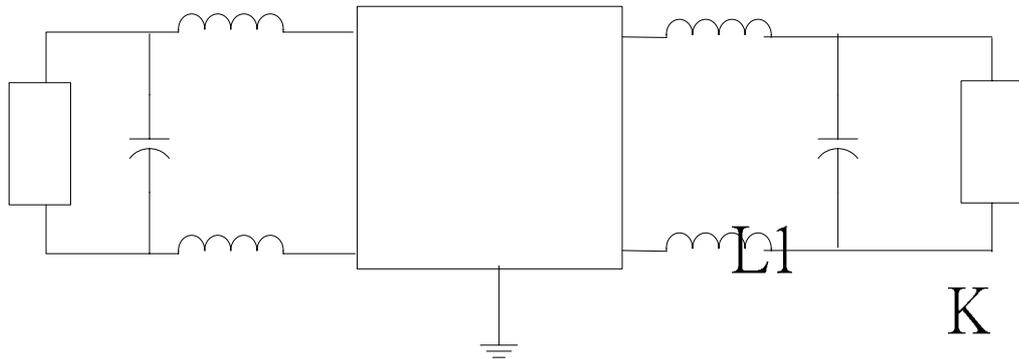
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Measurement Circuits :

Single In/Output:

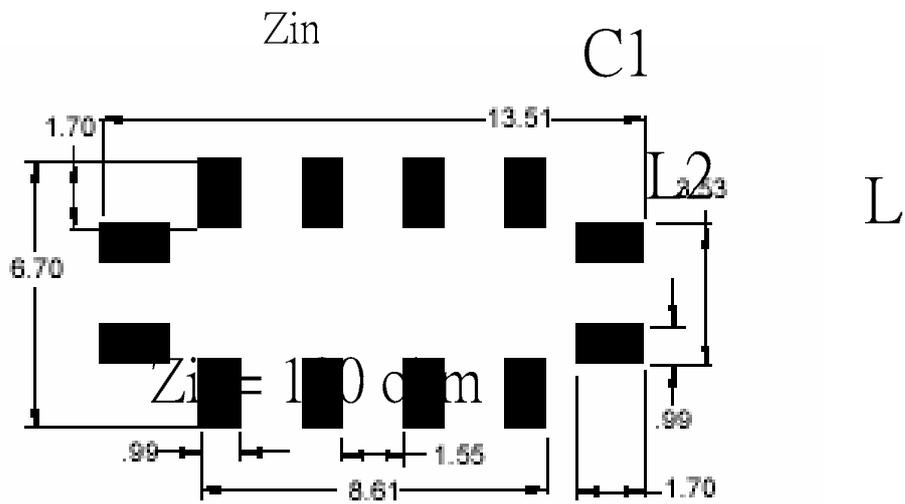


Balanced In/Output



$L1=L2=47\text{nH}$, $C1=39\text{pF}$, $L3=L4=8.2\text{nH}$, $C1=82\text{pF}$

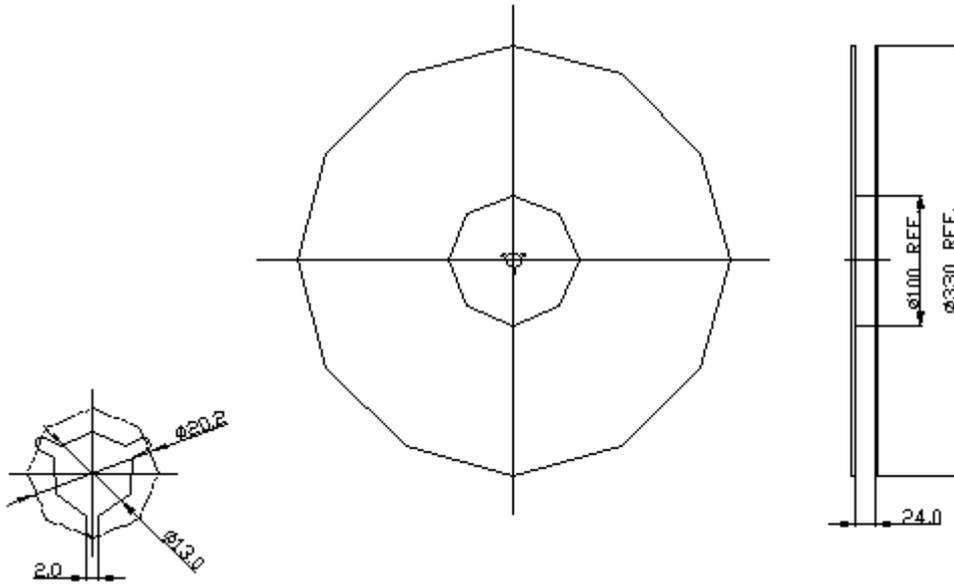
F. PCB Footprint



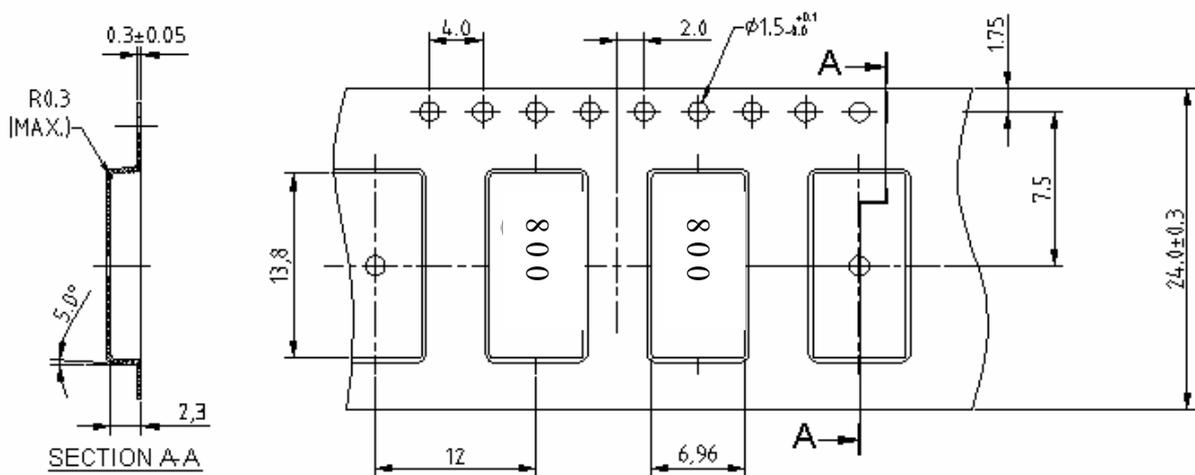
SA
Fi

G. Package:

(1). REEL DIMENSION



(2). TAPE DIMENSION



H. Recommended Reflow Profile :

