

# SAW Filter 530 MHz

MODEL NO.: TA2420A

REV. NO.:3

## A. MAXIMUM RATING:

1. Input Power Level: 20 dB<sub>m</sub>(CW for 70000hrs at 25°C)
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

RoHS Compliant  
Lead free  
Lead-free soldering

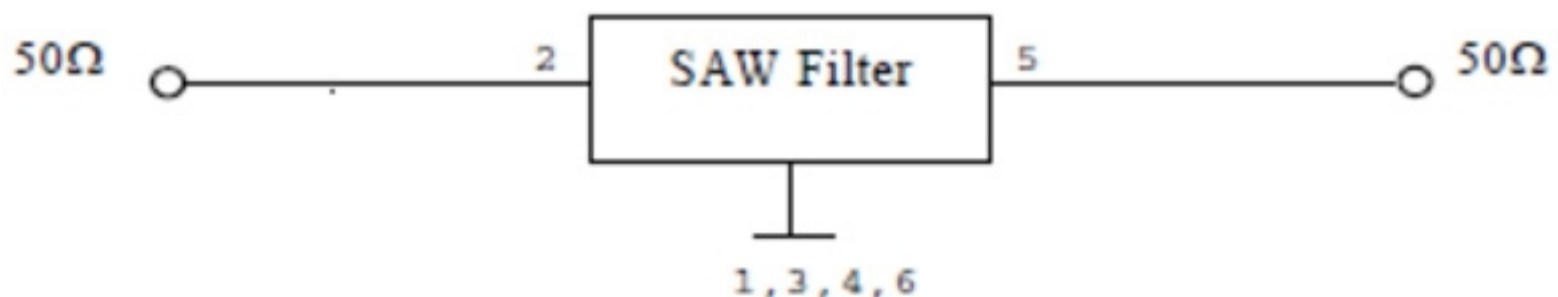
Electrostatic Sensitive Device (**ESD**)

## B. ELECTRICAL CHARACTERISTICS:

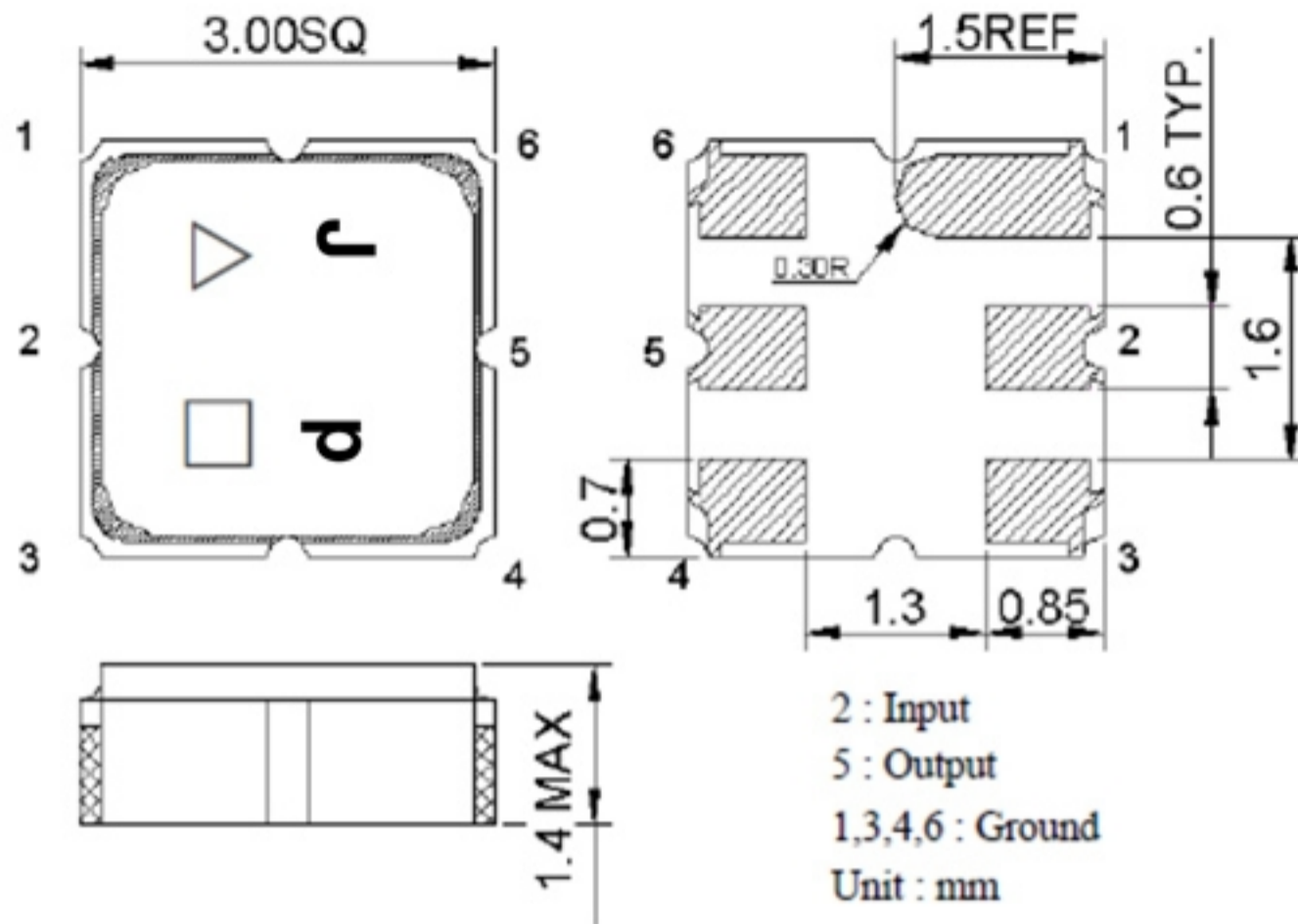
Item	Unit	min	type	Max	
Center Frequency Fc	MHz		530		
Insertion Loss 518~542MHz (0°C to +50°C)	dB		2.3	3.5	
Insertion Loss 518~542MHz (-40°C to +105°C)	dB		2.3	4.0	
Return Loss 518~542MHz (0°C to +50°C)	dB	12	15		
Pass band 518~542MHz	MHz	24	35		
<b>Attenuation</b> (Reference level from 0dB)					
10~360 MHz	dB	<b>48</b>	54		
360~470 MHz	dB	35	45		
620~850 MHz	dB	38	44		
850~1100 MHz	dB	32	40		
Temperature Coefficient of Frequency	ppm/°C	-75 typ			

## C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D. OUTLINE DRAWING:**

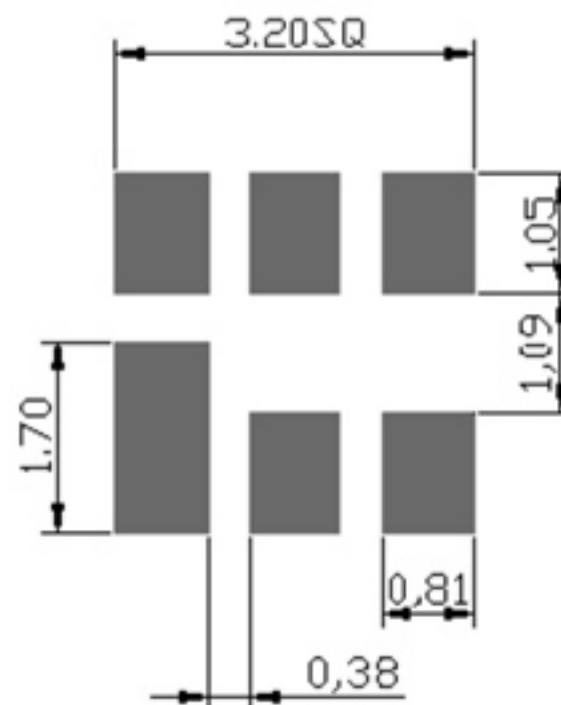


- $\triangle$  : Year Code (2009->9, 2010->0, ..., 2018->8)
- $\square$  : Date Code (Follow the table from planner each year)

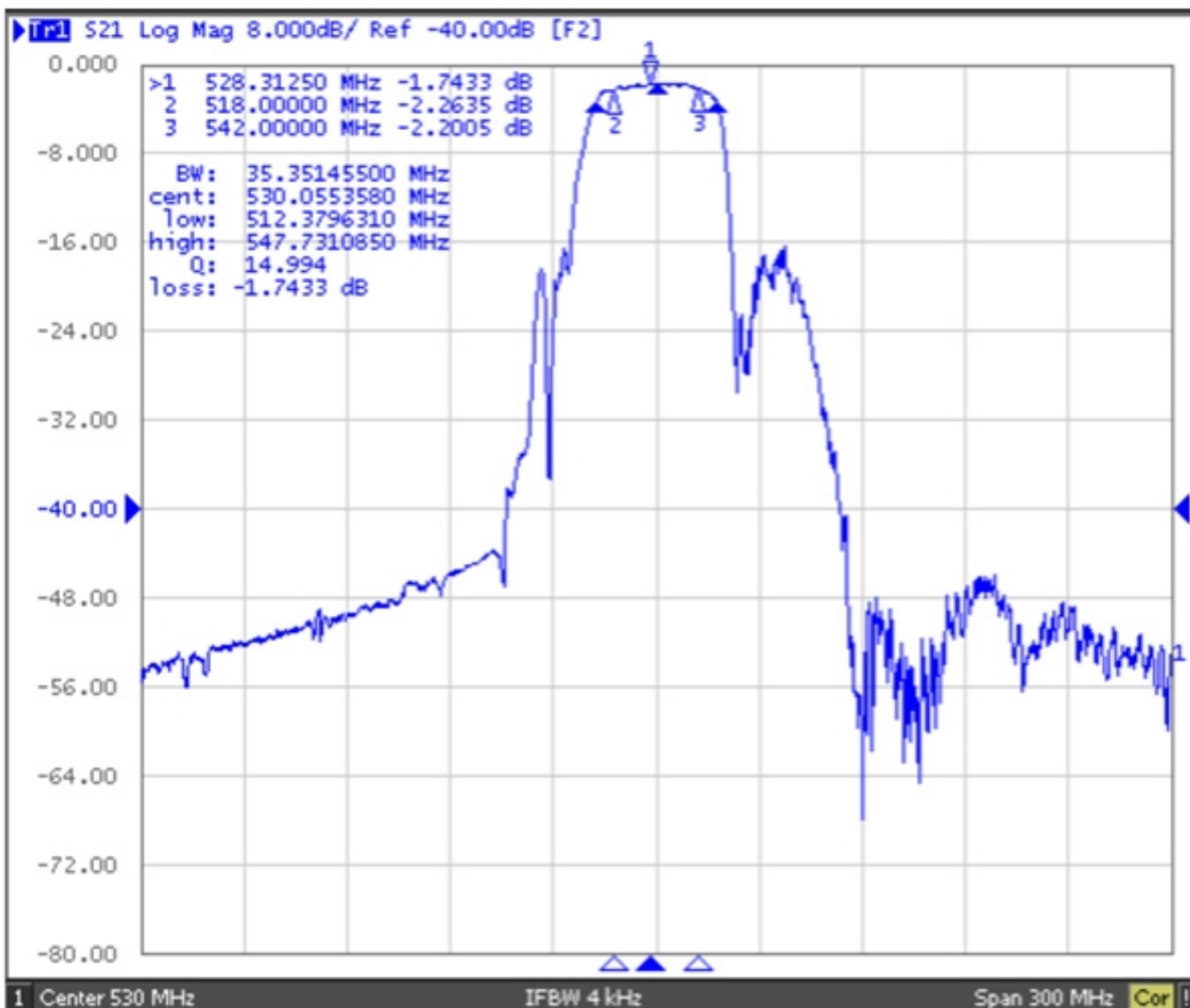
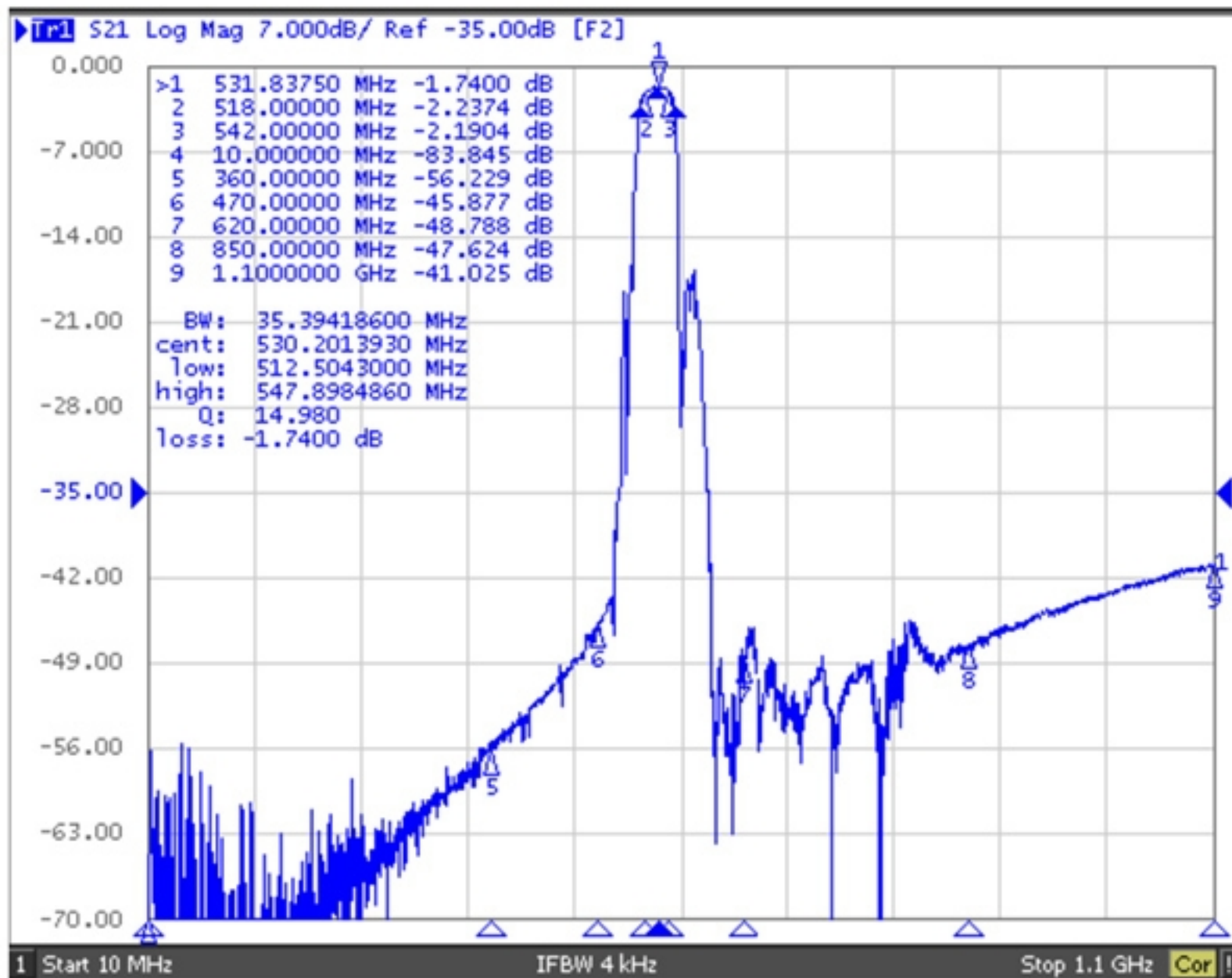
Date Code Table

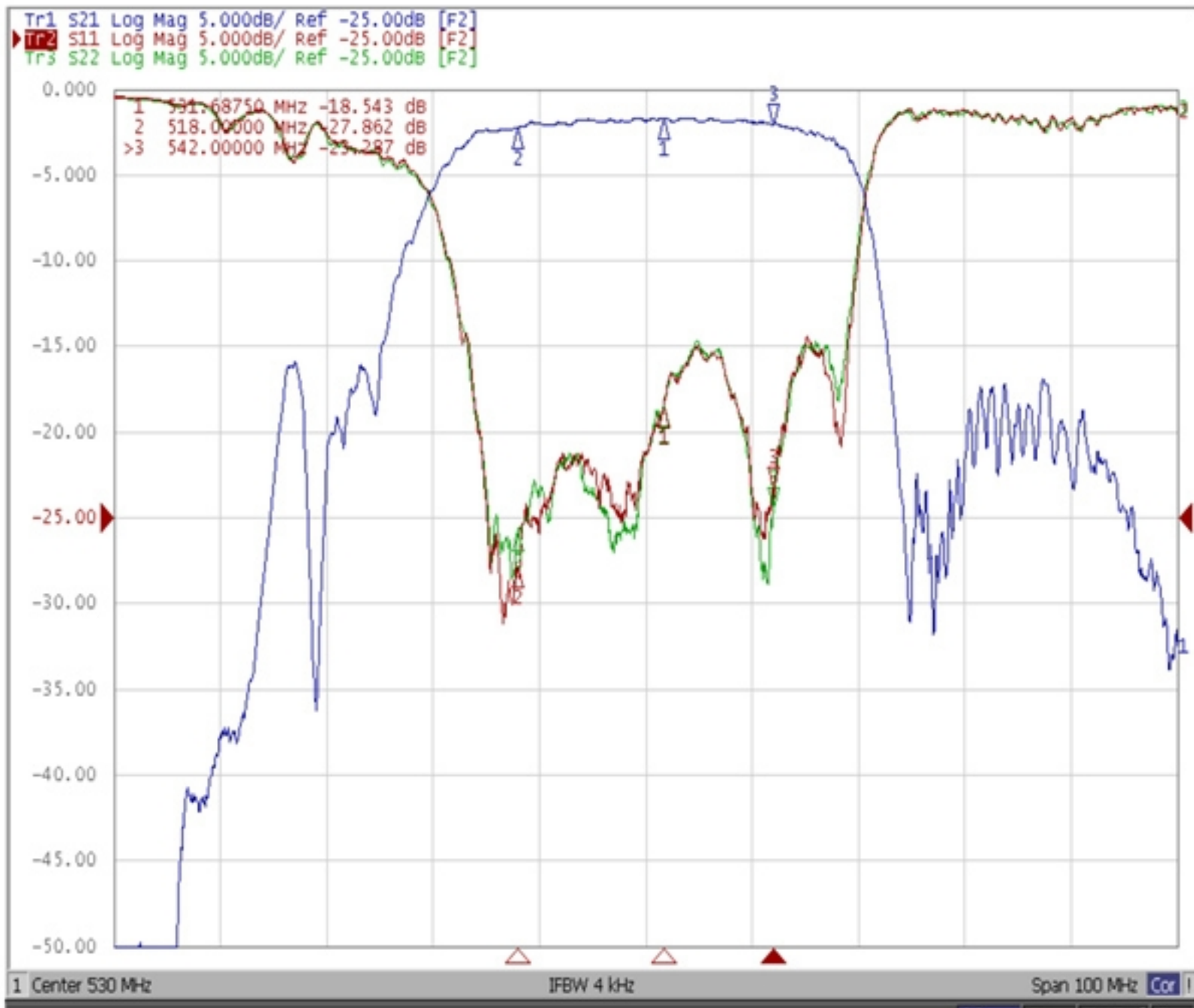
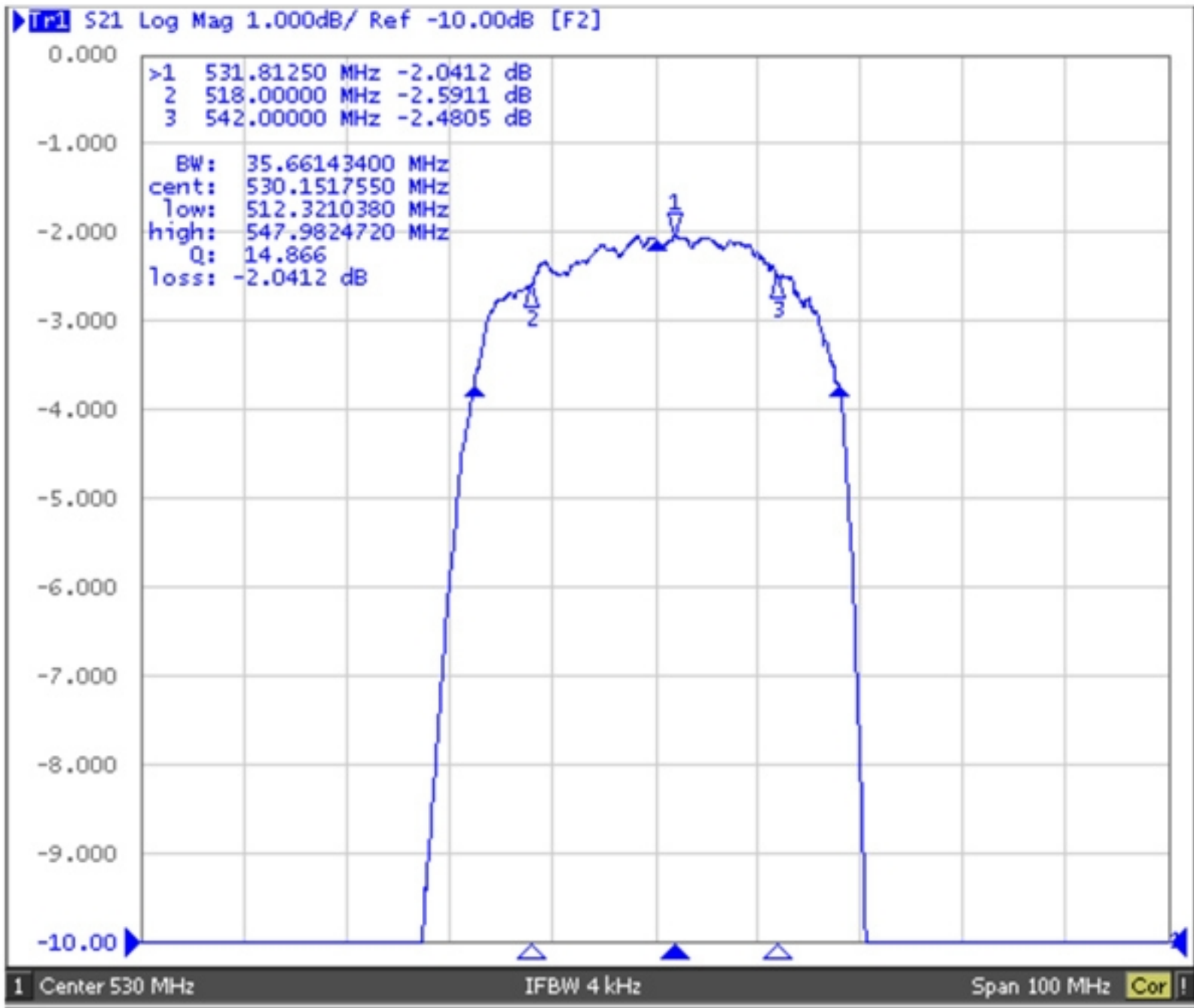
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

**E. PCB Footprint:**



## F. Frequency Characteristics:

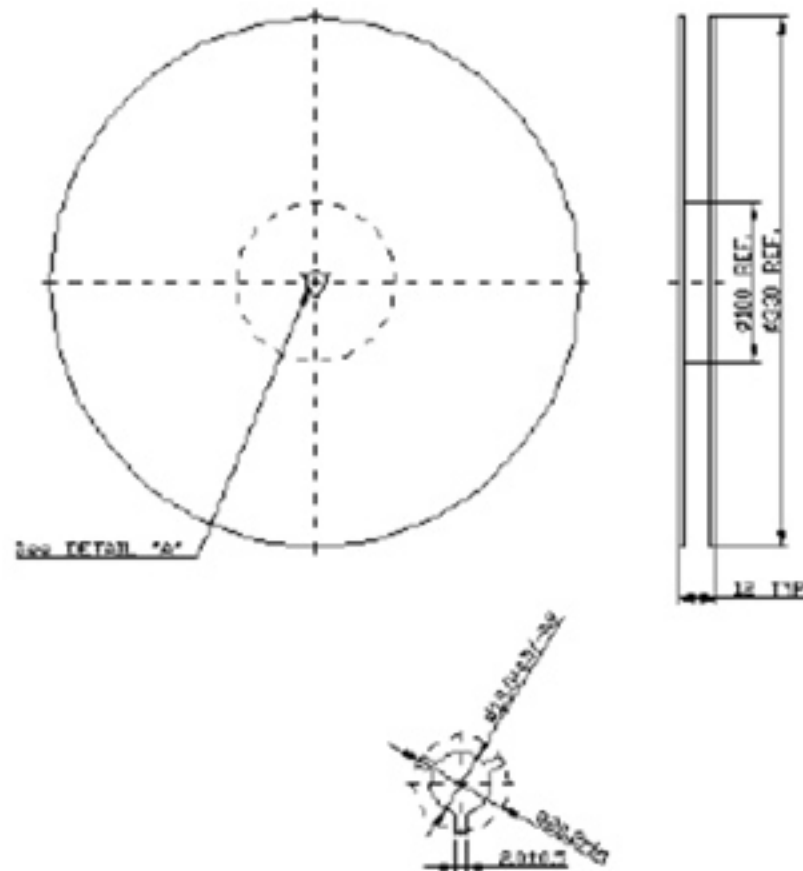




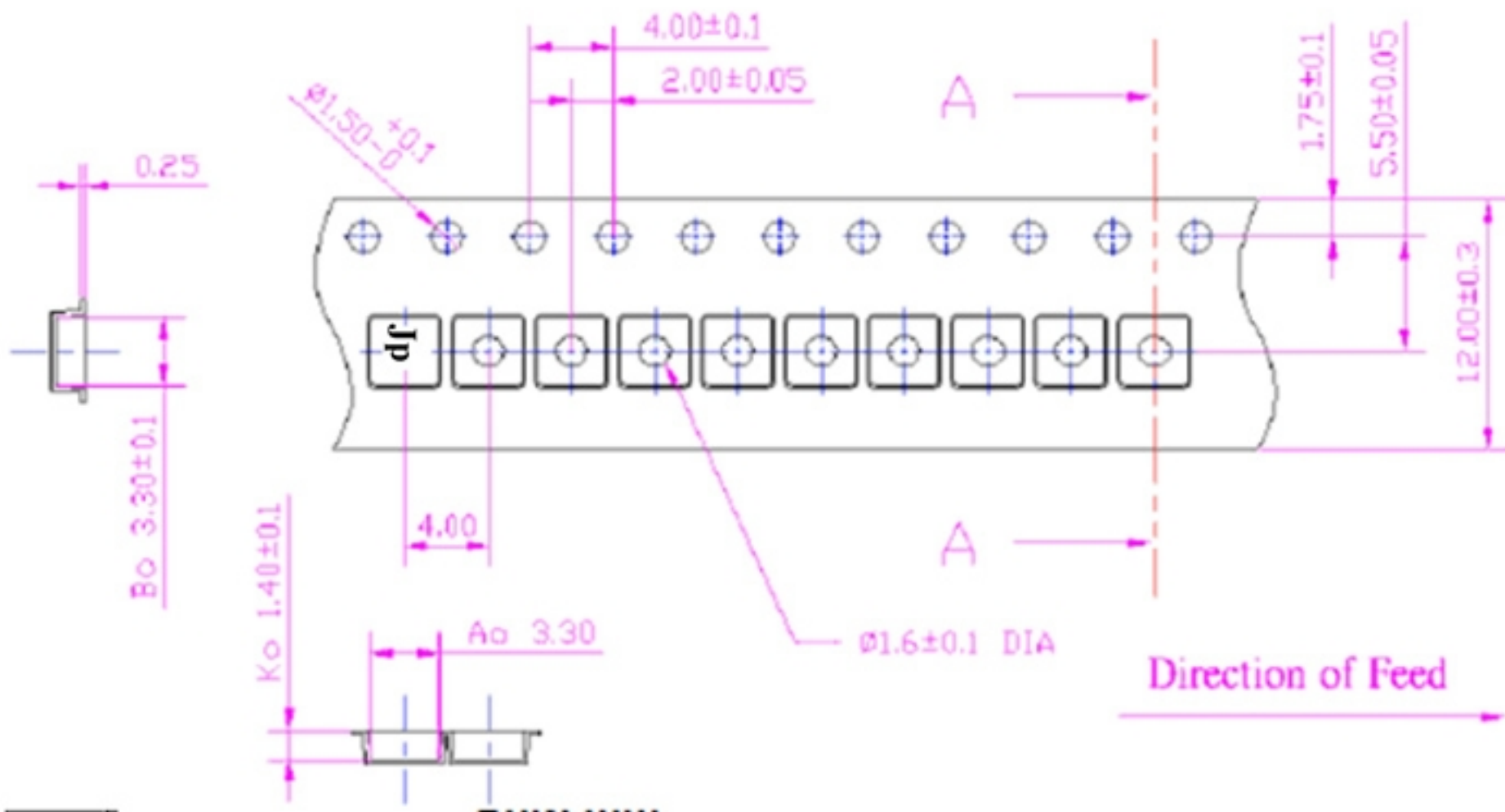
**G. PACKING: (Ref. WI-75M03)**

**1. REEL DIMENSION**

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



**2. TAPE DIMENSION**



### H. Recommended Reflow Profile:

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

