



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 464 MHz(SMD 7.0X5.0mm)

TST Parts No.:TB0459A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2008/01/28



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IF SAW Filter 464 MHz SMD 7X5mm

MODEL NO.: TB0459A

Rev No.1

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

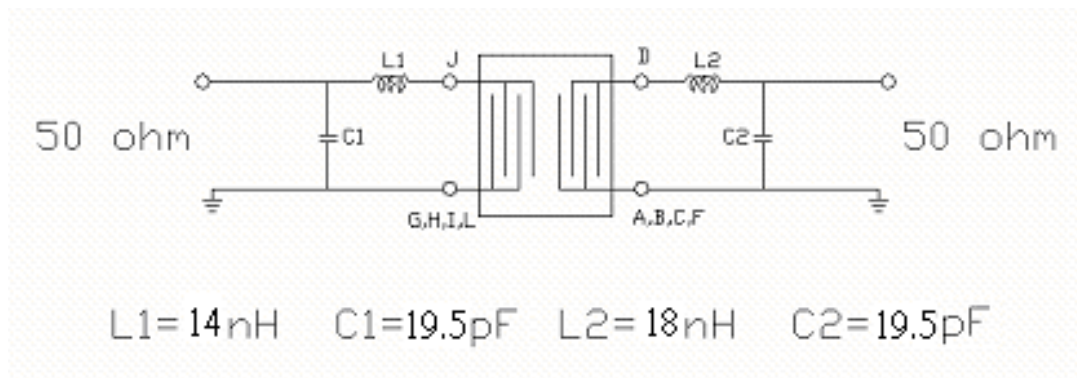
B. Characteristics :

1. Ambient Temperature: 25 °C
2. Optimal Source Impedance(Balanced): 200 ohm
3. Optimal Load Impedance(Balanced): 200 ohm

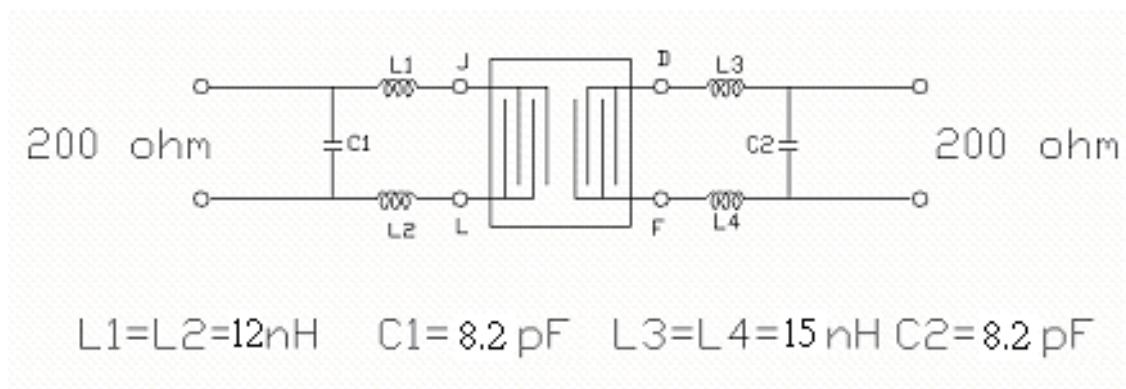
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	464	-	-
Minimum Insertion Loss dB	-	15.5	18.0	-
1dB Bandwidth MHz	5.45	5.52	-	-
3dB Bandwidth MHz	-	5.68	5.90	-
Passband Ripple ($F_C \pm 2.5\text{MHz}$) dB	-	1.2	1.5	-
Amplitude Ripple at any 26.875kHz adjacent segment within 5 MHz dB	-0.1	± 0.05	0.1	-
Amplitude Ripple at any 24.6875kHz adjacent segment within 5 MHz dB	-0.1	± 0.05	0.1	
Phase Linearity at any 26.875kHz adjacent segment within 5 MHz Deg.	-1	± 0.46	1	
Phase Linearity at any 24.6875kHz adjacent segment within 5 MHz Deg.	-1	± 0.43	1	
Attenuation:(Reference level from minimum insertion loss)				dB
1) $F_C \pm 3\text{MHz}$ dB	-	8.9	-	-
2) $F_C \pm 3.5\text{MHz}$ dB	10	33	-	-
3) $F_C \pm 5\text{MHz}$ dB	36	42	-	-
4) 376MHz ~ 459 MHz dB	32	36	-	-
5) 469MHz ~ 552 MHz dB	34	39	-	-
Temp Coefficient ppm/°C ²	-0.036			

C. Measurement Circuit:

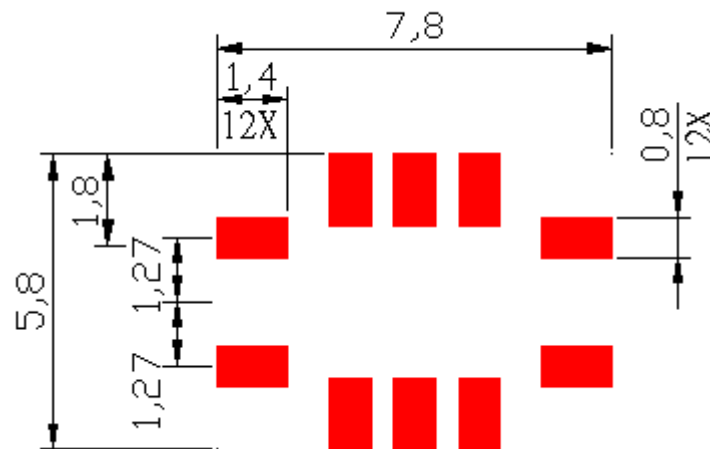
(1) Single end 50 ohm to Single end 50 ohm



(2) Balanced 200 ohm to Balanced 200 ohm



D. PCB FOOTPRINT:



E. Frequency Characteristics :

(1) S21 Response

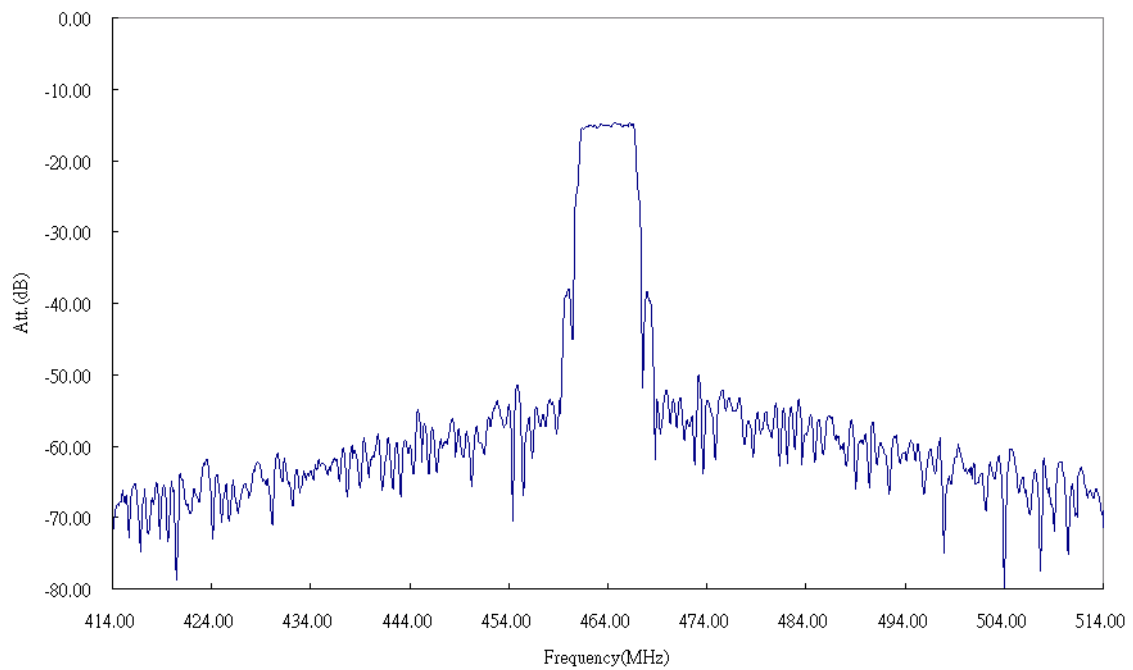


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

(2) Passband Ripple

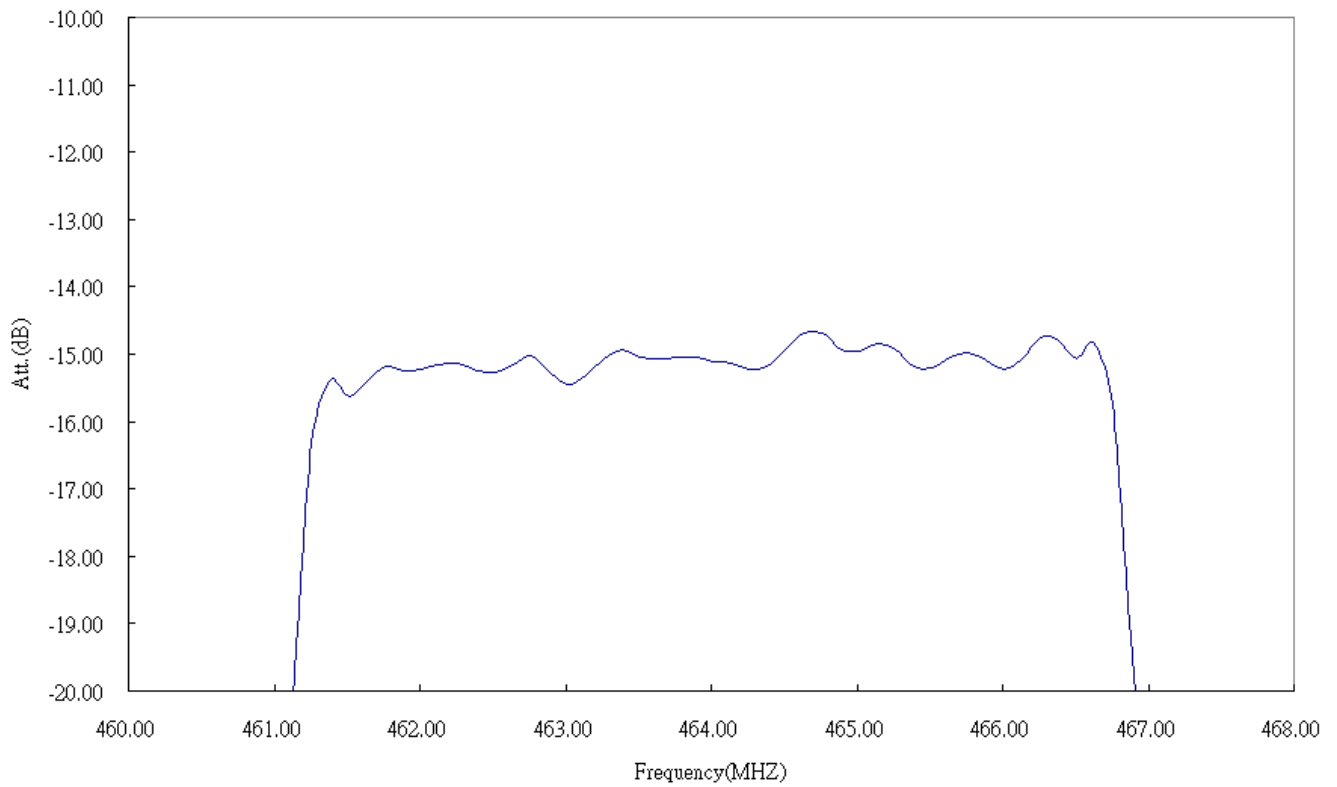


Fig2. Horizontal: 0.8 MHz/Div Vertical: 1dB/Div

(3) Group Delay ripple

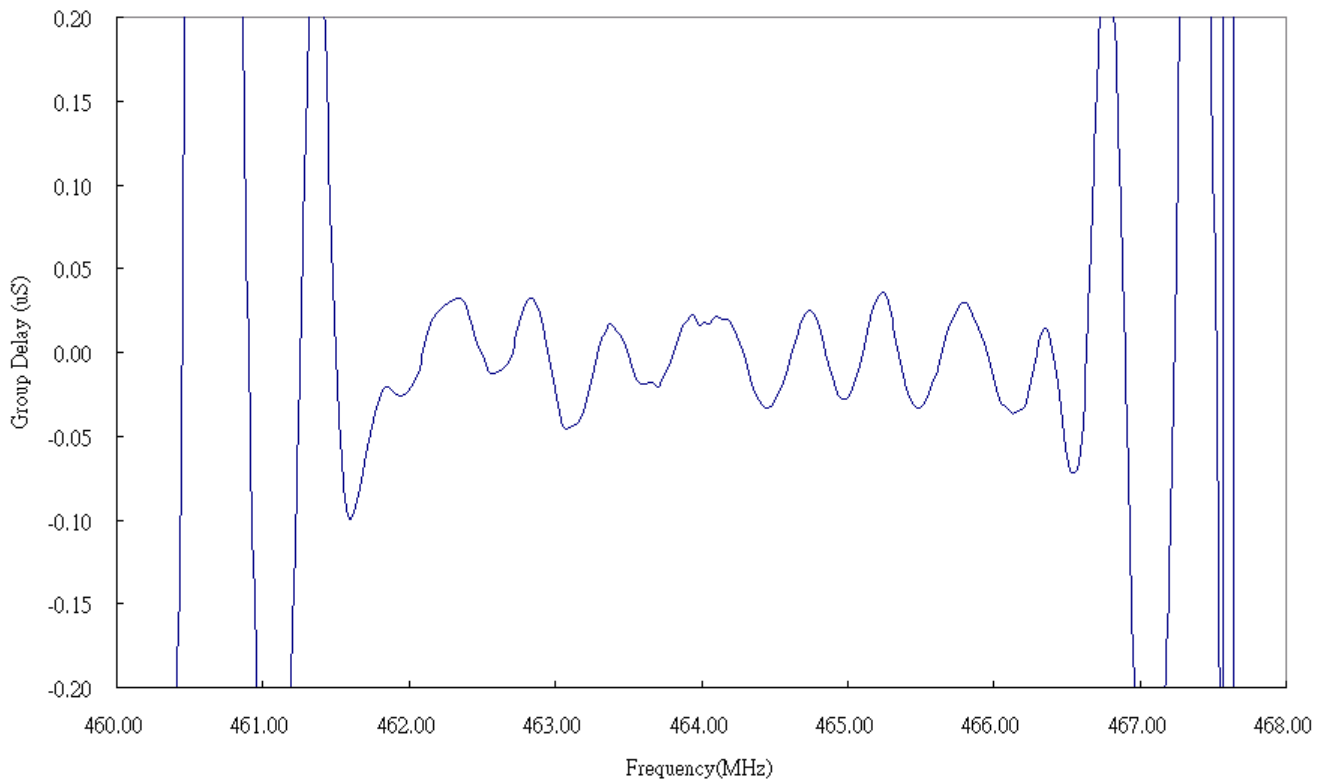


Fig3. Horizontal: 0.8 MHz/Div Vertical: 50nS/Div

(4) Wideband Response

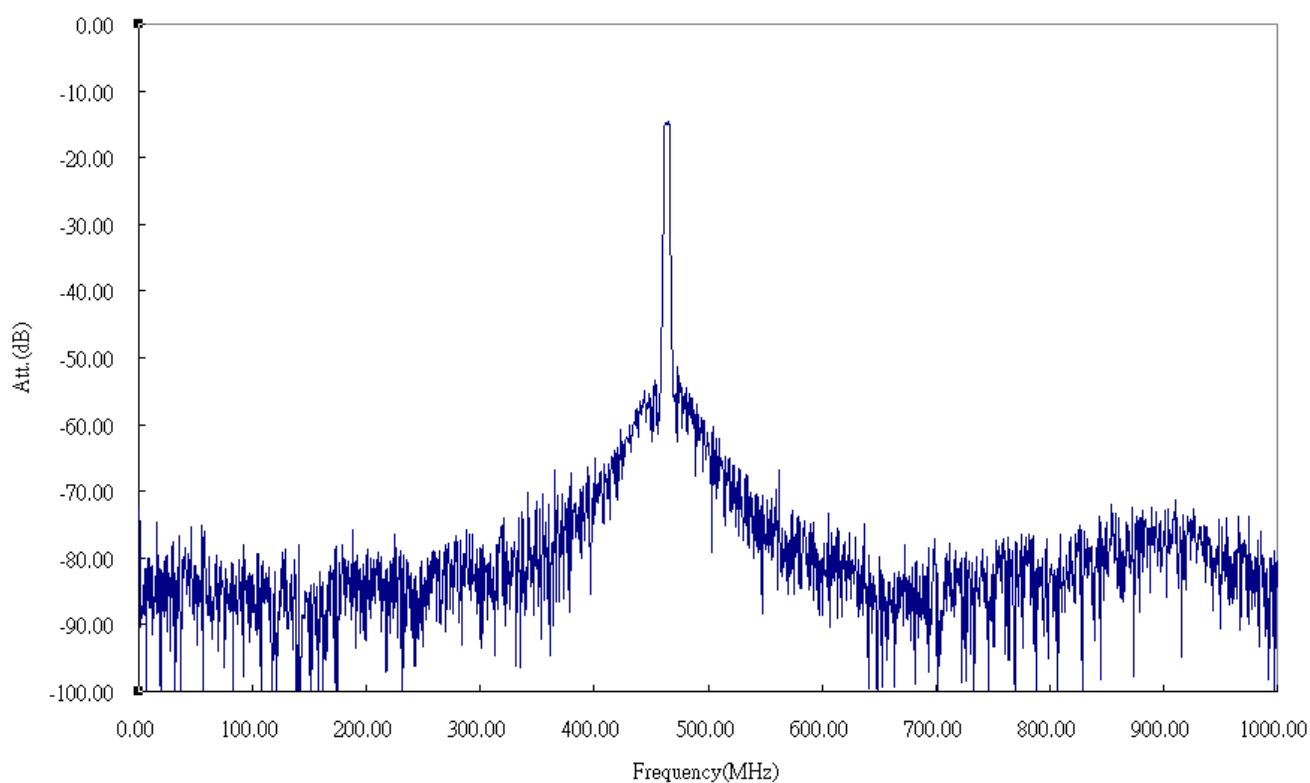
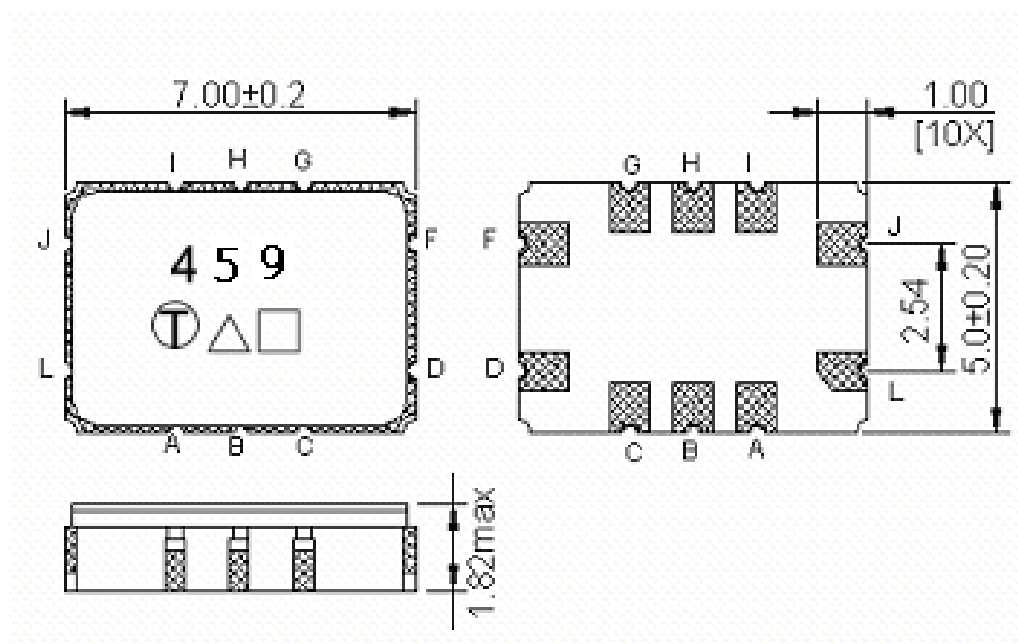


Fig4. Horizontal: 300kHz~1GHz Vertical: 10dB/Div

F. Outline Drawing:



Pin J,L : Balanced Input
 Pin F,D : Balanced Output
 Pin A,B ,C ,I,H,G : To be Ground

□ : Week Code (Follow the table from planner each year)

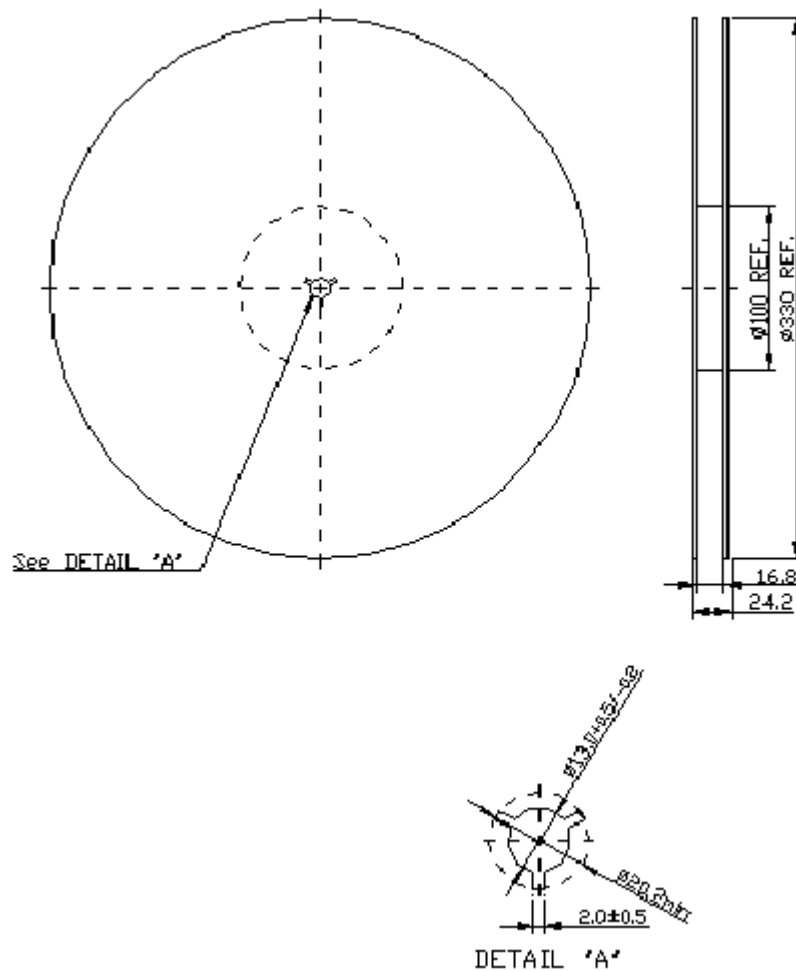
Unit : mm

△ : Product / Year Code

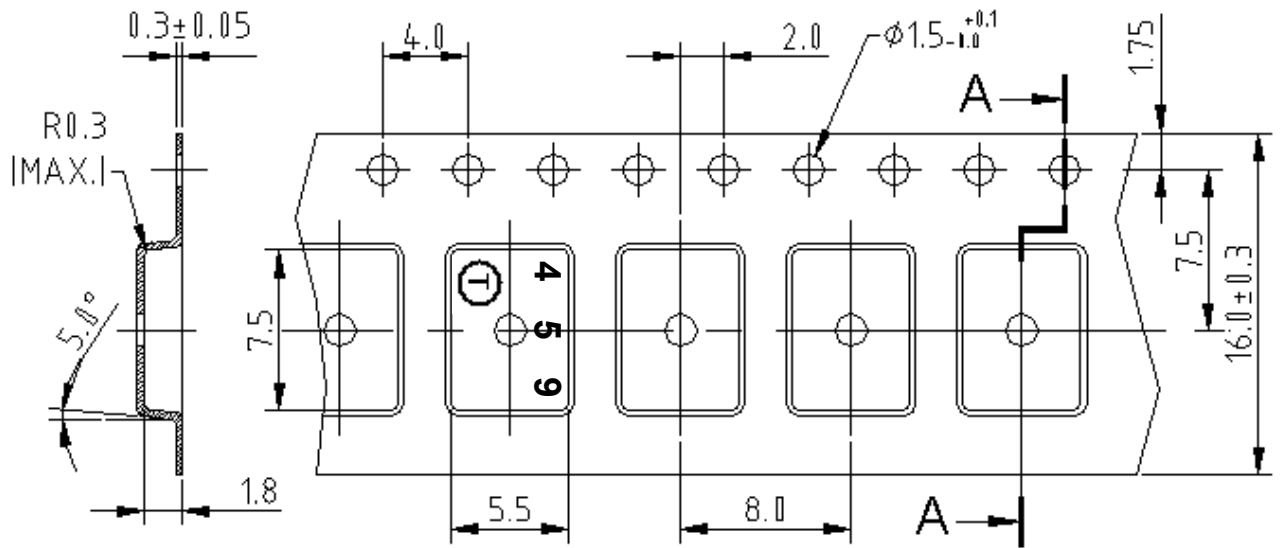
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

