



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

Issued Date:

Product Name: SAW Filter 1588.655 MHz (BW 34.47MHz) SMD 1.4X1.1 mm

TST Parts No.: TA1310A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Bob *Bob*

Date: _____ 2014,1,03

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 1588.655MHz

MODEL NO.:TA1310A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

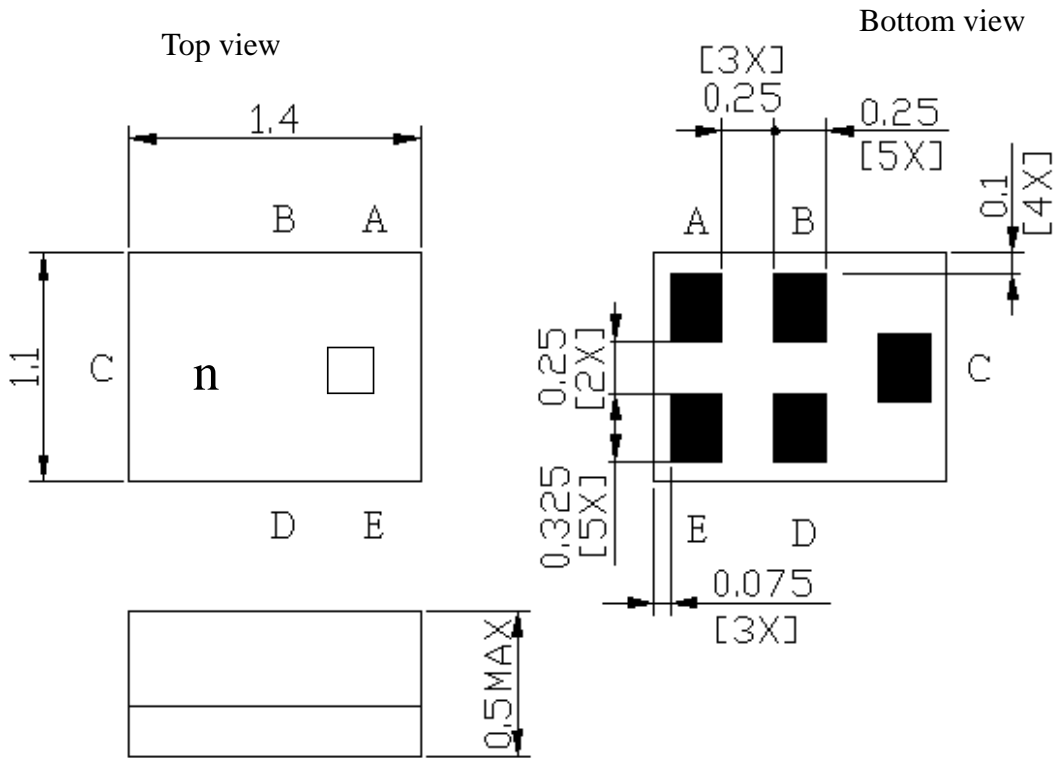
Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance (differential) : $Z_L = 100 \Omega$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1588.655	-	-
Insertion Loss (1573.42~1577.42 MHz) IL	dB	-	1.6	1.8	-
(1597.55~1605.89 MHz) IL	dB	-	1.6	2	-
(1571.42~1605.89 MHz) IL	dB	-	1.7	2	-
VSWR (1573.42~1577.42 MHz)		-	1.6	1.8	-
(1597.55~1605.89 MHz)		-	2	2.2	-
(1571.42~1605.89 MHz)		-	2	2.2	-
Amplitude ripple (1573.42~1577.42 MHz)	dB	-	0.3	0.6	-
(1597.55~1605.89 MHz)	dB	-	0.3	0.6	-
(1571.42~1605.89 MHz)	dB	-	0.5	1	-
G-Delay ripple (1573.42~1577.42 MHz)	nS	-	4	8	-
(1597.55~1605.89 MHz)	nS	-	7	1	-
(1571.42~1605.89 MHz)	nS	-	8	11	-
Attenuation					
500 ~ 1350 MHz	dB	45	50	-	-
1350 ~ 1450 MHz	dB	42	45	-	-
1450 ~ 1525 MHz	dB	20	25	-	-
1650 ~ 1700 MHz	dB	19	21	-	-

1700 ~ 2150 MHz	dB	23	28	-	-
2150 ~ 2300 MHz	dB	35	40	-	-
2300 ~ 2700 MHz	dB	42	45	-	-
Package size	mm	SMD 1.4x1.1			

C.OUTLINE DRAWING:



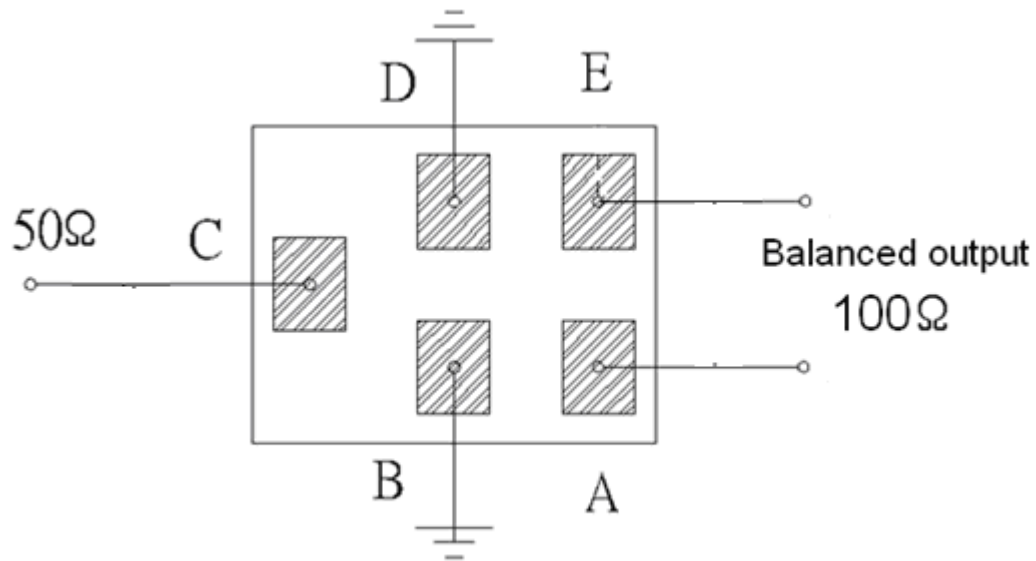
side view

C : Input
A,E : Output
,B,D : Ground
Unit : mm

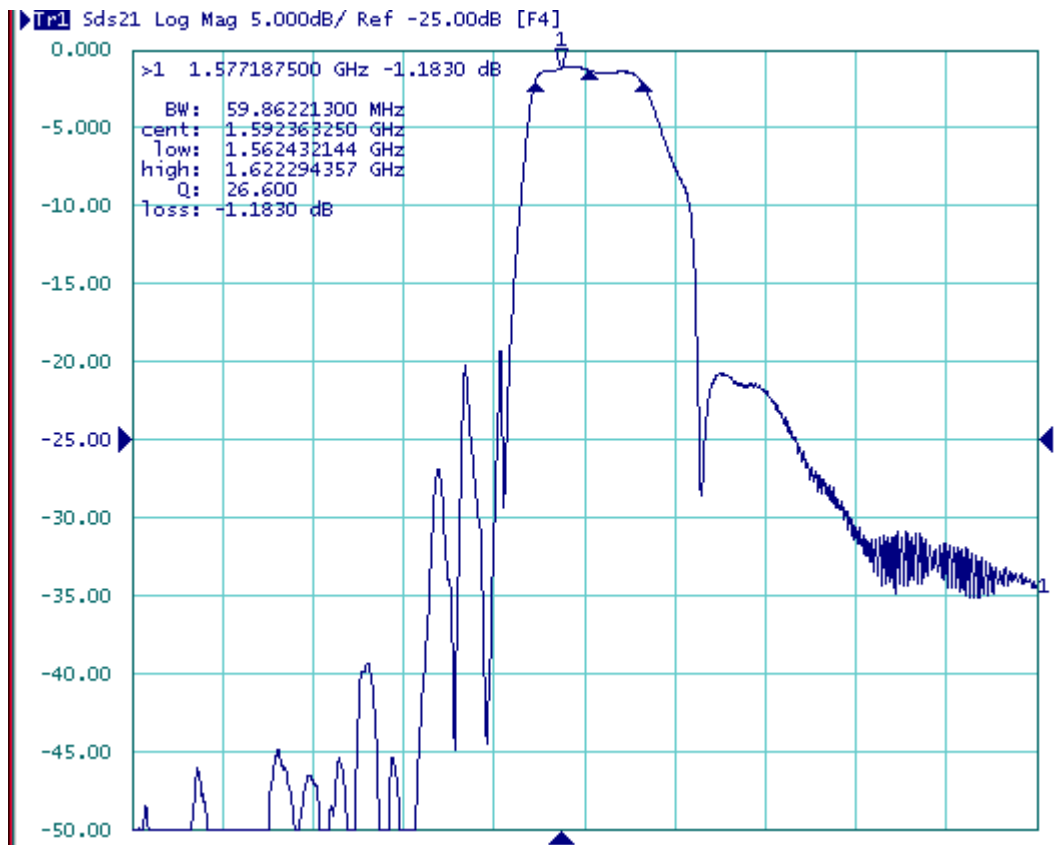
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

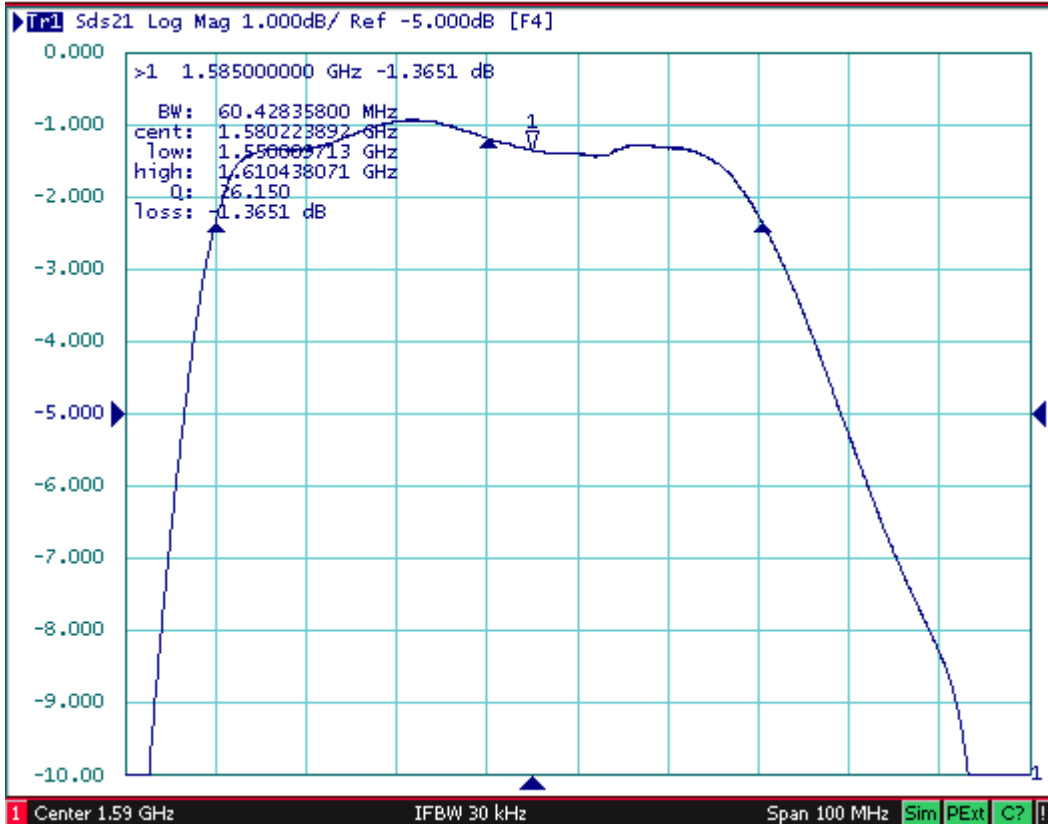
D. MEASUREMENT CIRCUIT:



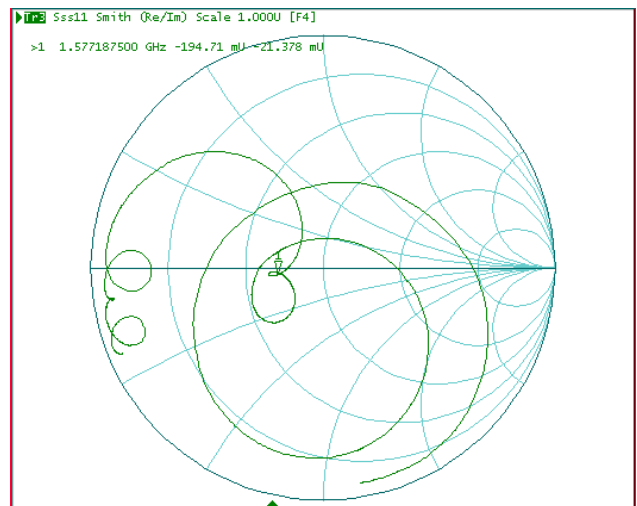
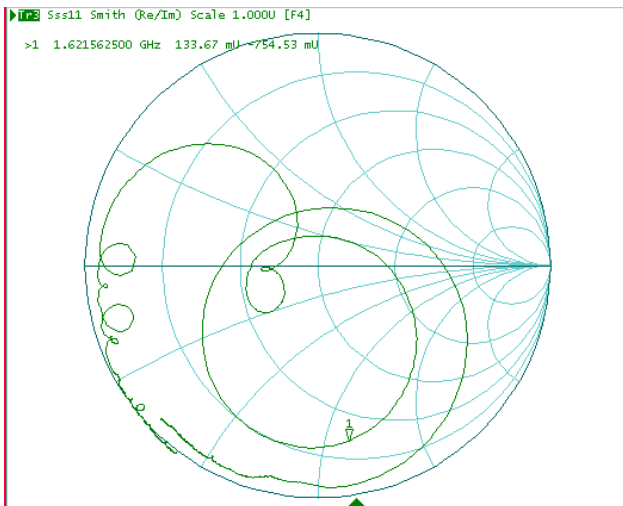
E. Frequency Characteristics : S21 response: (span 500MHz)



S21 response: (span 100MHz)



S11/S22 response :



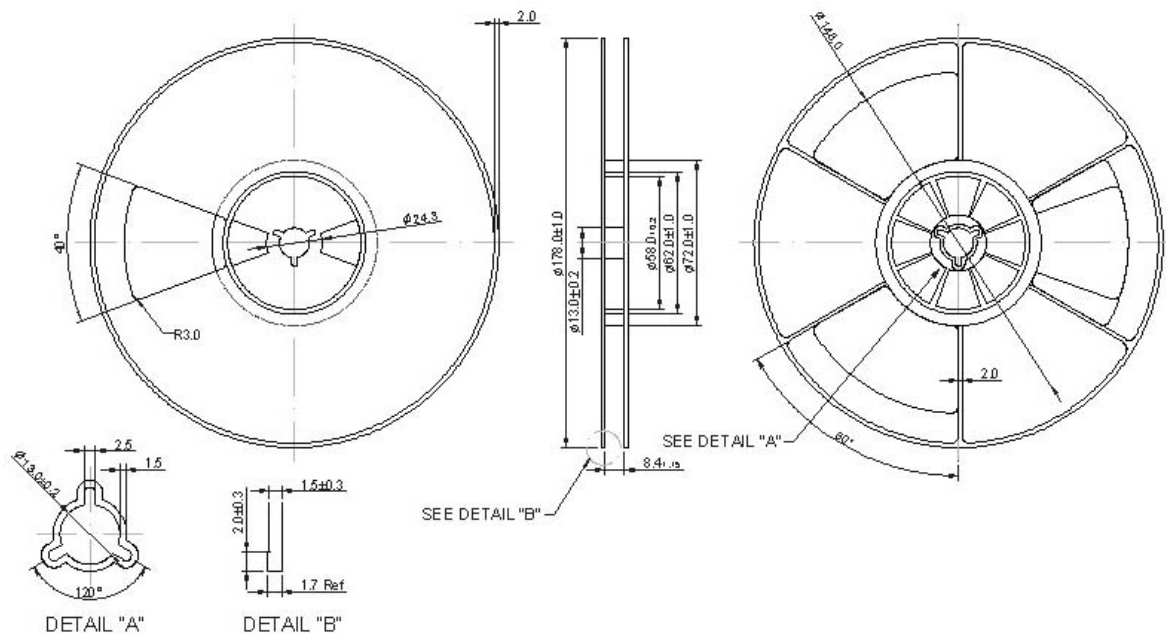
S21 response: (span 3GHz)



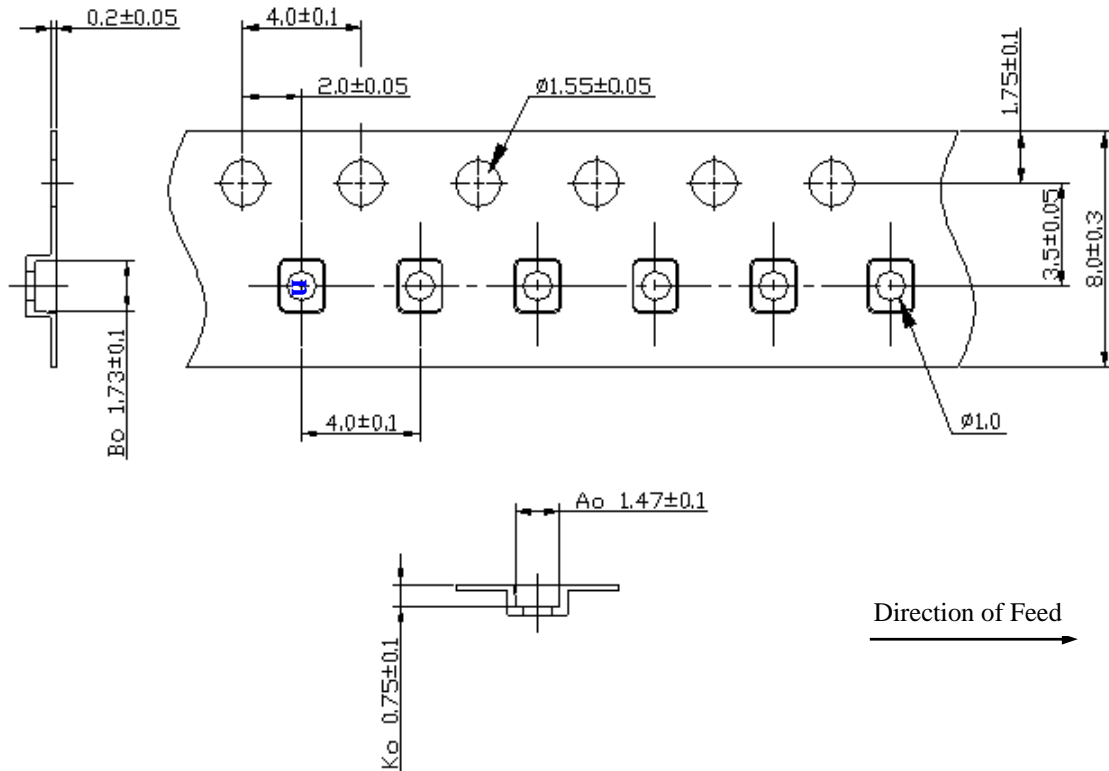
F. PACKING:

1. REEL DIMENSION

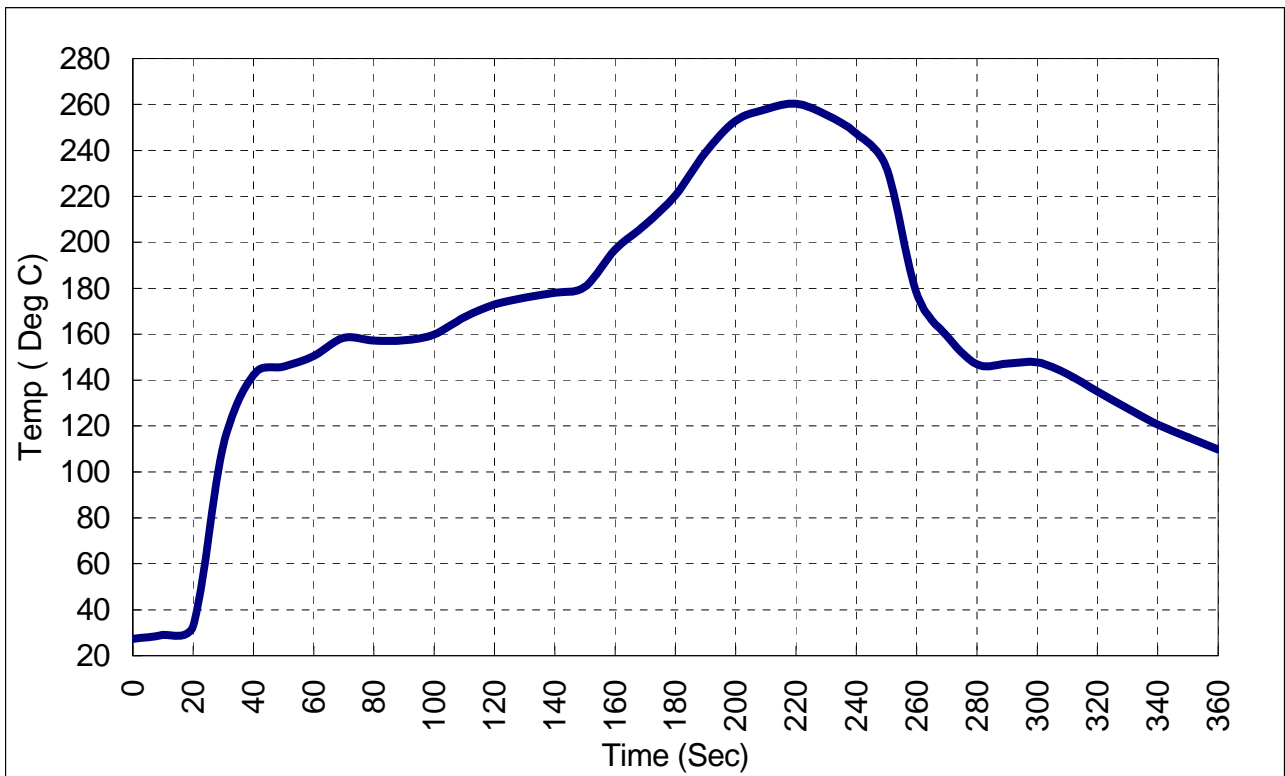
(Please refer to FR-75D10 for packing quantity)



2.TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :



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Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Crystals](#) category:

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