



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 402 MHz SMD 3.8x3.8 mm (BW=4 MHz)

TST Part No.: TA0980A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang 張閔智

Approved by: _____ Francis Chen 

Date: _____ 2012/04/02

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 402 MHz

MODEL NO.: TA0980A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

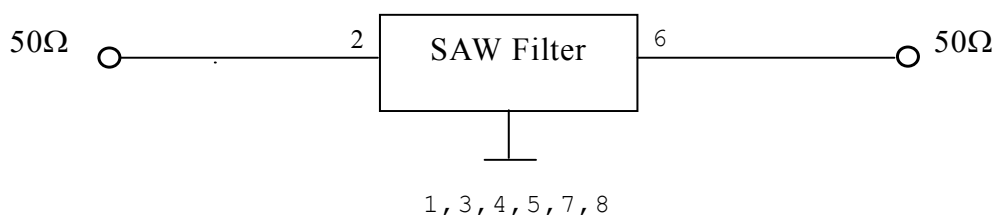
B. ELECTRICAL CHARACTERISTICS:

Item			Unit	Min.	Type.	Max.
Center frequency		F _c	MHz	-	402	-
Insertion Loss	400~404 MHz	IL	dB	-	2.0	4.5
Amplitude ripple	400~404 MHz		dB	-	0.5	2.0
Attenuation:(Reference level from 0 dB)						
202 ~ 372 MHz			dB	45	65	-
372 ~ 382 MHz			dB	40	55	-
382 ~ 392 MHz			dB	30	42	-
412 ~ 422 MHz			dB	30	34	-
422 ~ 432 MHz			dB	40	55	-
432 ~ 602 MHz			dB	45	55	-
800 ~ 1300 MHz			dB	40	43	-
Source impedance		Z _s	Ω	-	50	-
Load impedance		Z _L	Ω	-	50	-

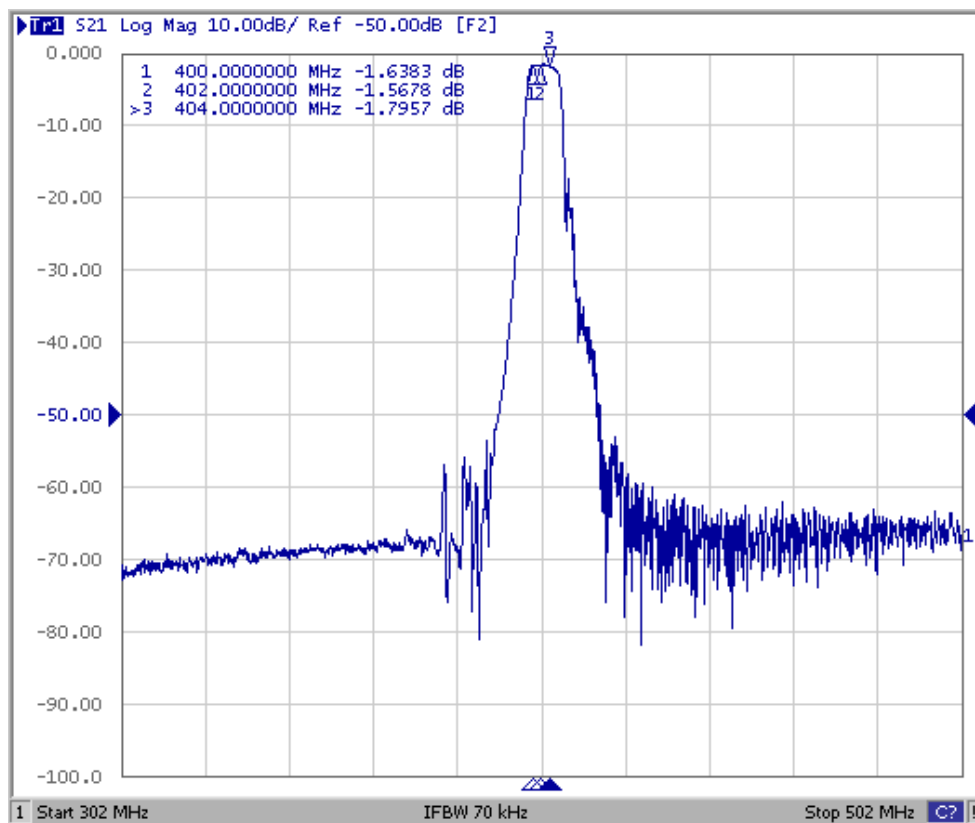
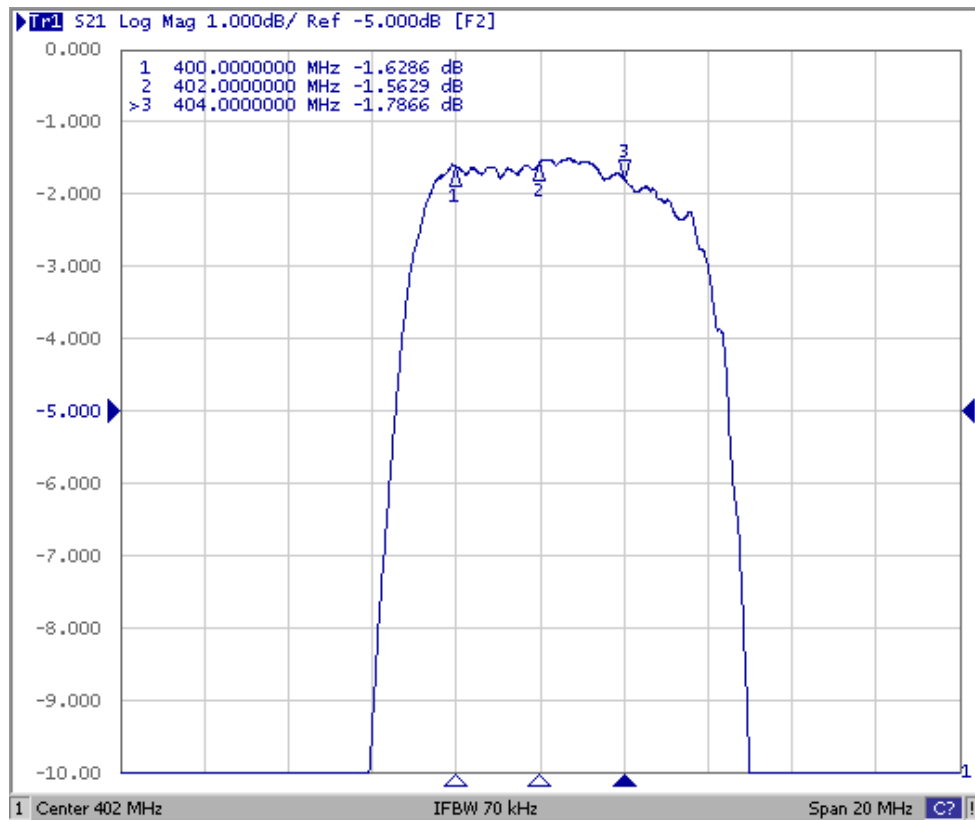
Note1: No matching network required for operation at 50 Ω.

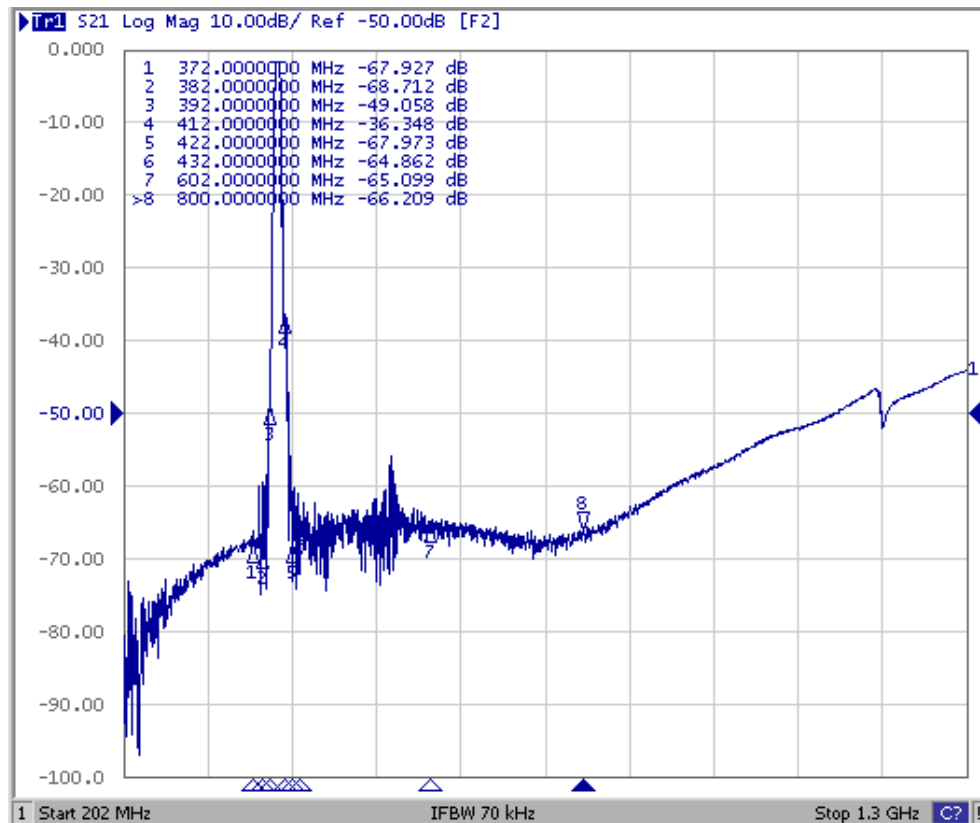
C. MEASUREMENT CIRCUIT:

HP Network analyzer

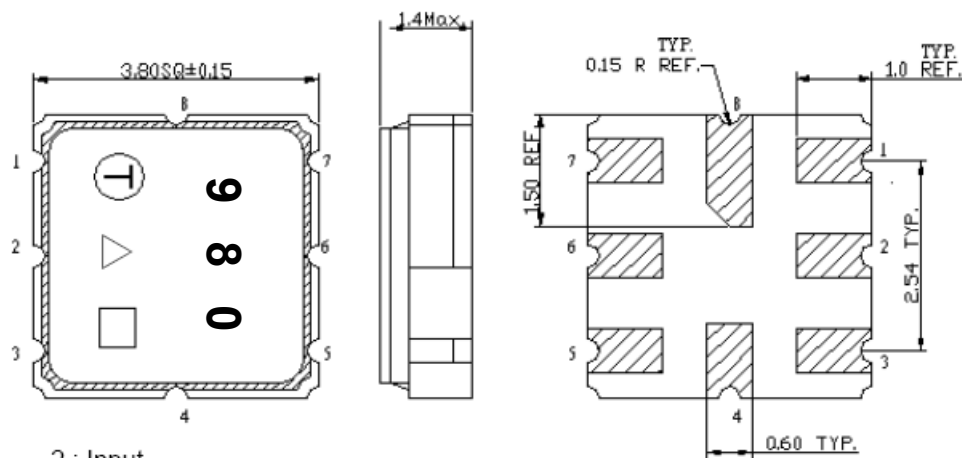


D. Frequency Characteristics:





E. OUTLINE DRAWING:



- 2 : Input
 6 : Output
 1,3,4,5,7,8 : Ground
 △ : Year Code
 □ : Date Code (W01->A, W02->B,...,W52->z)

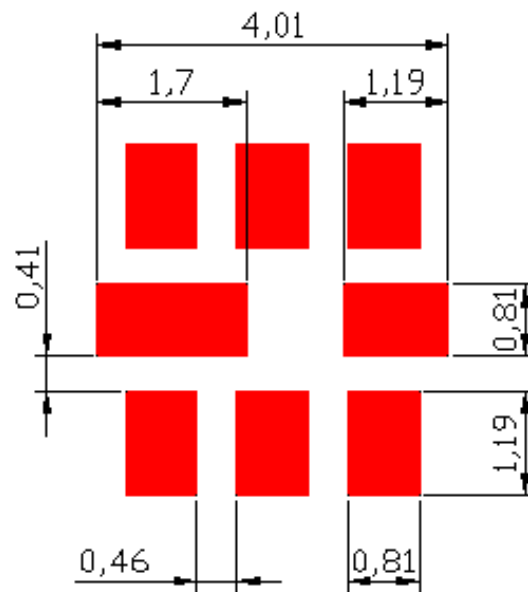
△ Product Year Code

Year	2011	2012
	2013	2014
	2015	2016
	2017	2018
	Product Code	a

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

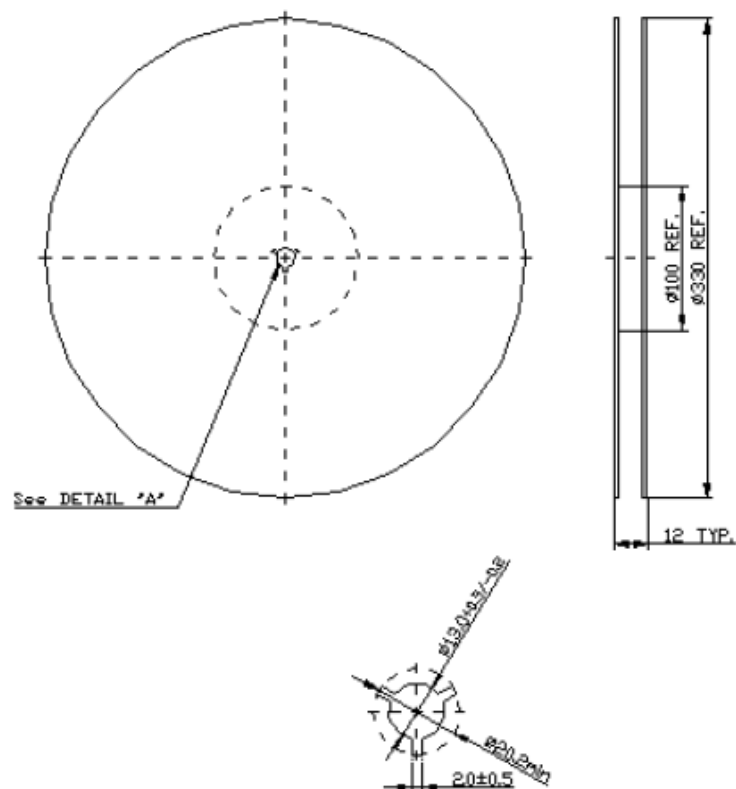
F. PCB FOOTPRINT:



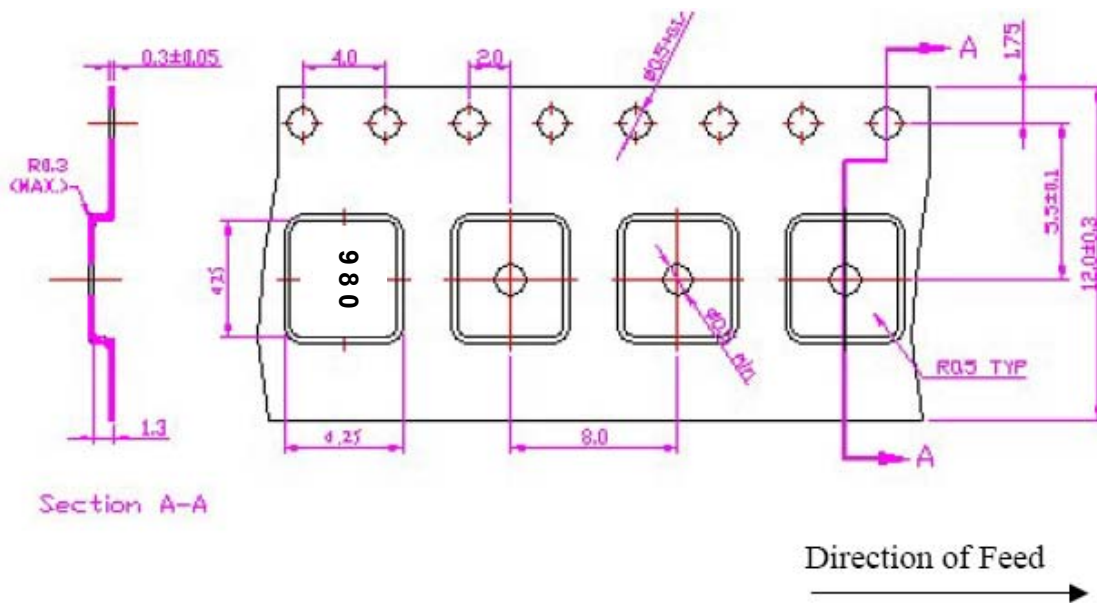
G. PACKING:

1. REEL DIMENSION

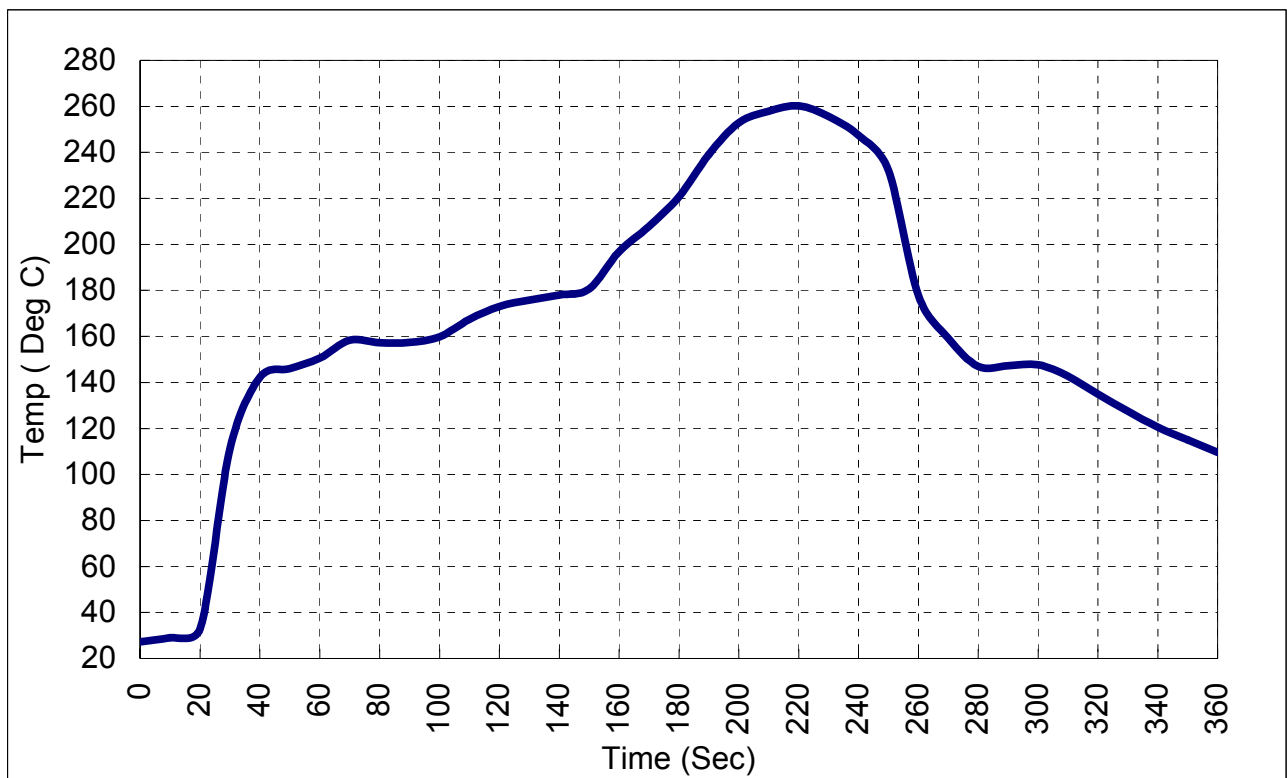
(Reel Count : 7"=1000 ; 13"=3000 or per the request of customer order)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:





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 402 MHz

MODEL NO.: TA0980A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

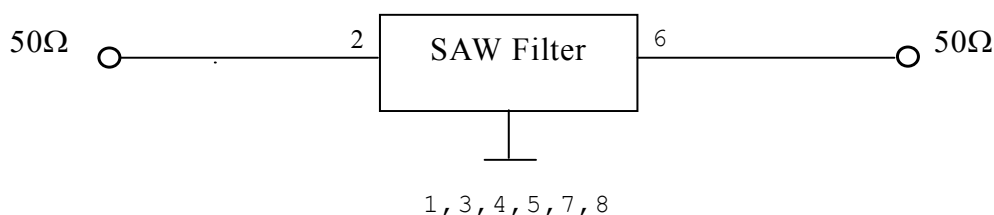
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	402	-
Insertion Loss 400~404 MHz IL	dB	-	2.0	4.5
Amplitude ripple 400~404 MHz	dB	-	0.5	2.0
Attenuation:(Reference level from 0 dB)				
202 ~ 372 MHz	dB	45	65	-
372 ~ 382 MHz	dB	40	55	-
382 ~ 392 MHz	dB	30	42	-
412 ~ 422 MHz	dB	30	34	-
422 ~ 432 MHz	dB	40	55	-
432 ~ 602 MHz	dB	45	55	-
800 ~ 1300 MHz	dB	40	43	-
Source impedance Zs	Ω	-	50	-
Load impedance ZL	Ω	-	50	-

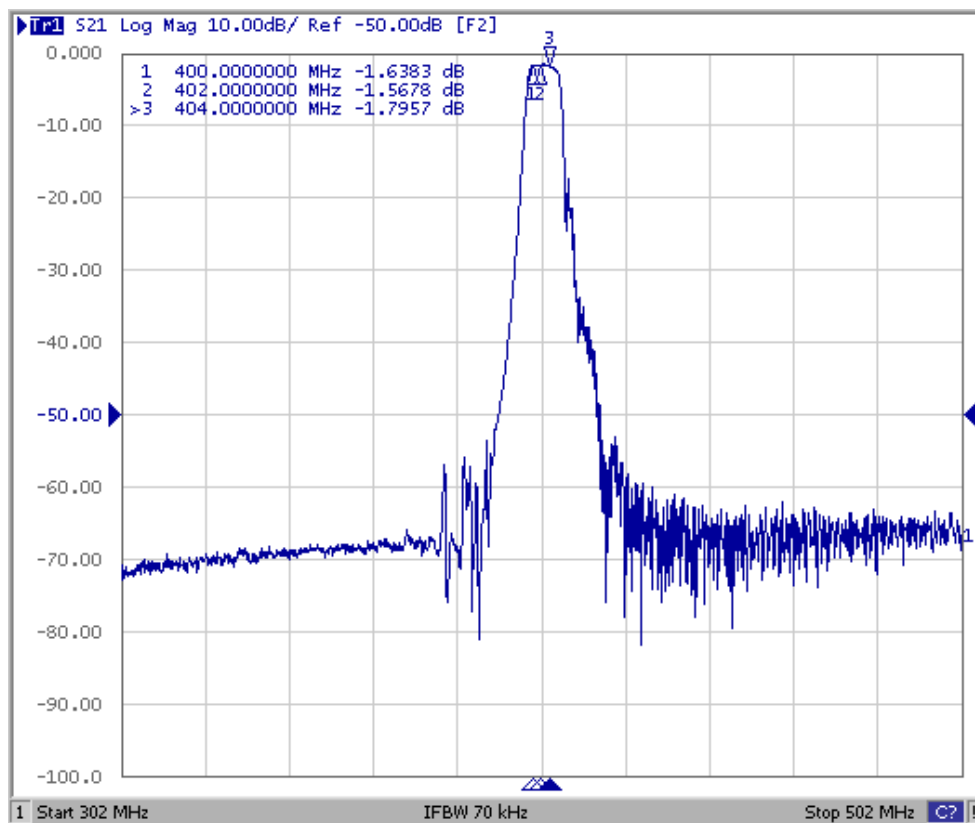
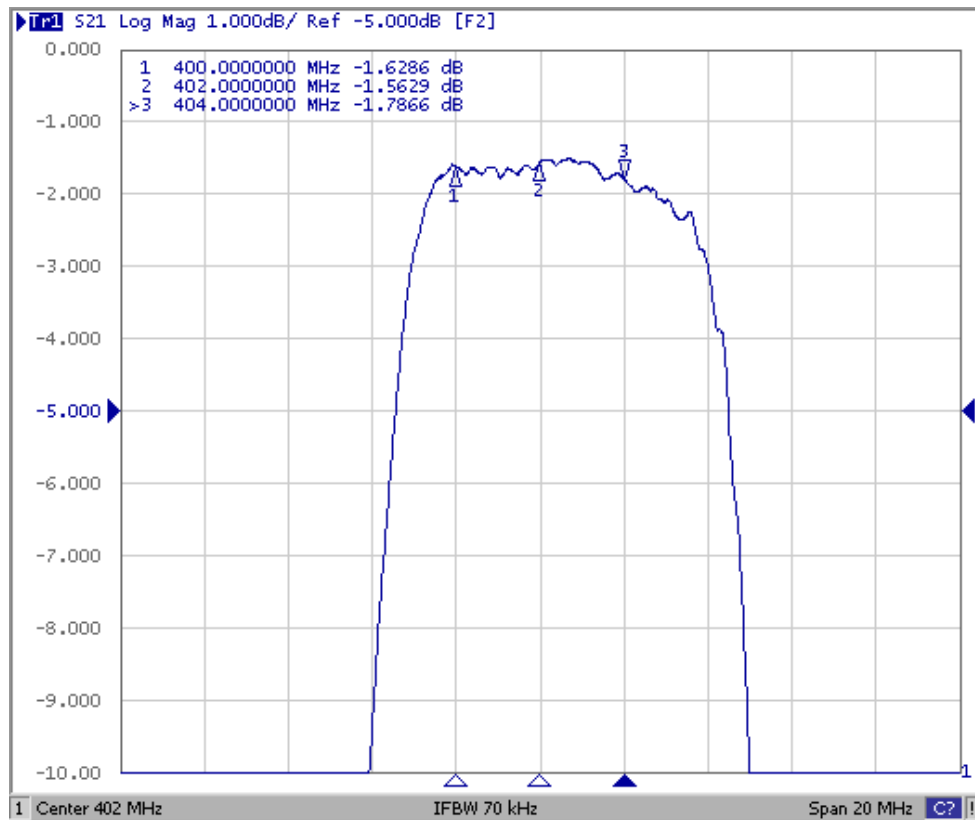
Note1: No matching network required for operation at 50 Ω.

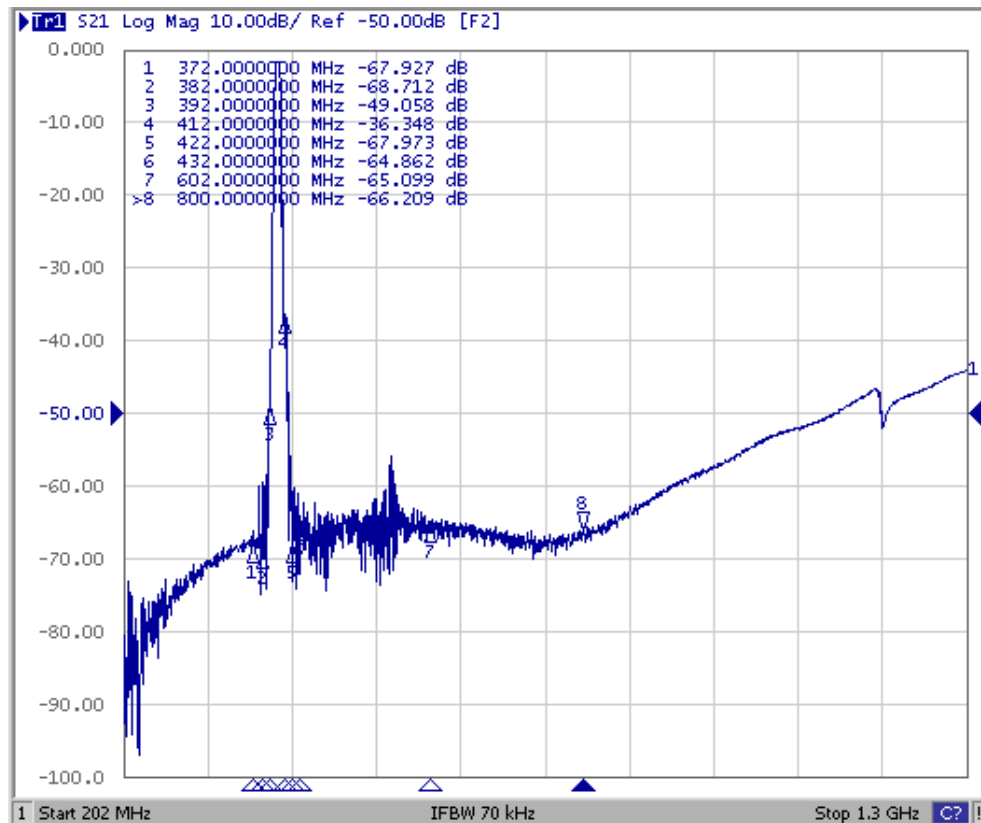
C. MEASUREMENT CIRCUIT:

HP Network analyzer

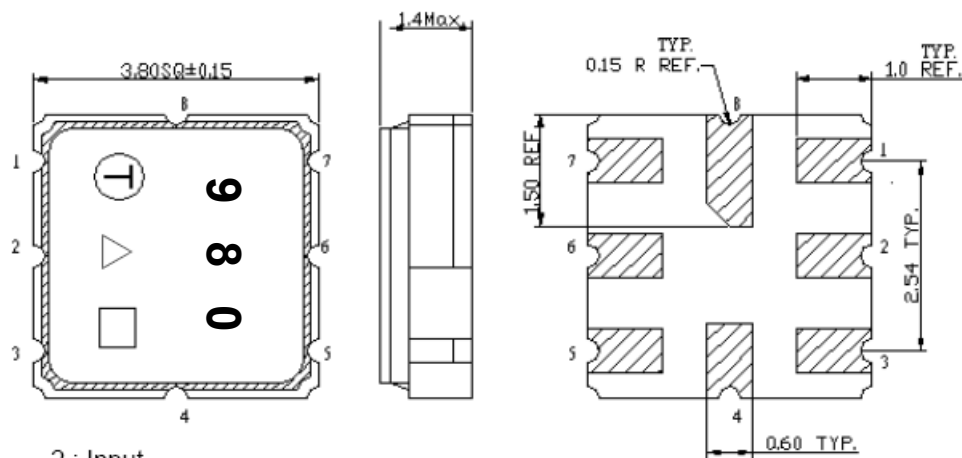


D. Frequency Characteristics:





E. OUTLINE DRAWING:



- 2 : Input
 6 : Output
 1,3,4,5,7,8 : Ground
 △ : Year Code
 □ : Date Code (W01->A, W02->B,...,W52->z)

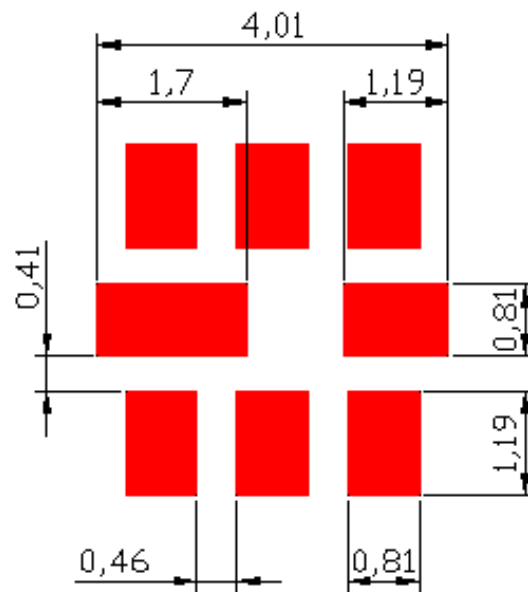
△ Product Year Code

Year	2011	2012
	2013	2014
	2015	2016
	2017	2018
	Product Code	a

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

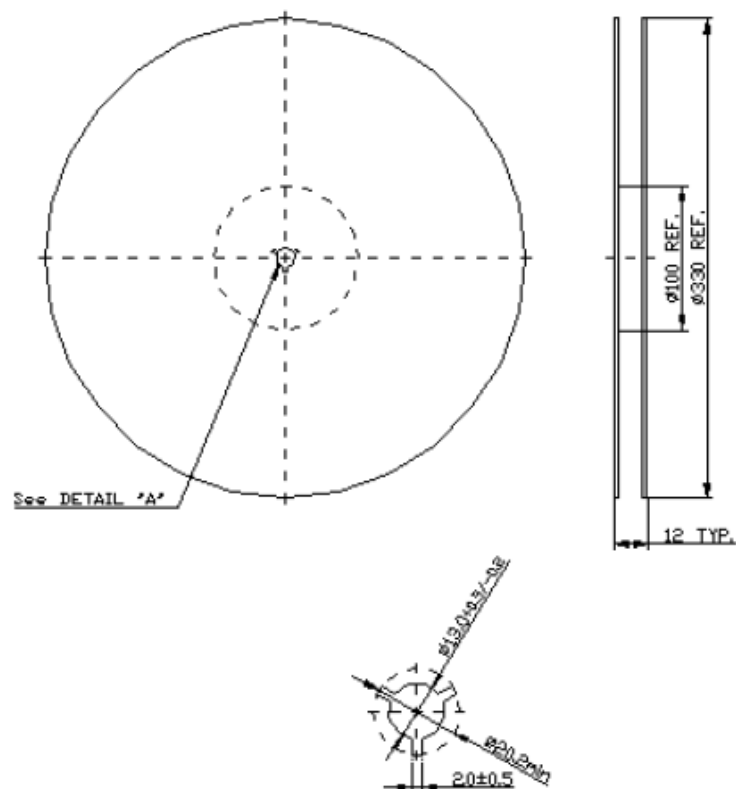
F. PCB FOOTPRINT:



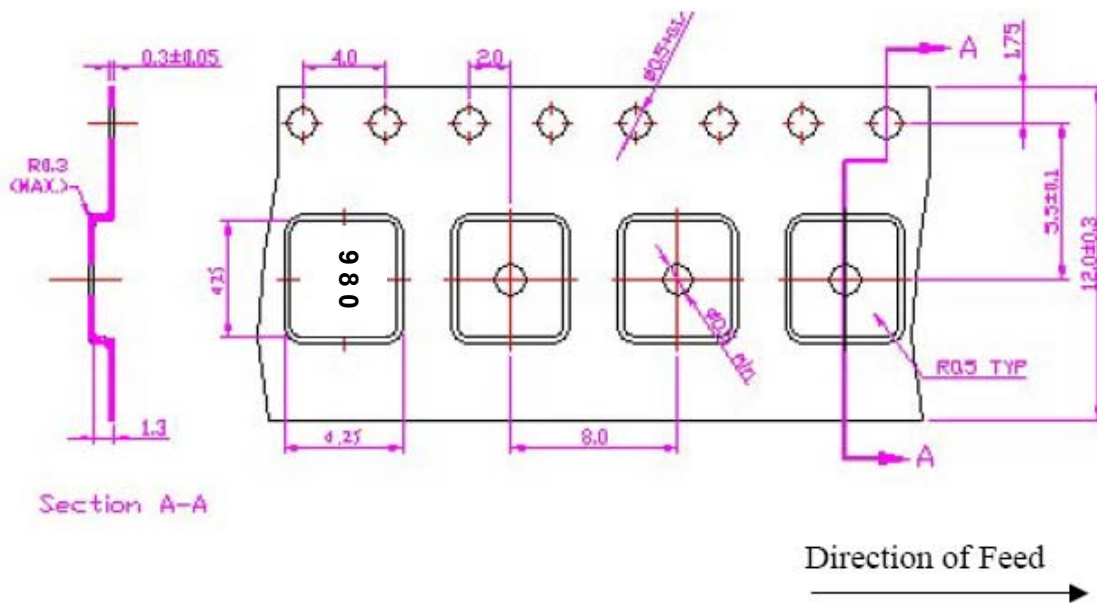
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=1000 ; 13"=3000 or per the request of customer order)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

