

# SAW Filter 521 MHz

MODEL NO.: TA2505A

REV. NO.:1

## A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

RoHS Compliant  
Lead free  
Lead-free soldering

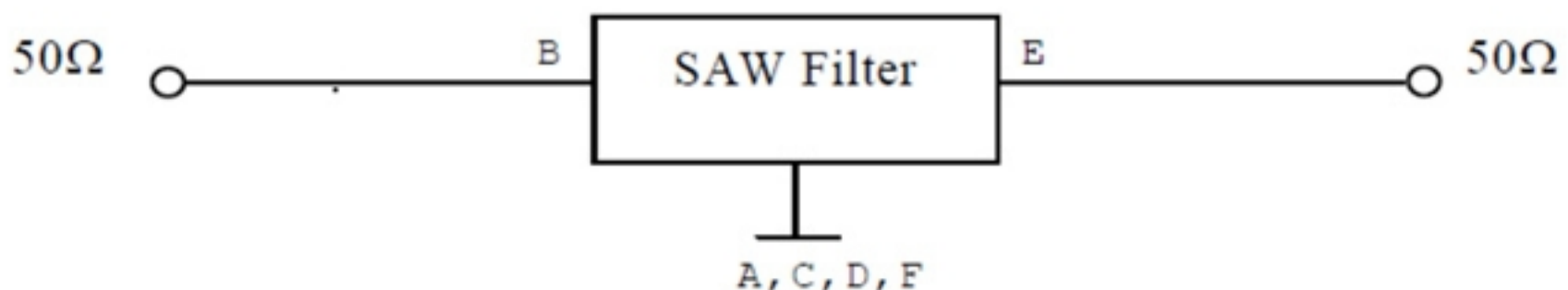
Electrostatic Sensitive Device (**ESD**)

## B. ELECTRICAL CHARACTERISTICS:

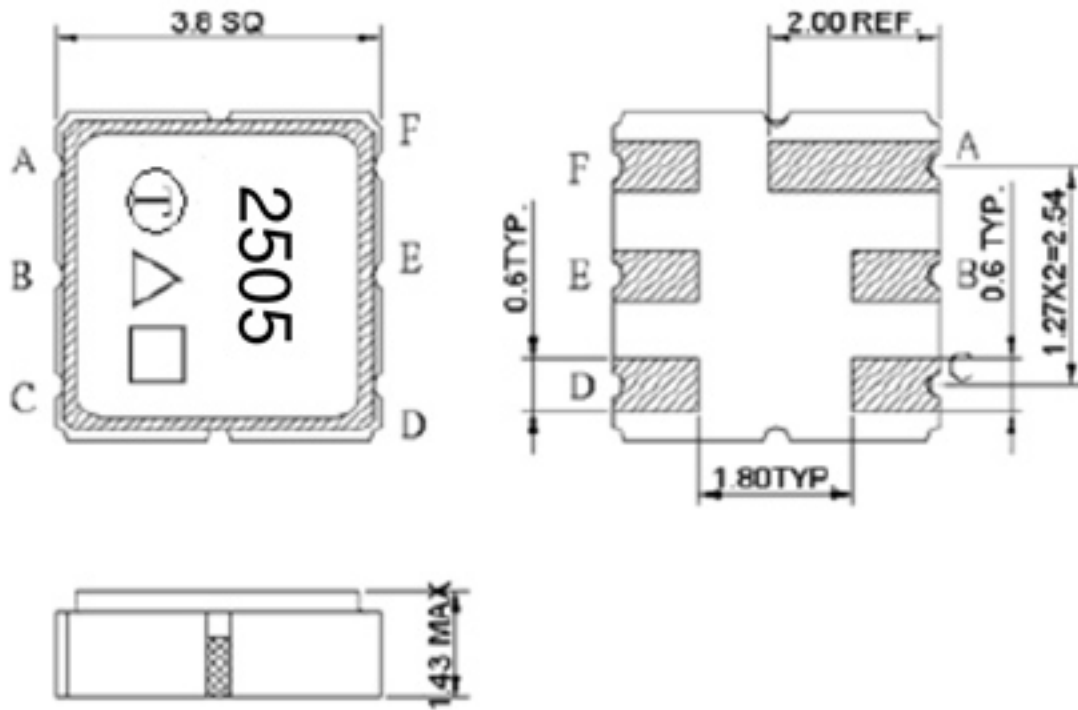
Item	Unit	min	type	Max	
Center Frequency Fc	MHz		521		
Insertion Loss 506~536MHz IL(25°C)	dB		3	4.5	
Insertion Loss 506~536MHz IL(-30°C to +60°C )	dB		4.2	6	
Amplitude Ripple 506~536MHz	dB		1.3	4	
Absolute Delay 506~536MHz	ns		45	85	
Bandwidth -4.5dB	MHz	30	36		
<b>Attenuation</b> (Reference level from 0dB)					
10~480 MHz	dB	30	34		
480~486 MHz	dB	15	21		
552~605 MHz	dB	10	18		
605~830 MHz	dB	30	43		
830~1000 MHz	dB	25	38		
Temperature Coefficient of Frequency	ppm/°C		-75 typ		

## C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D. OUTLINE DRAWING:**

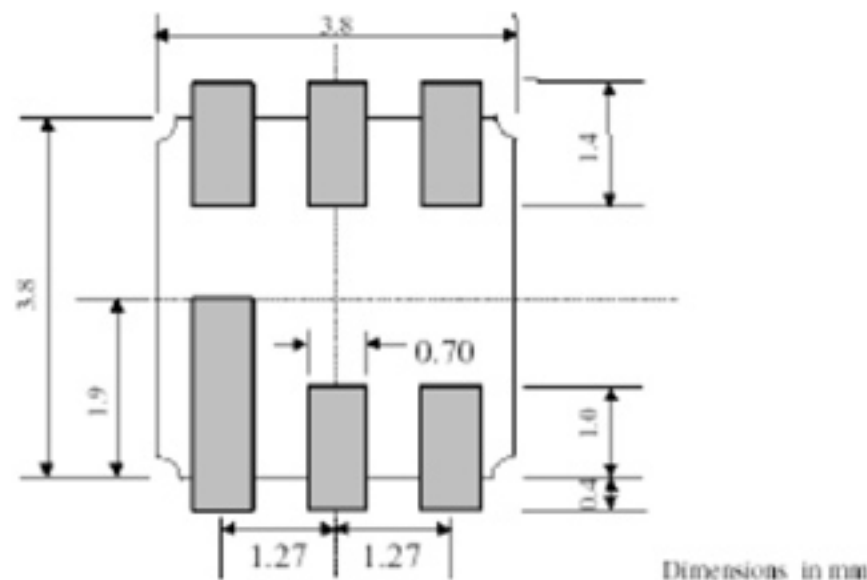


- B : Input
- E: Output
- A,C,D,F Ground
- △:Year Code
- : Date Code(Follow the table provided by planner each year.)
- Unit mm

△ Product Year Code

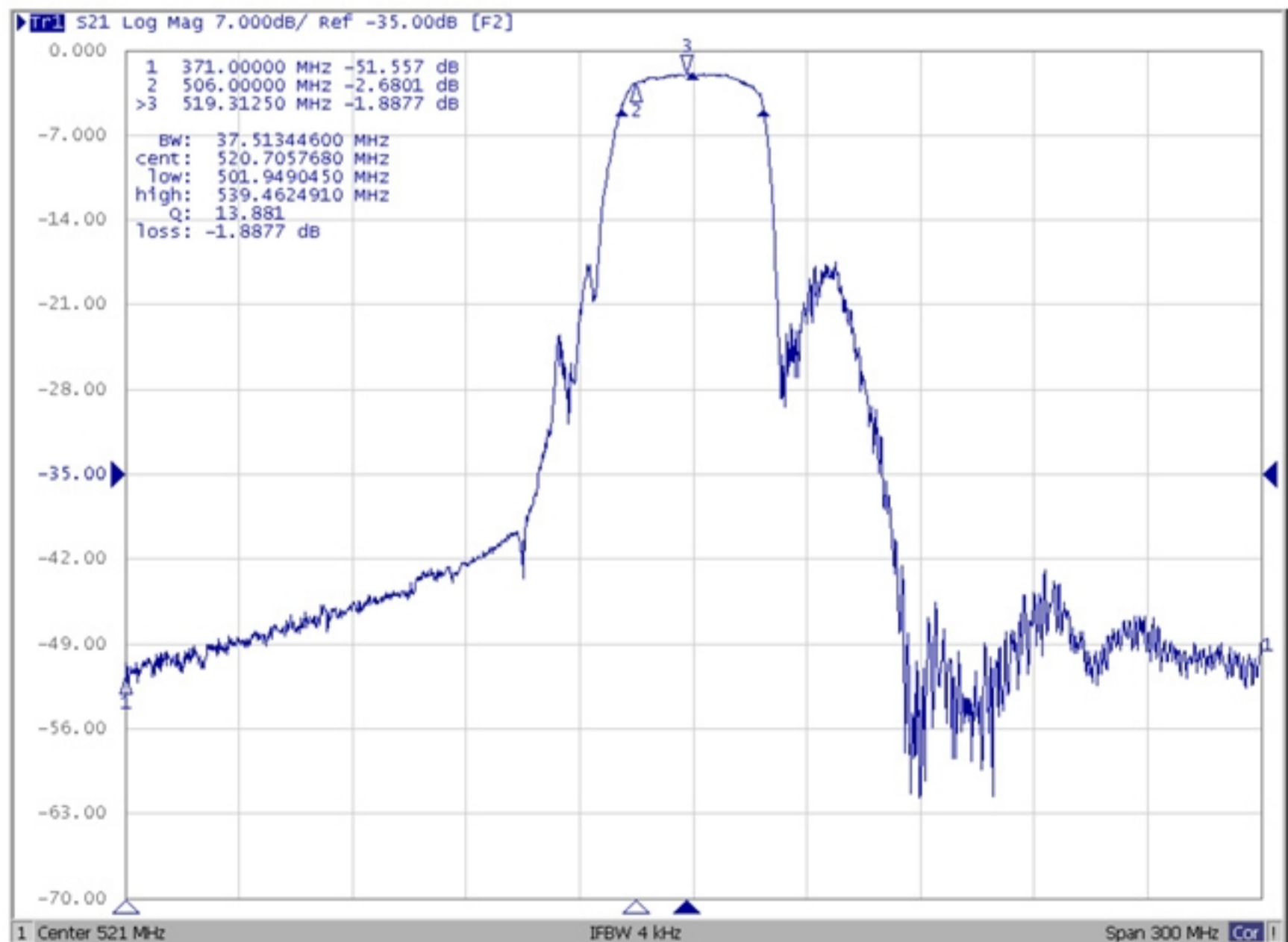
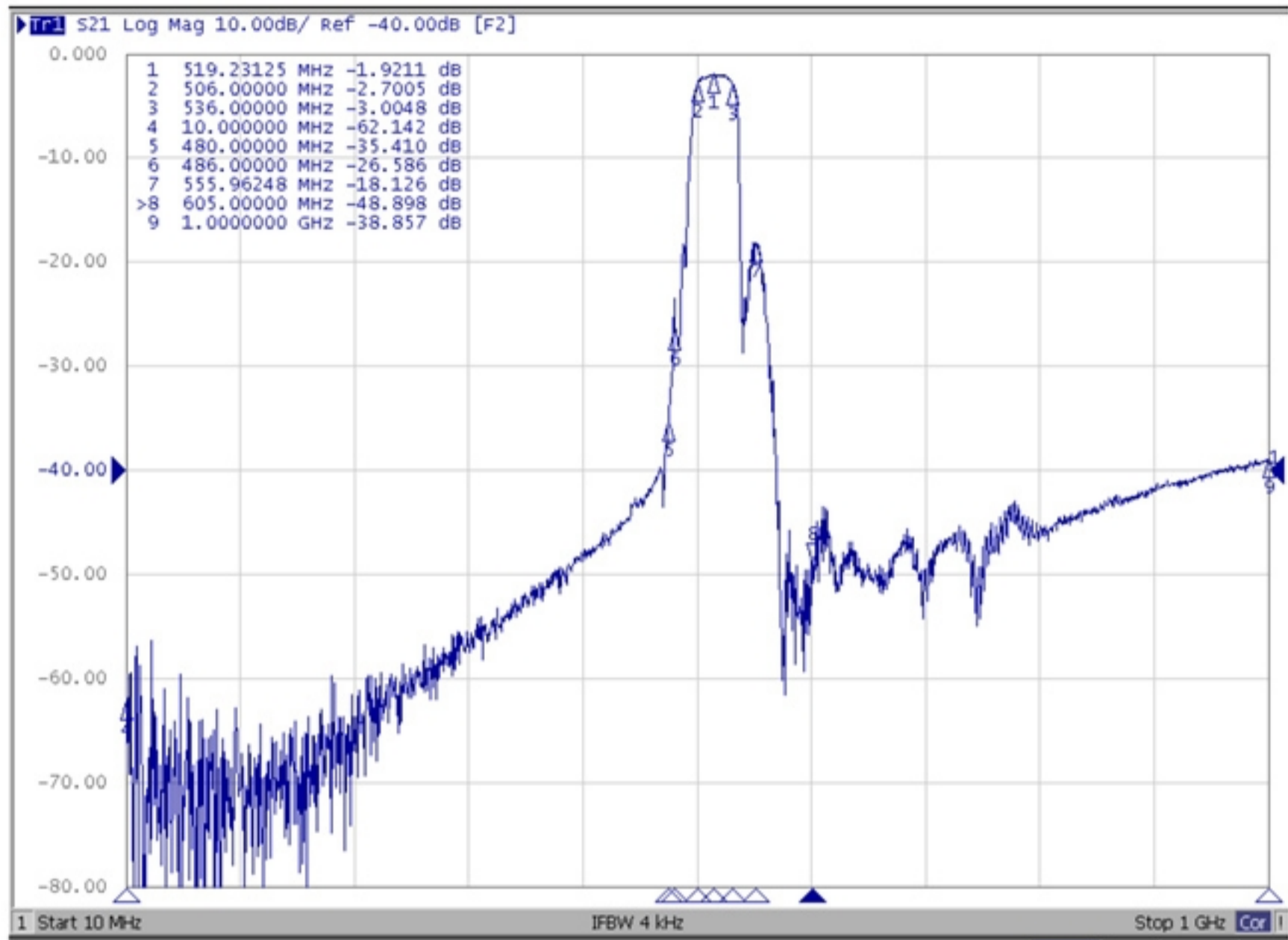
Year	2017	2018
	2019	2020
	2021	2022
	2023	2024
Product Code	A	a

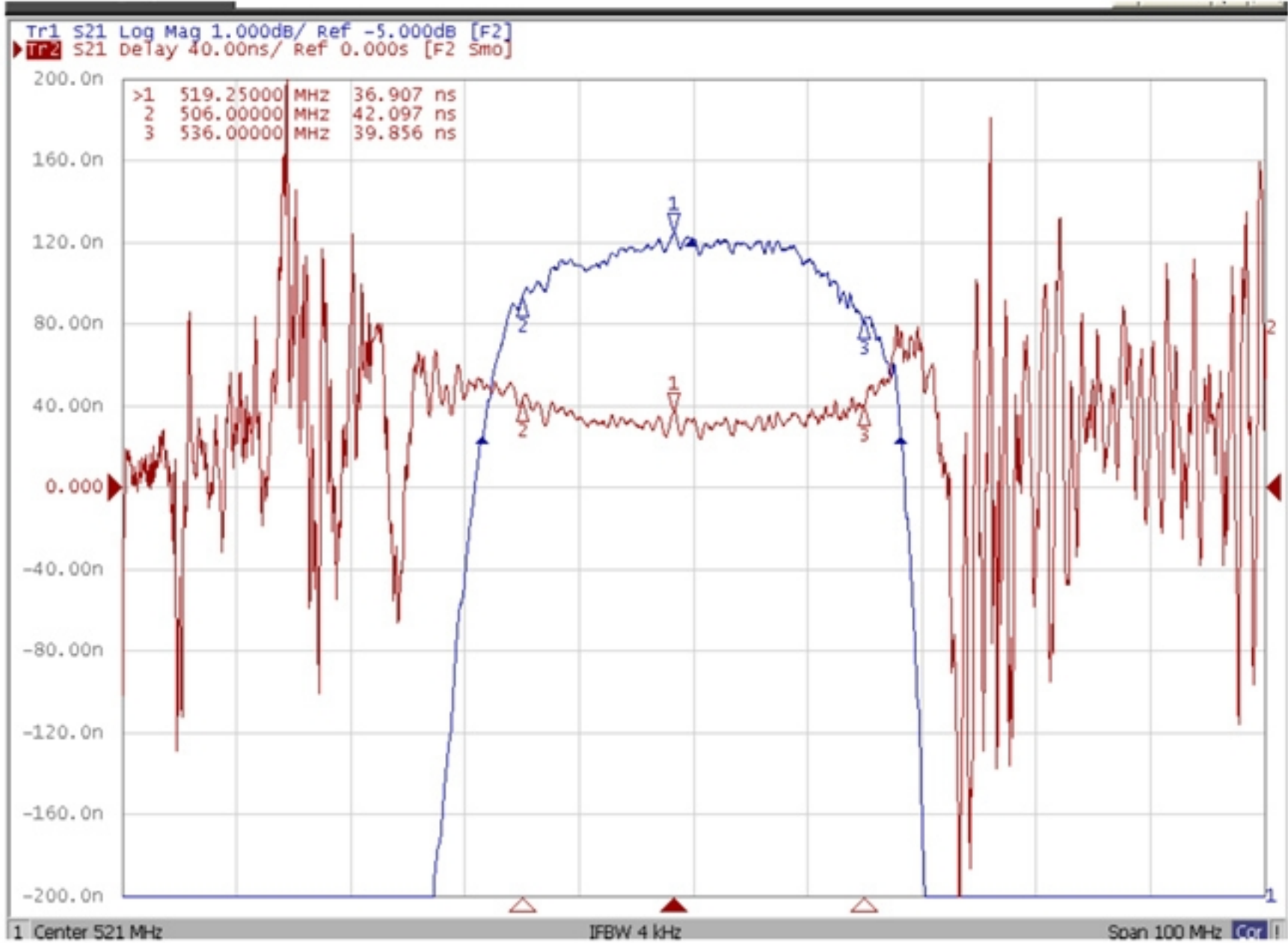
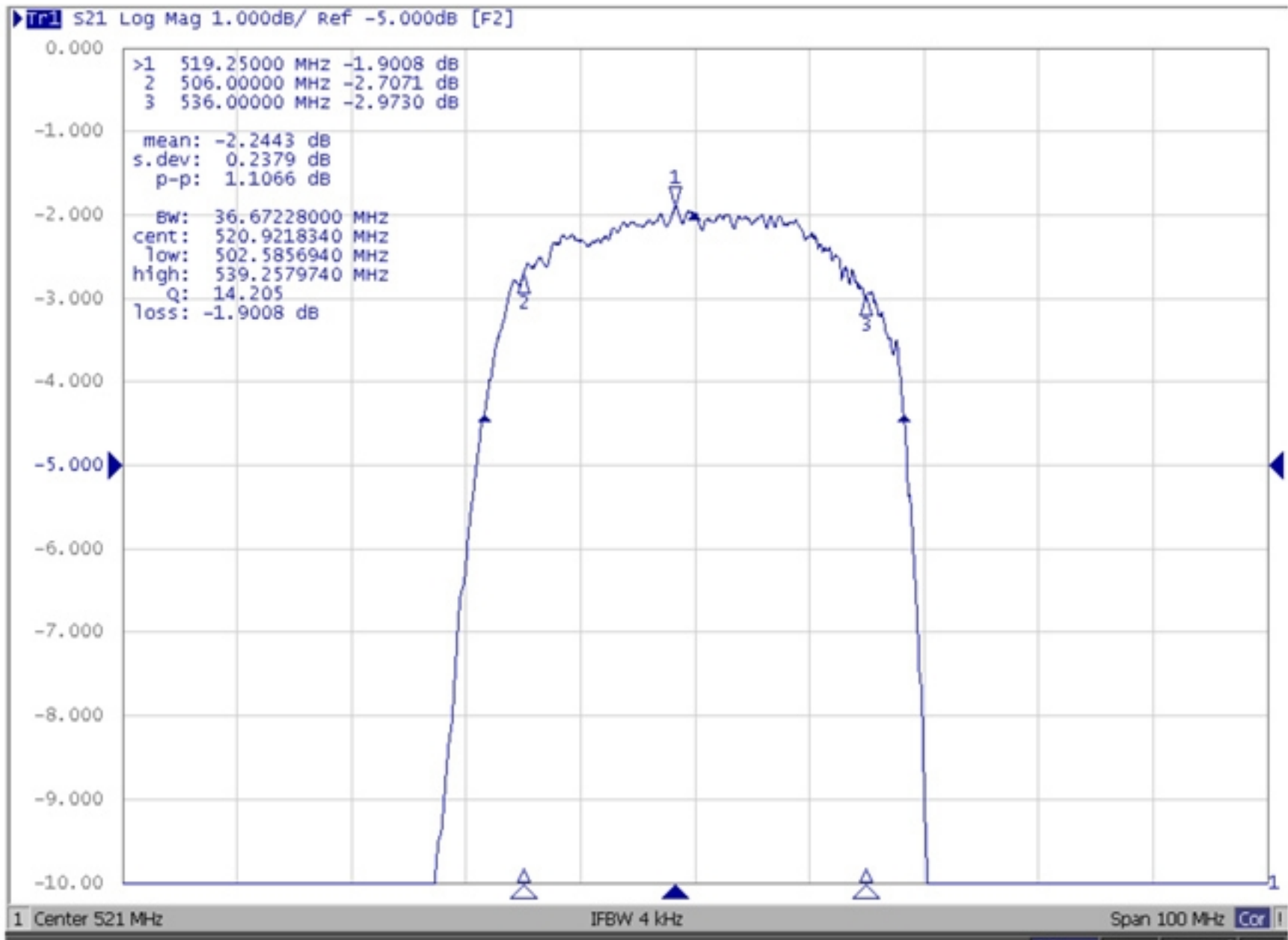
**E. PCB Footprint:**



Dimensions in mm

## F. Frequency Characteristics:

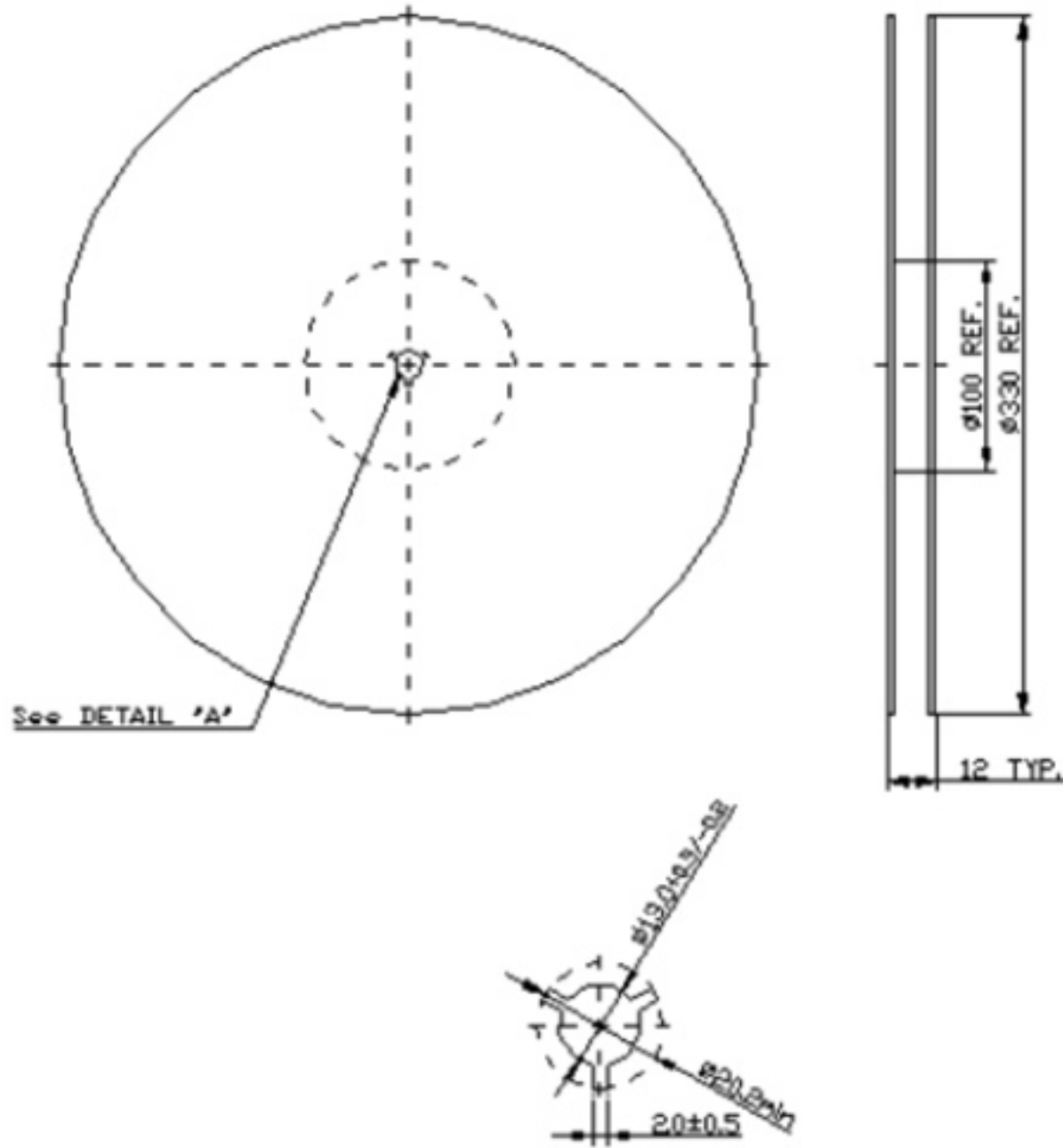




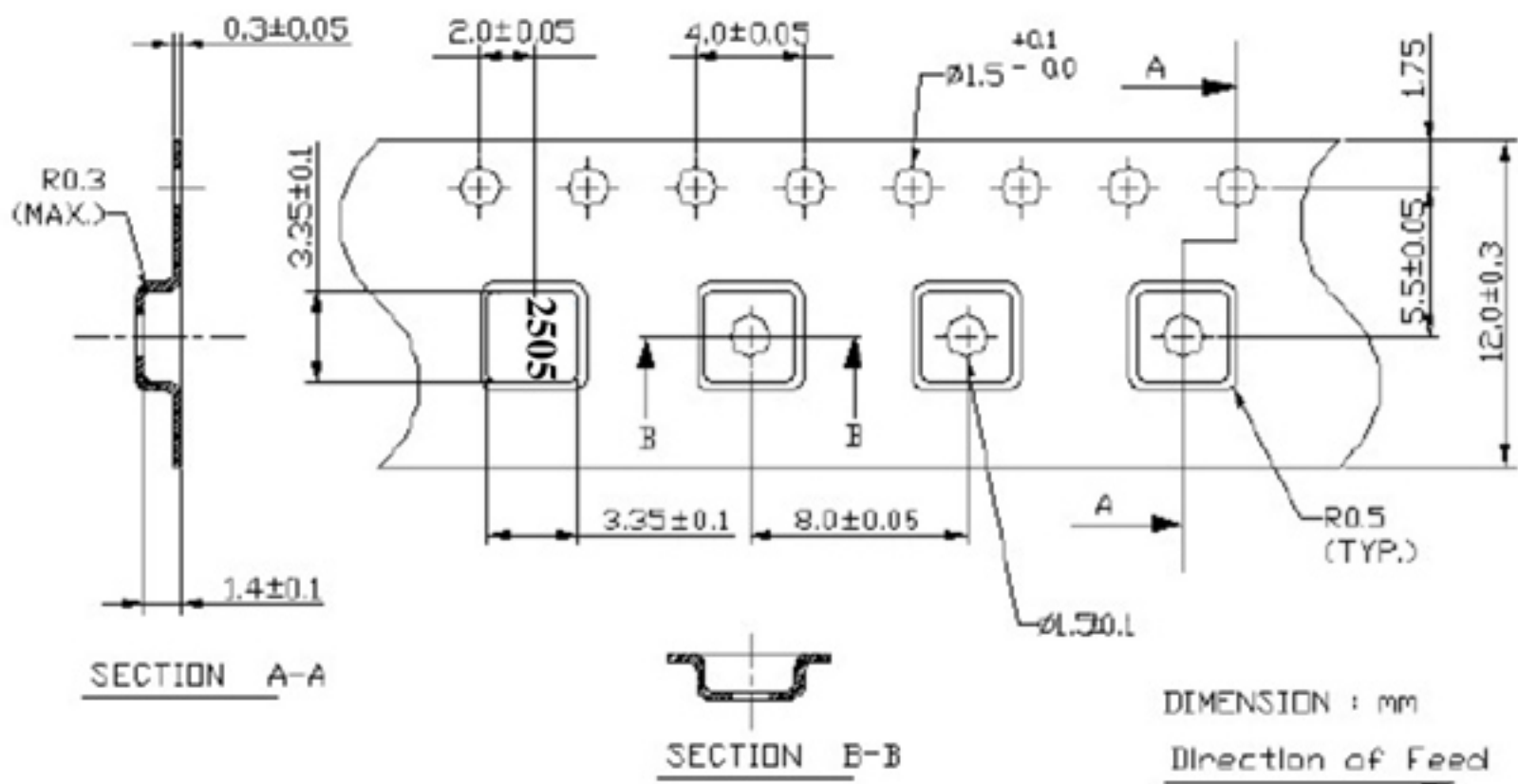
**G. PACKING: (Ref. WI-75M03)**

**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 60~90 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 50~80 seconds and at  $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$  peak (20~40sec).
4. Time: 2 times.

