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

Approval Sheet For Product Specification

Issued Date:

Product Name: 187.5MHz SMD7x5mm IF SAW Filter

TST Parts No.:TB0569A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Lee

Approval by: Francis Chen

Date: 2007/10/29

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187.5MHz SMD 7x5mm IF SAW Filter

MODEL NO.: TB0569A Rev. No.1

A. MAXIMUM RATING:

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

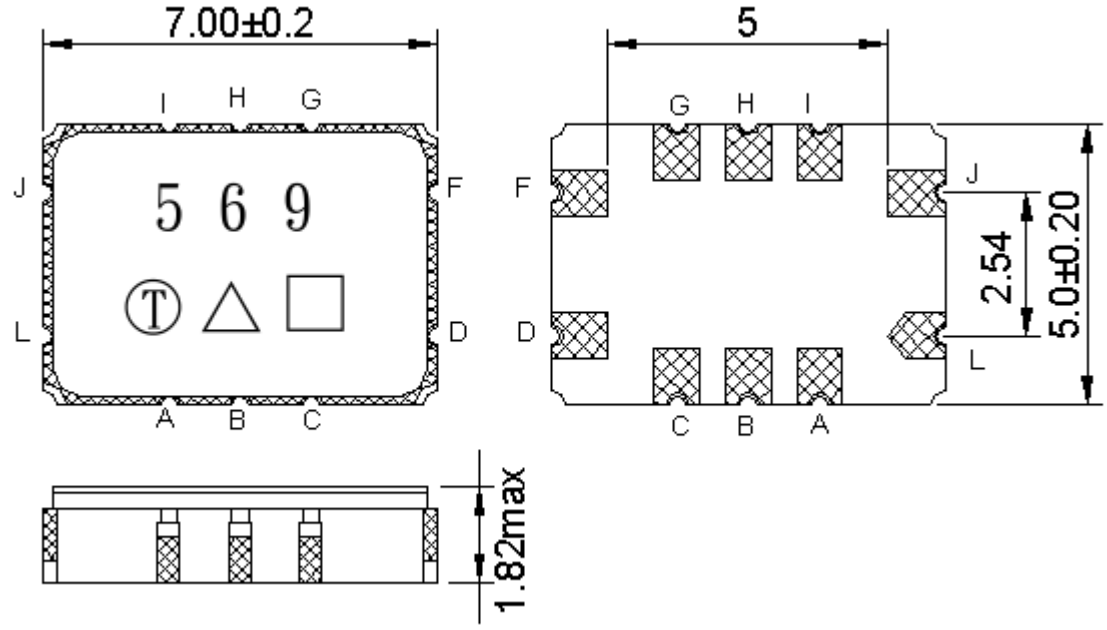
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	187.5	-	-
Minimum Insertion Loss, IL	dB	-	26	28	-
1 dB Bandwidth	MHz	100	114	-	-
3 dB Bandwidth		-	116	-	
40 dB Bandwidth	MHz	-	126	-	-
Amplitude ripple within Fc±50MHz	dB	-	0.6	1.0	-
Group Delay ripple within Fc±50MHz	nsec	-	35	70	-
Temp Coefficient	ppm/°C	-	-93	-	
Attenuation:(Reference level from Min IL)					
DC~110MHz	dB	40	45	-	-
255~315MHz	dB	30	34		
315~373MHz	dB	35	43		
373~503MHz	dB	25	30		
503~915MHz	dB	35	40		
915MHz~1000MHz	dB	30	34	-	-

C. OUTLINE DRAWING:



Pin configuration

#J RF Input

#L RF Input ground

#D RF Output

#F RF Output ground

#A,B,C,G,H,I 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	B	b

D.FREQUENCY CHRACTERISTICS:

(1) S21 Response:

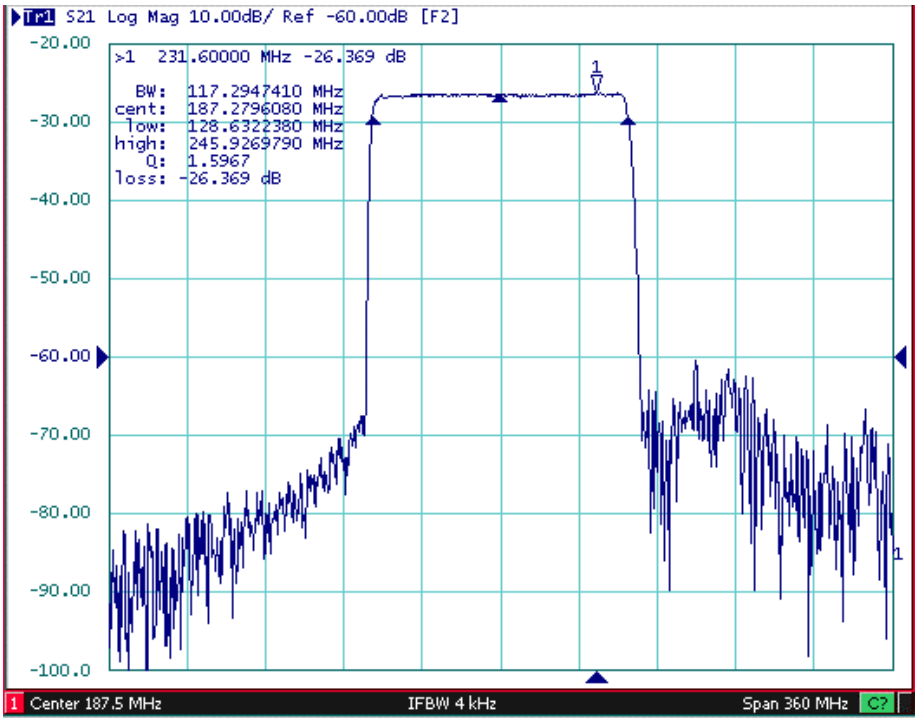


Fig. 1 S21 Response Horizontal: 36MHz; Vertical: 10dB/Div

(2) Passband Ripple Response:

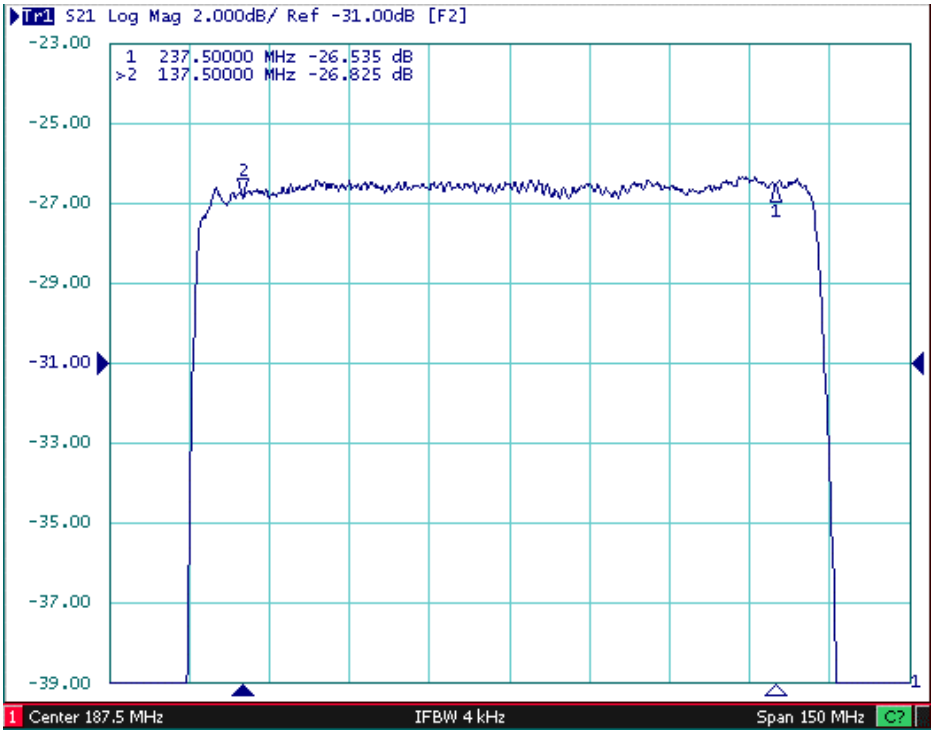


Fig. 2 S21 Response Horizontal: 15MHz; Vertical: 2dB/Div

(3) Group Delay Ripple Response:

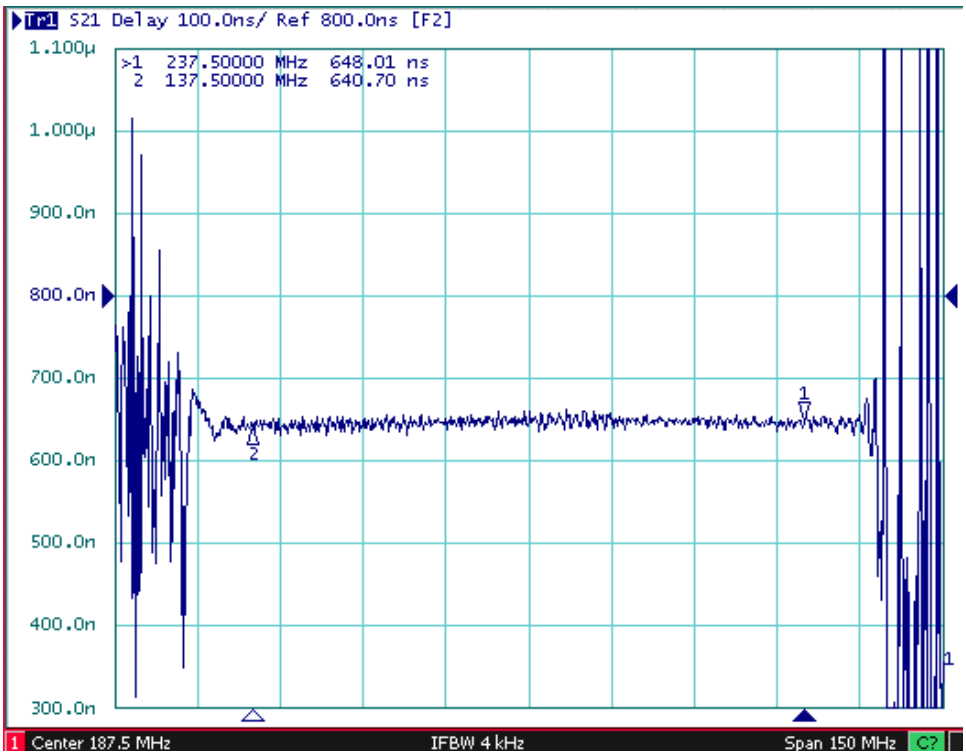


Fig. 3 Group Delay Horizontal: 15MHz; Vertical: 100nS/Div

(4) Wide Band Response:

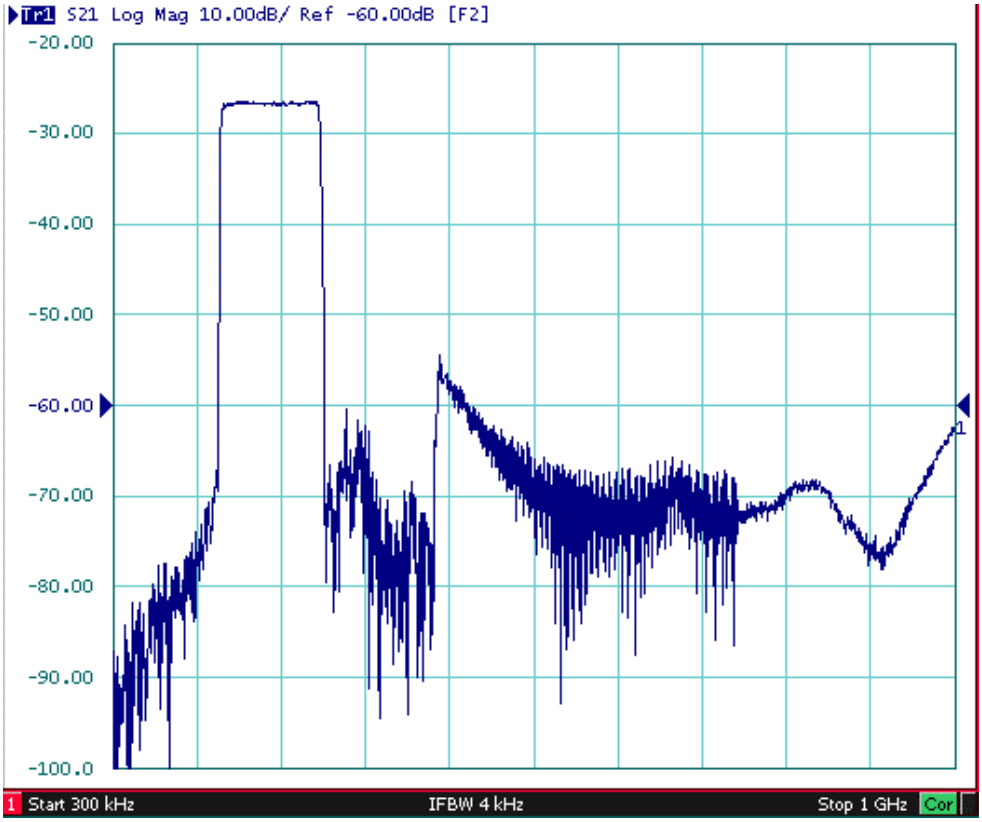
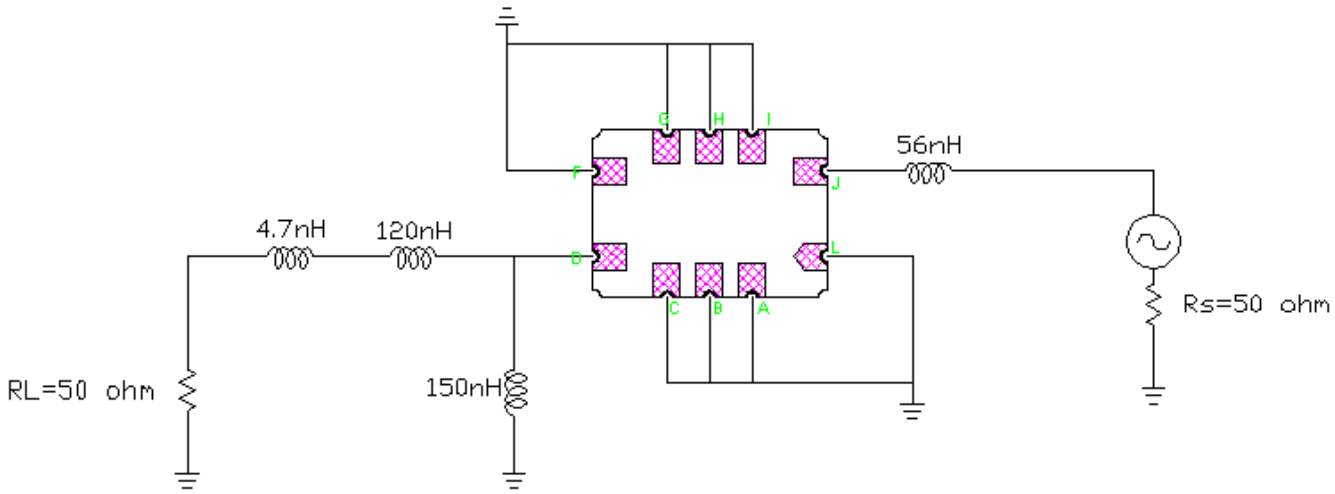


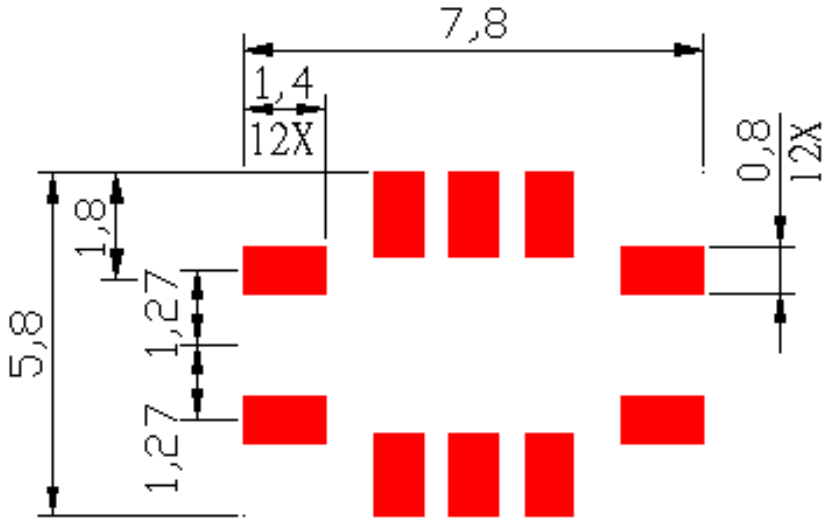
Fig. 4 WideBand Response Horizontal: 300kHz~1GHz;
Vertical: 10dB/Div

E.MATCHING CIRCUITS:



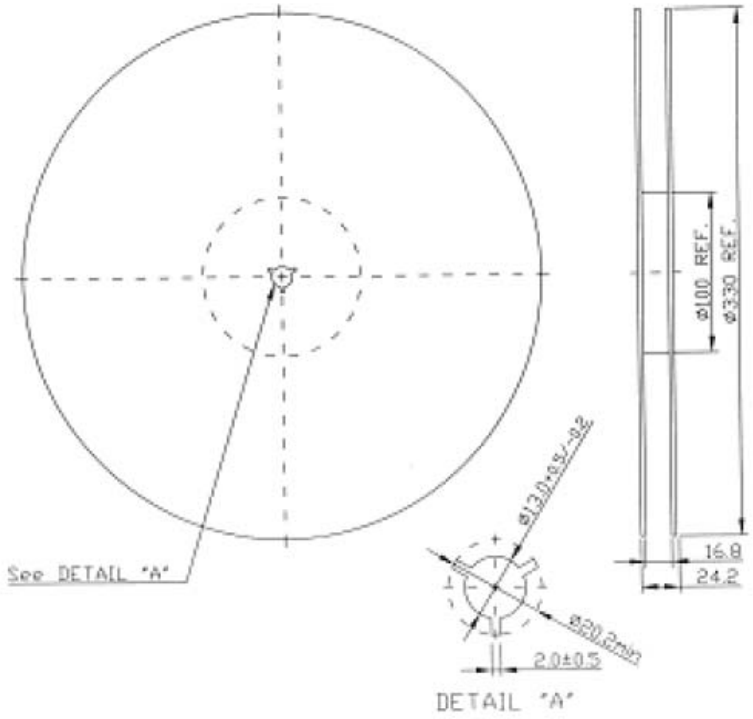
F.PCB FOOTPRINT:

Unit: mm

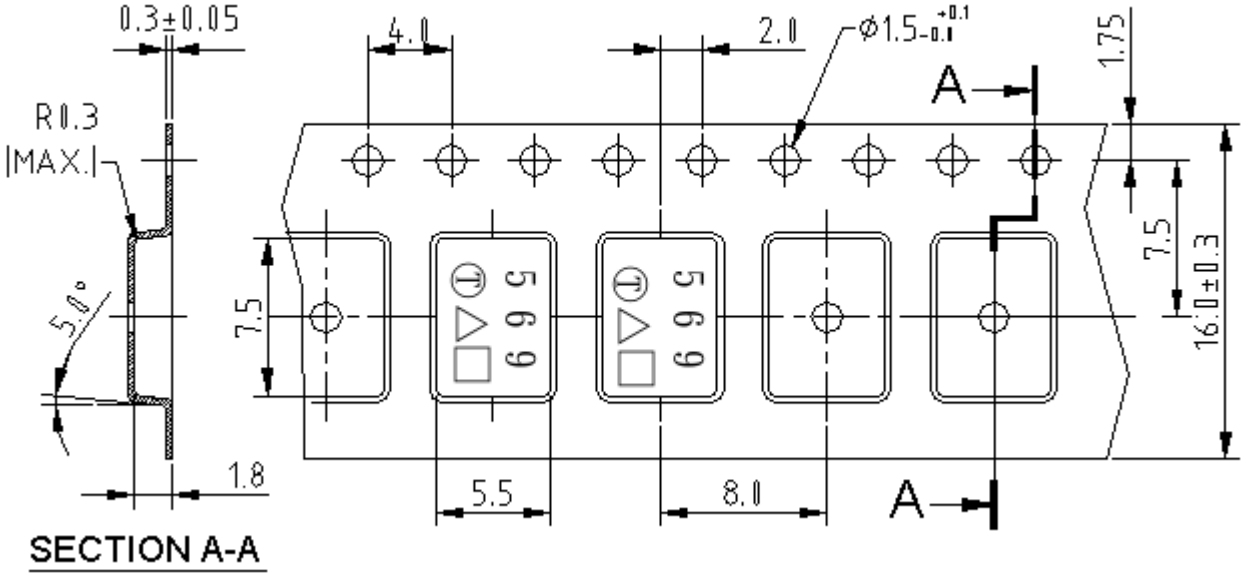
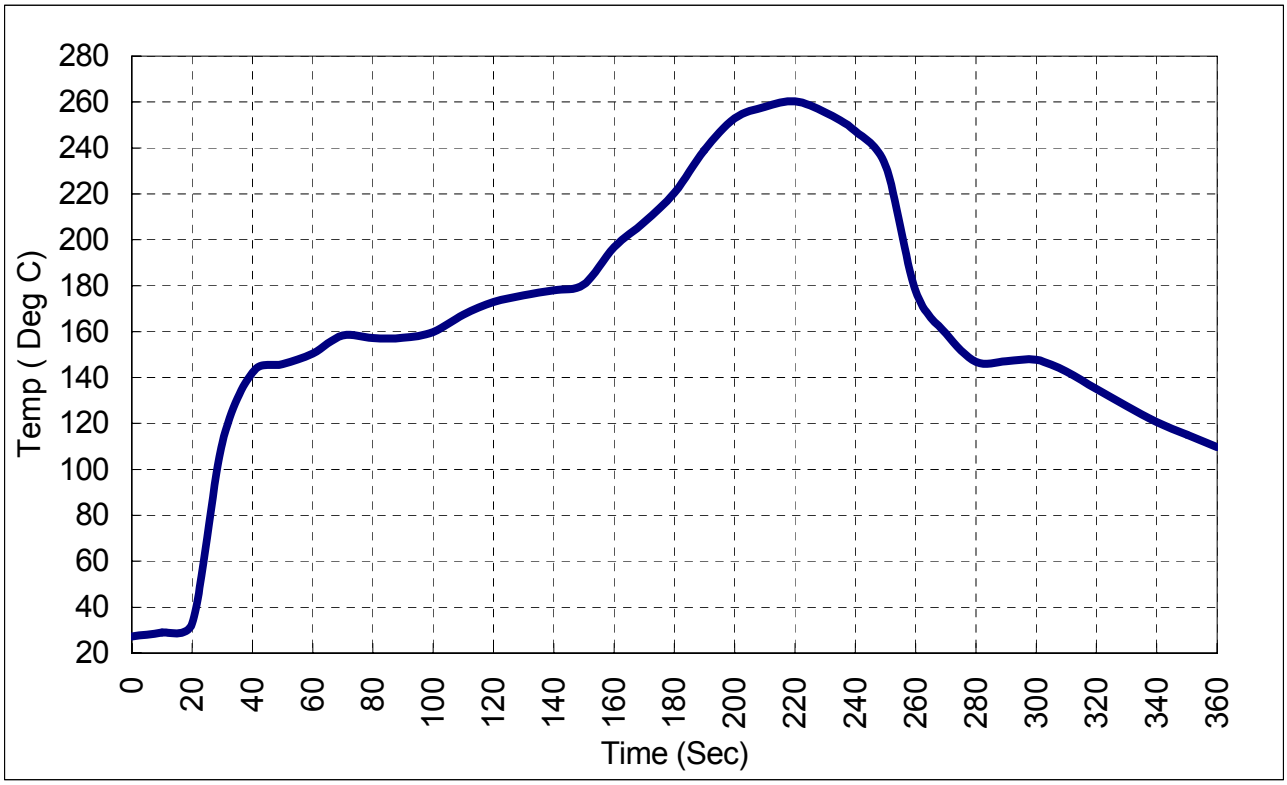


G.PACKAGE:

(1). REEL DIMENSION



(2).TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :