



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

Product Specifications Approval Sheet

Product Description: SAW Filter 2441.75MHz (BW 83.5MHz) SMD 1.4×1.1mm

TST Part No.: TA1834A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2014/12/11

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.



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

SAW Filter 2441.75MHz (BW 83.5MHz) SMD 1.4×1.1mm

MODEL NO.:TA1834A

REV.1.0

A. MAXIMUM RATING:

Operating Temperature: -30°C to +85°C

Storage Temperature:-40°C to +100°C

RoHS Compliant

Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Electrostatic Sensitive Device (ESD)

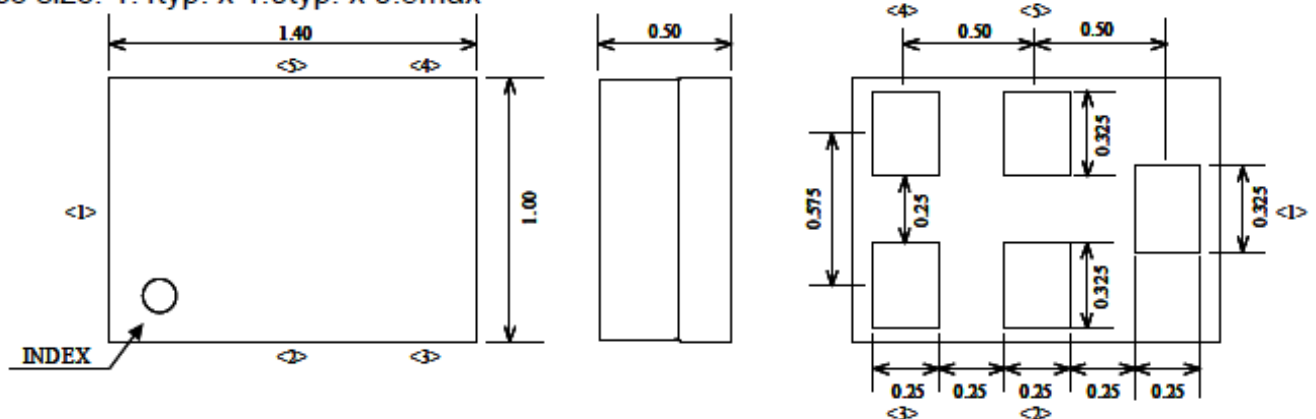
Input impedance: 50//8.3nH Ω

Output impedance: 50//12.0nH Ω

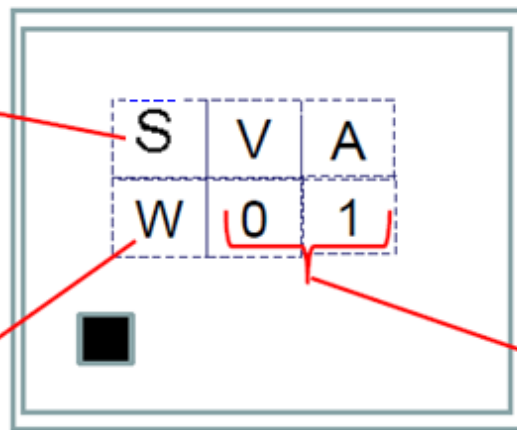
Parameters Description		Unit	Minimum	Typical	Maximum	Remarks
Insertion Loss	2400~2483.5 MHz	dB	-	3.0	3.5	
Amplitude Ripple	2400~2483.5 MHz	dB	-	1.2	1.9	
VSWR	Input	dB	-	2.1	2.5	
	Output	dB	-	2.1	2.5	
Max. Input Power	2400~2483.5 MHz	dBm	+23dBm(200mW)>10kh Spectrum spread signal (IEEE.802.11g) Ta=+55°C			
DC~1000 MHz		dB	40	49	-	
1000~1570 MHz		dB	37	47	-	
1570~1700 MHz		dB	35	44	-	
1700~1880 MHz		dB	34	40	-	
1880~1990 MHz		dB	33	37	-	
1990~2170 MHz		dB	31	33	-	
2700~4800 MHz		dB	19	24	-	
4800~5000 MHz		dB	18	24	-	

C.OUTLINE DRAWIN:

Device size: 1.4typ. x 1.0typ. x 0.5max



TAI-SAW
Original No.



Lot No.is indicated by
Arabic numerals 0 to 9
or characters A to Z and
a to z(However,except
I,O,I,I and o).

Lot No.

Date Code
(Complied to EIAJ)
2014 Sep:W

3-3 Product date code(EIAJ)

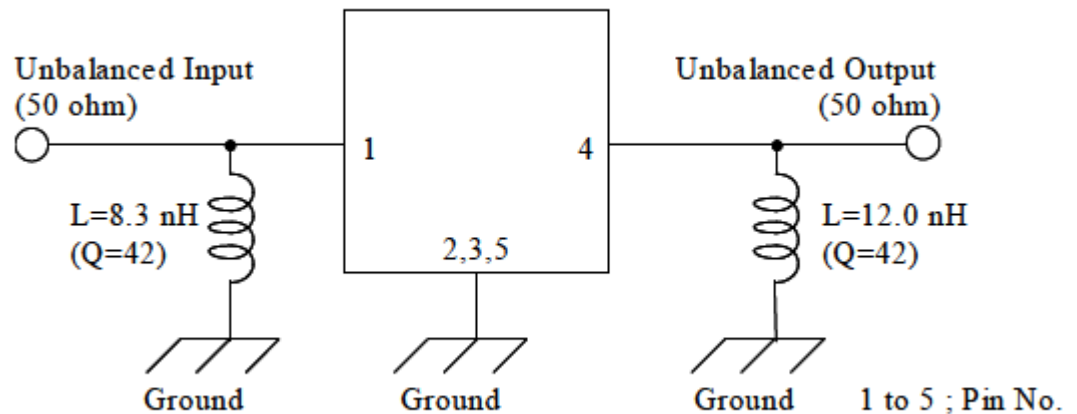
Table-1

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
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

Pin Configuration

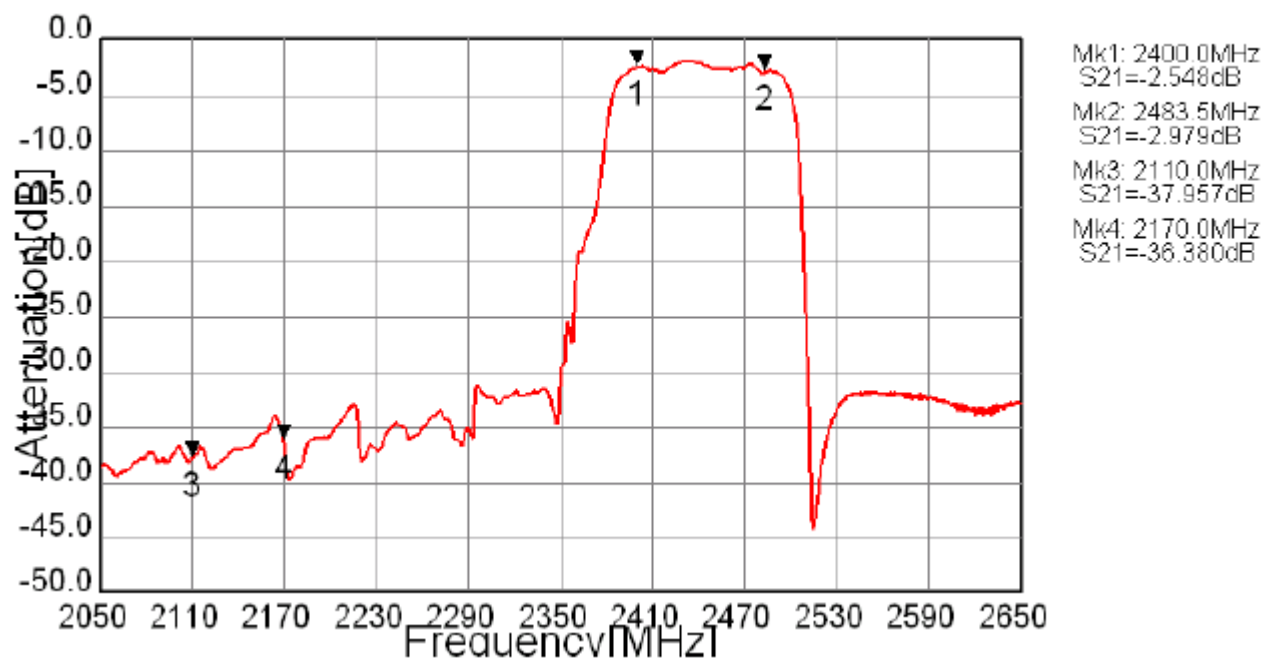
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

D. MEASUREMENT CIRCUIT:

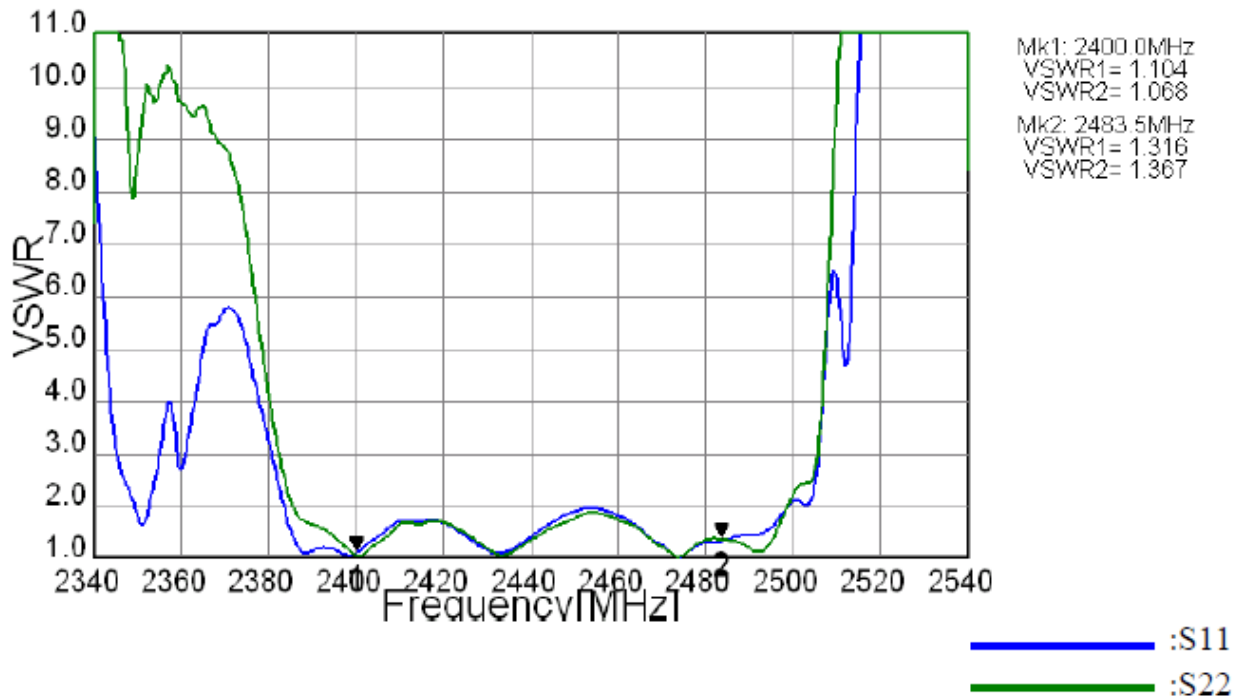


E. FREQUENCY CHARACTERISTICS:

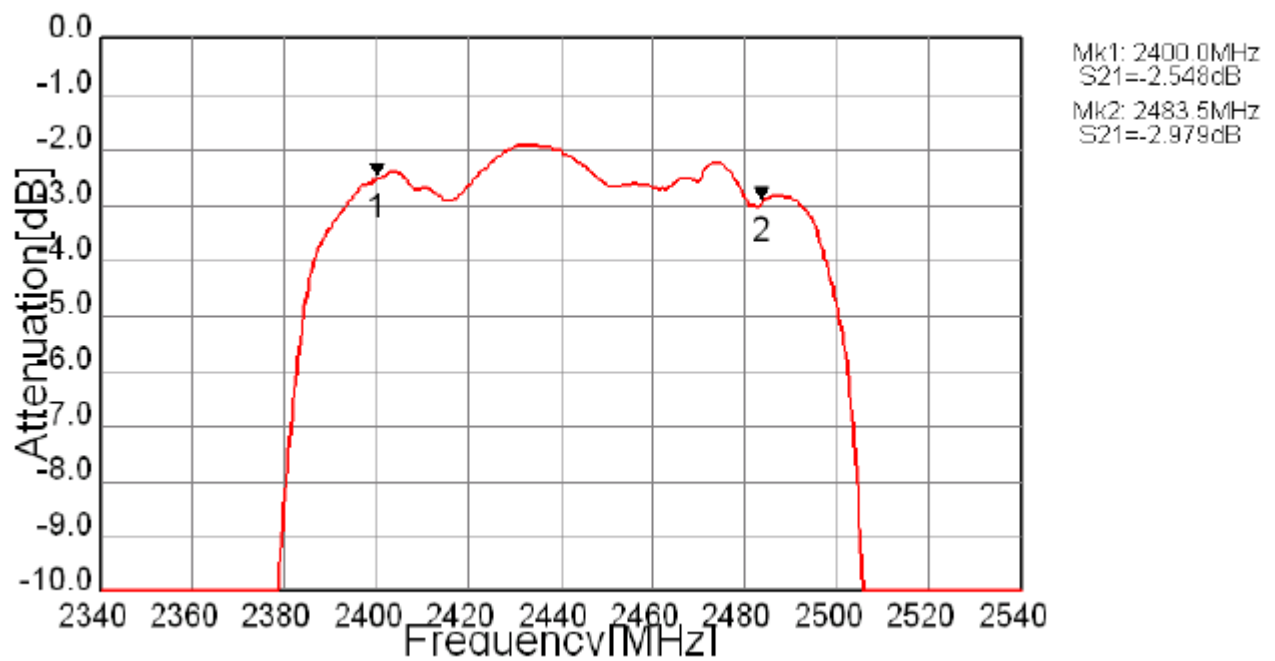
Pass-band



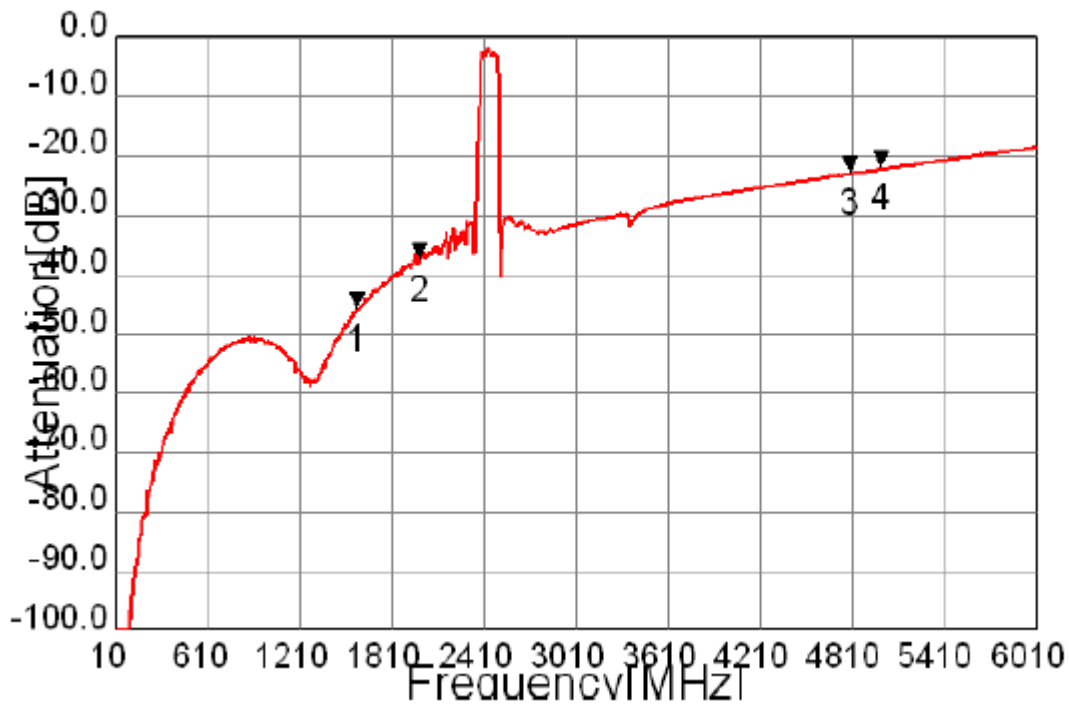
VSWR



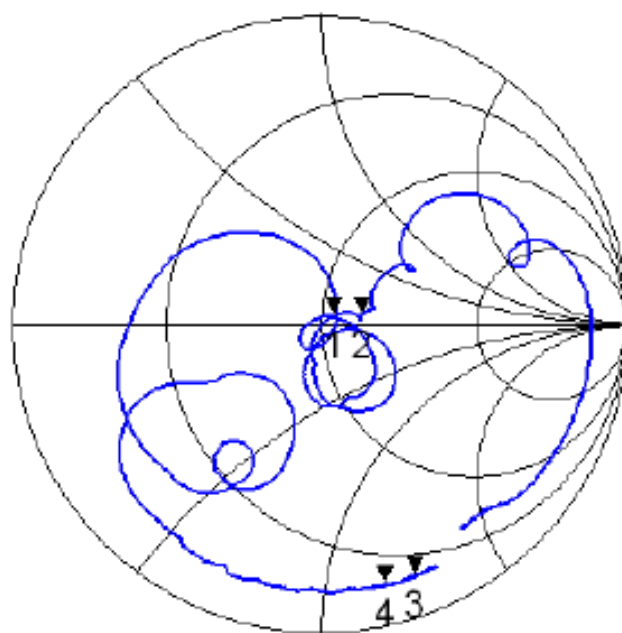
In-band



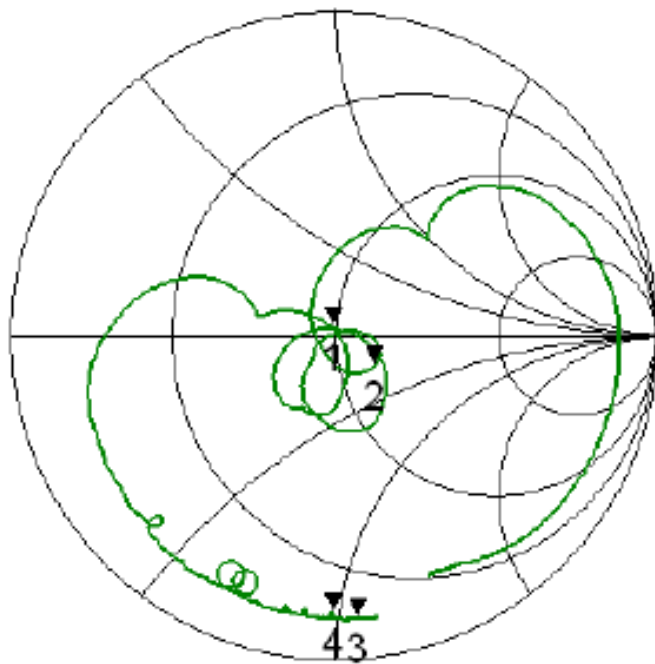
Wide-band



Input Impedance



Output Impedance

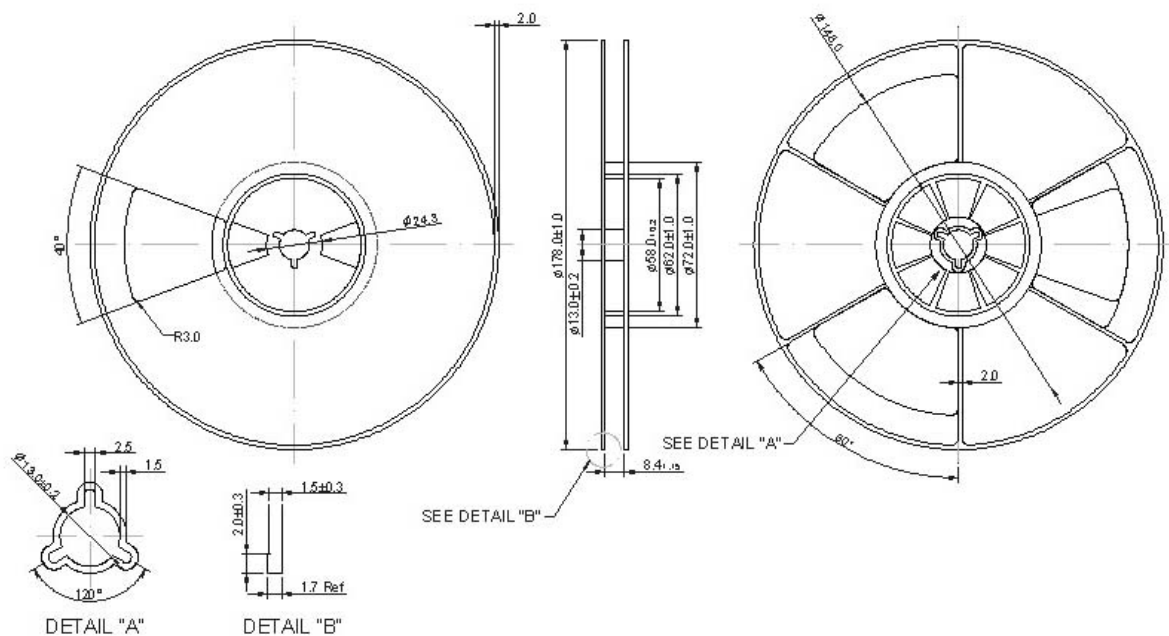


Mk1: 2400.0
 $S_{22} = 0.982 + j 0.062$
 Mk2: 2483.5
 $S_{22} = 1.248 - j 0.248$
 Mk3: 2110.0
 $S_{22} = 0.145 - j 1.072$
 Mk4: 2170.0
 $S_{22} = 0.157 - j 0.978$

F. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



Technical drawing of a mechanical part, likely a shaft or tube, showing dimensions and labels. The drawing includes a side view and a cross-sectional view.

Dimensions:

- Overall length: 8.0 ± 0.3
- Distance from left end to first hole: 0.20 ± 0.05
- Distance between holes: 4.0 ± 0.1
- Distance from left end to first hole (alternative): 2.0 ± 0.05
- Distance from left end to first hole (alternative): 4.0 ± 0.1
- Distance from left end to first hole (alternative): 1.75 ± 0.1
- Distance from left end to first hole (alternative): 3.5 ± 0.05
- Distance from left end to first hole (alternative): 1.73 ± 0.1
- Distance from left end to first hole (alternative): 1.47 ± 0.1
- Distance from left end to first hole (alternative): 0.75 ± 0.1

Labels:

- $\phi 1.55 \pm 0.05$ (Hole diameter)
- $\phi 1.0$ (Hole diameter)
- SVA (Label for a hole)
- Bo (Label for a hole)
- Ko (Label for a hole)
- Ao (Label for a hole)

The graph illustrates the temperature profile of a material during a heating cycle. The temperature starts at 25°C at 0 seconds, rises to 145°C at 40 seconds, then to 180°C at 150 seconds. It peaks at 260°C at 220 seconds, then drops to 145°C at 280 seconds, and finally to 110°C at 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	30
40	145
60	150
80	160
100	155
120	170
140	175
150	180
160	195
180	220
200	255
220	260
240	250
260	180
280	145
300	150
320	135
340	120
360	110