

# SAW Filter 2441.75 MHz

MODEL NO.:TA1834C

REV. NO.:1.0

## A. MAXIMUM RATING:

1. Input Power Level: 23 dBm (in pass band)
2. DC Voltage :  $\pm 5V$
3. Operating Temperature:  $-40^{\circ}C$  to  $+105^{\circ}C$
4. Storage Temperature:  $-40^{\circ}C$  to  $+105^{\circ}C$
5. Moisture Sensitive Level: Level 1 (MSL1)
6. ESD: 50 V(MM), 100 V(HBM)

RoHS Compliant  
Lead free  
Lead-free soldering

**Electrostatic Sensitive Device (ESD)**

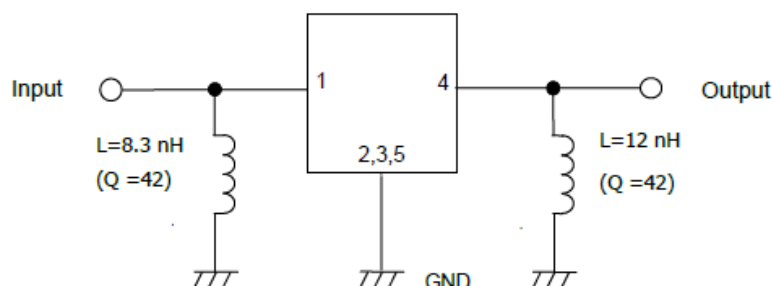
## B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance:  $Z_s = 50//8.3nH \Omega$

Terminating load impedance:  $Z_L = 50//12nH \Omega$

Item	Unit	Min.	Typ.	Max.
<b>Center Frequency</b> <span style="float: right;"><b>Fc</b></span>	MHz	-	2441.75	-
<b>Insertion Loss</b> (2400~2483.5 MHz)	dB	-	3.0	3.9
<b>Amplitude Ripple</b> (2400~2483.5 MHz)	dB	-	1.2	2.3
<b>VSWR within</b> (2400~2483.5 MHz)	-	-	2.1	2.5
<b>Attenuation</b> (Reference level from 0 dB)				
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	-

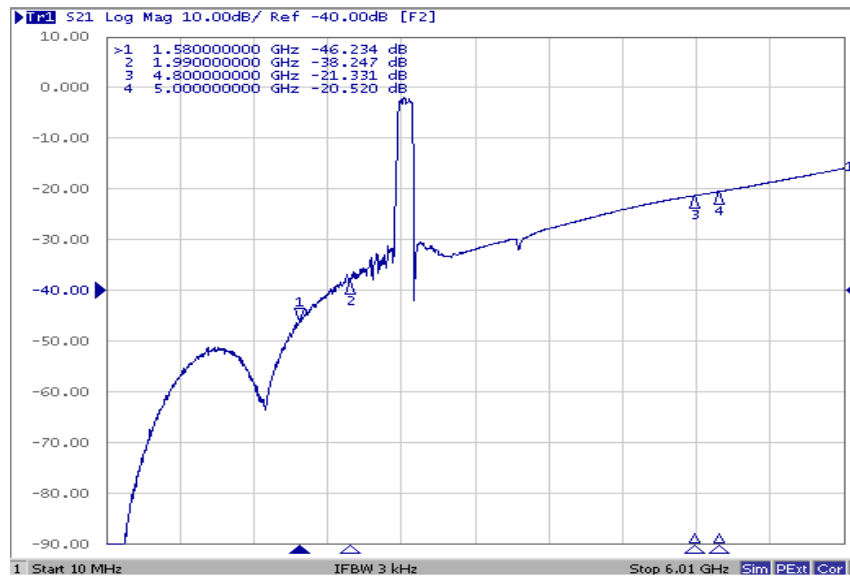
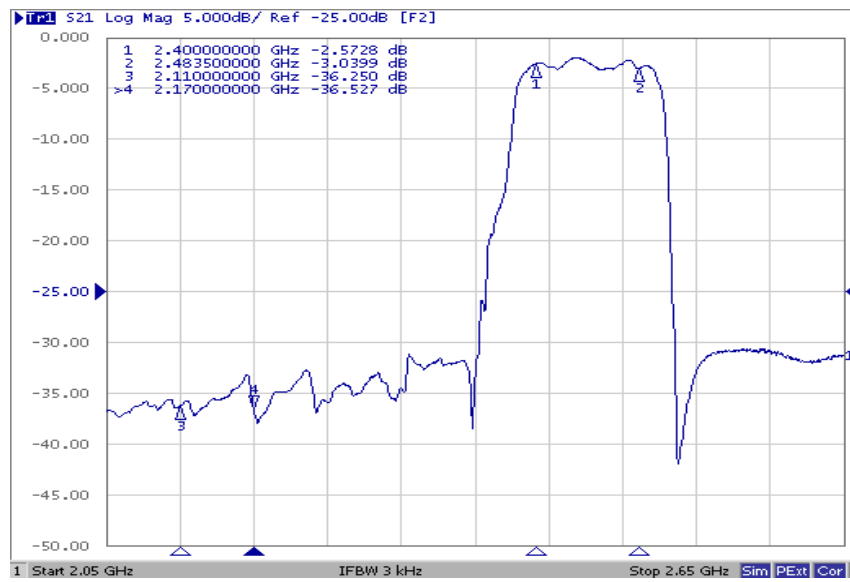
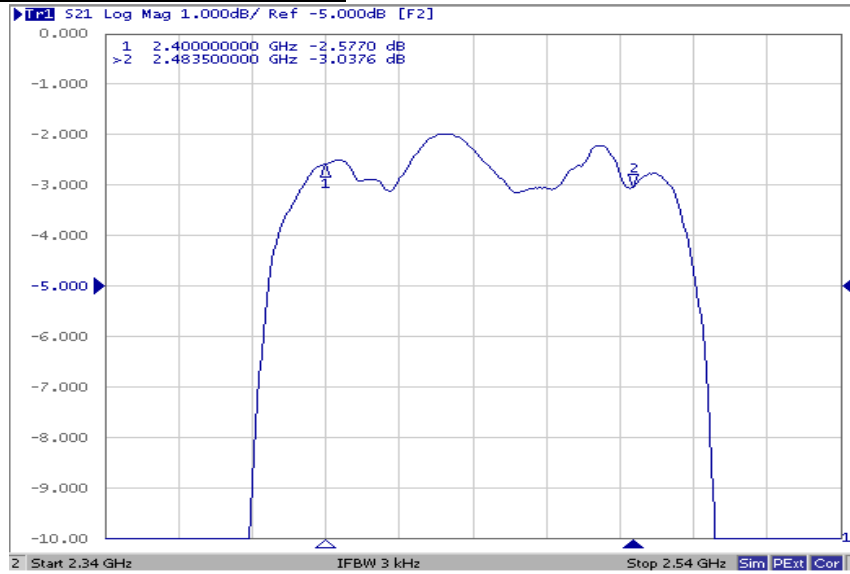
## C. MEASUREMENT CIRCUIT:



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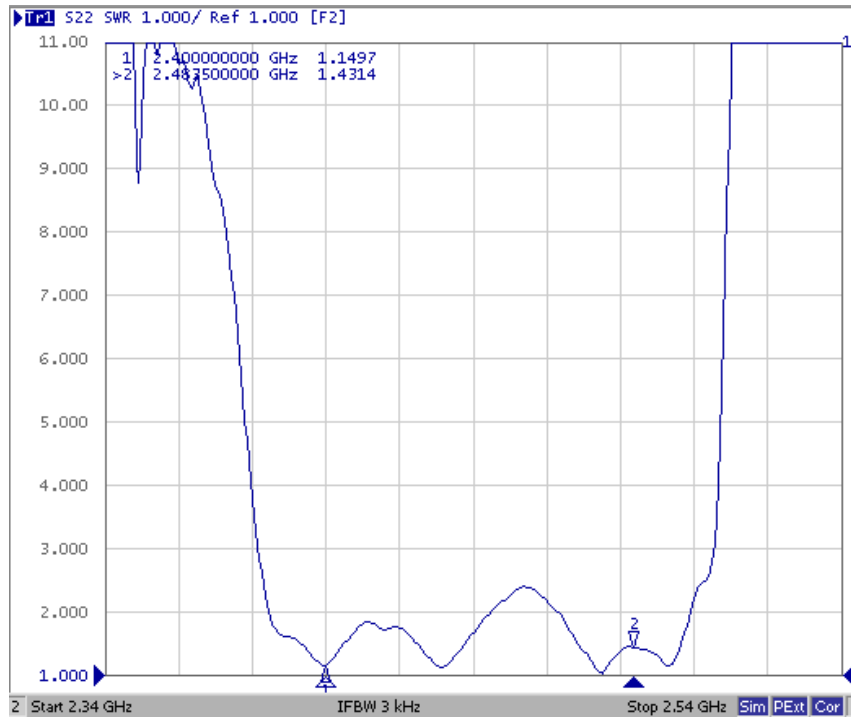
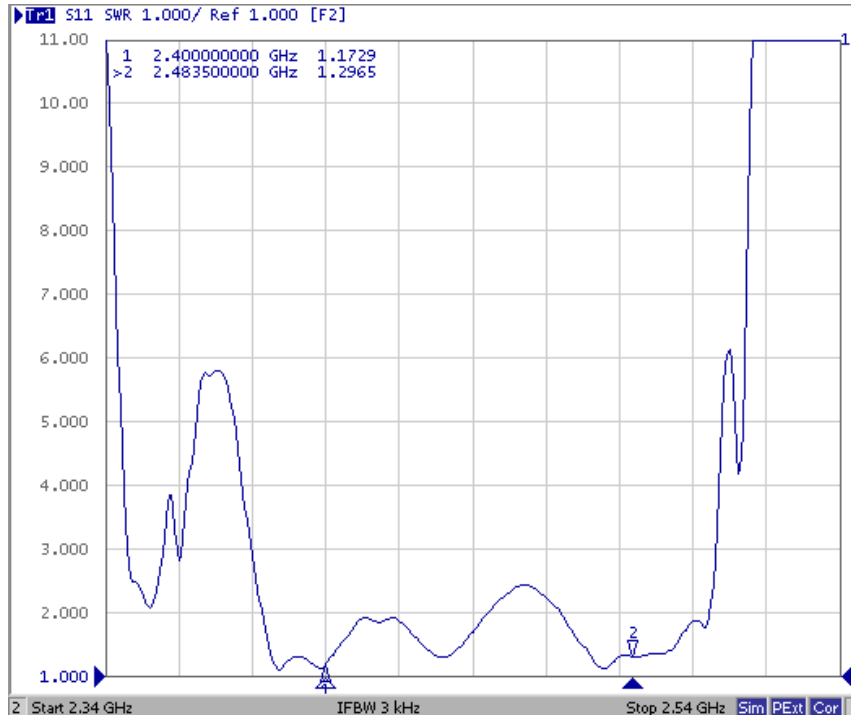
**TST DCC**  
Release document

## D. FREQUENCY CHARACTERISTICS:

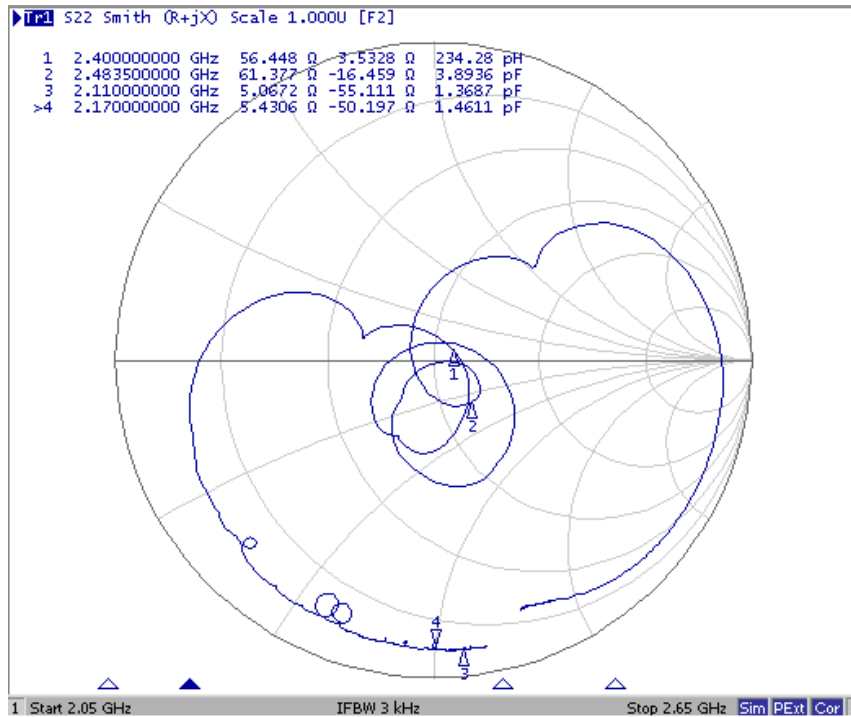
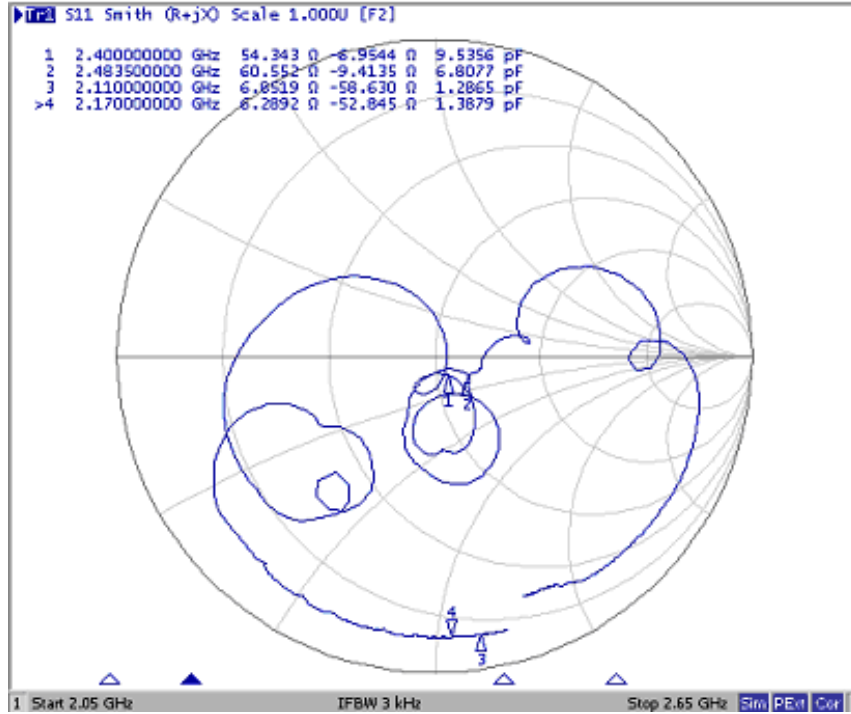


# Reflection Functions:

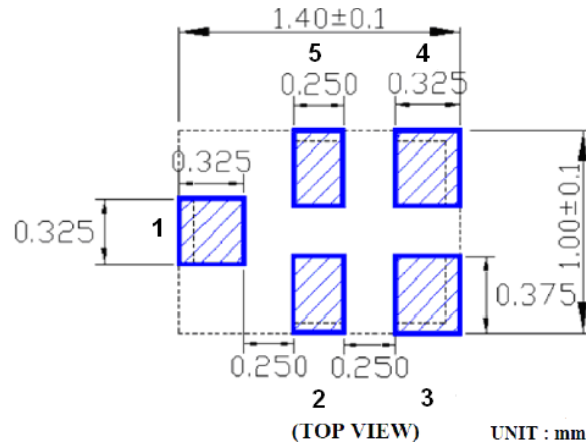
## VSWR



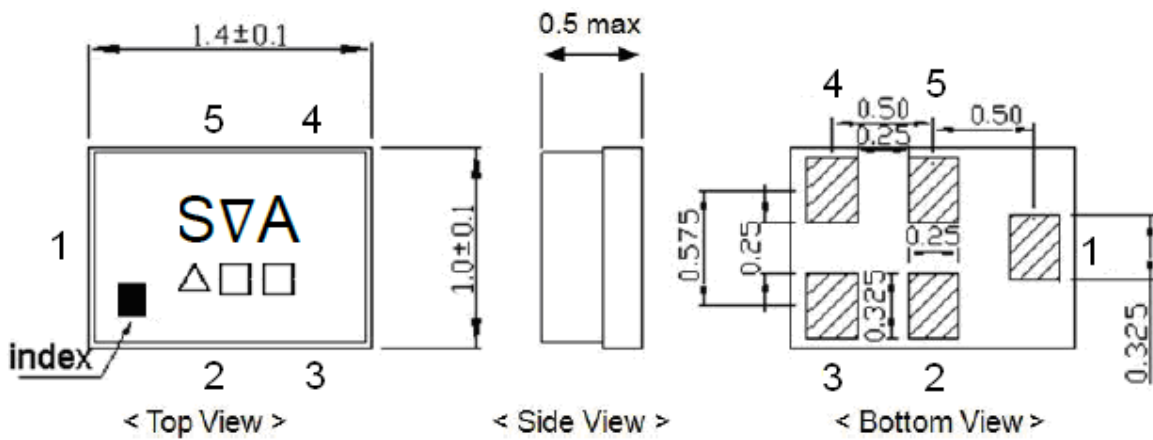
## Smith Chart



**E. PCB Footprint:**



**F. OUTLINE DRAWING (Mass Production):**



**Pin Configuration**

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

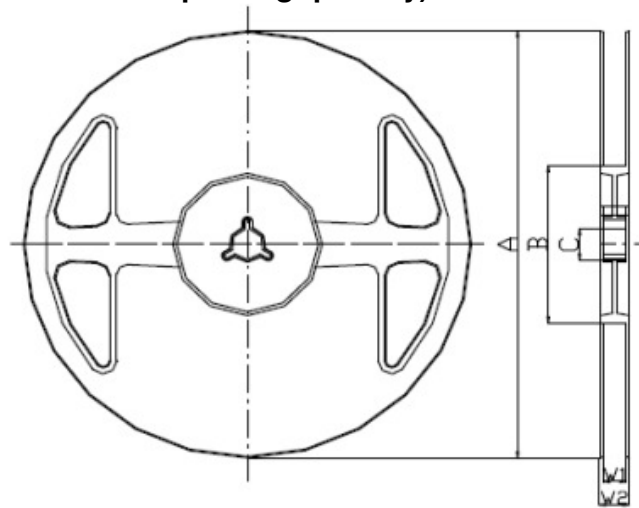
**Date Code:**

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

**G. PACKING:** (Ref: WI-75M03)

1. REEL DIMENSION

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



**Materials of Reel**

Material : Polystyrene + Carbon

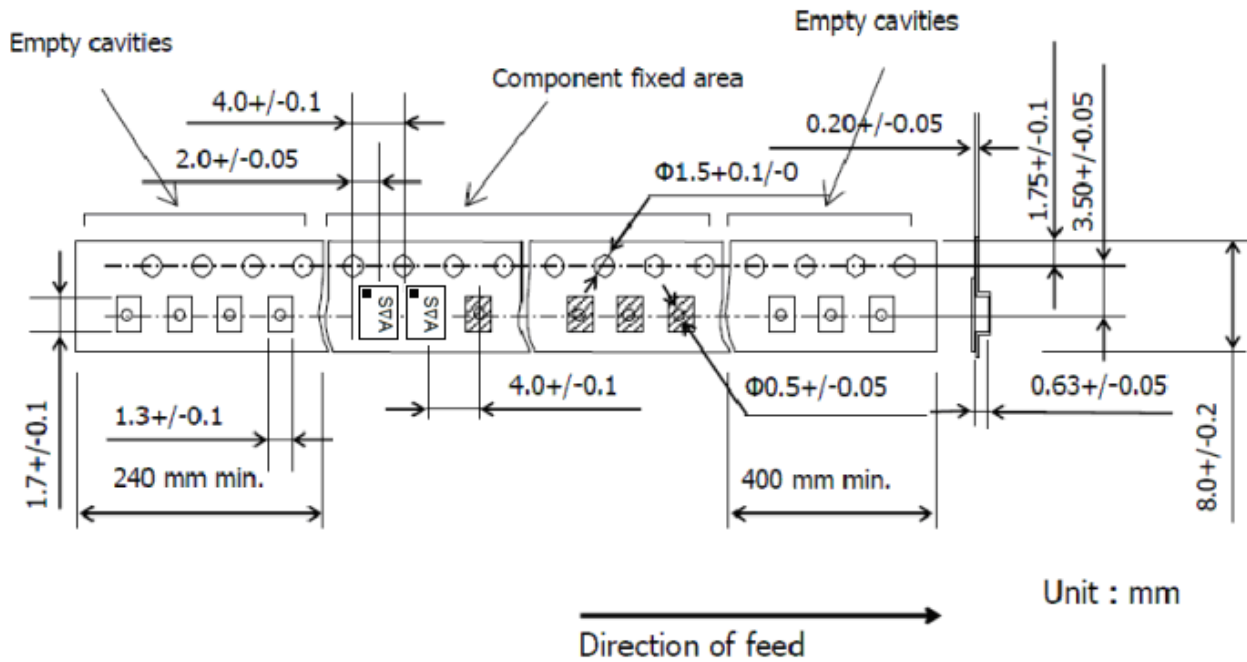
Color : Black

Surface resistance (reference value) :  $10^9 \Omega/\text{sq}$  Max.

Unit : mm

Code	Quantity	A	B	C	W1	W2
Z	3,000 pcs	$\phi 180.0 +0.0/-1.5$	$\phi 66.0 +/-0.5$	$\phi 13.0 +/-0.2$	$9.0 +1.0/-0.0$	$11.4 +/-1.0$

2. TAPE DIMENSION



Unit : mm

### H. Recommended Reflow Profile:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

