

**SAW Filter 499.25 MHz SMD 5X5 mm**  
**Part No: MA09431**

**Model: TA0524A**  
**REV NO: 1**

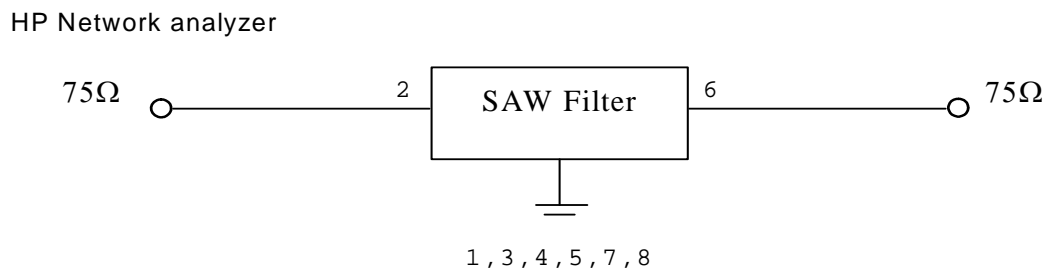
**A. MAXIMUM RATING:**

1. Input Power Level: 10 dBm
2. DC voltage: 5 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
<b>Center frequency</b> Fo	MHz	-	499.25	-
<b>Insertion loss at Fo</b> IL	dB	-	2.2	5
<b>Amplitude Ripple</b> (Peak to adjacent valley, 499.25 +/- 0.5 MHz)	dB	-	0.3	0.75
<b>Attenuation</b> (Reference level from 0 dB)				
Fo ± 6 MHz	dB	8	18	-
Fo ± 12 MHz	dB	28	38	-
Fo ± 18 MHz	dB	45	50	-
Fo ± 50 MHz	dB	40	52	-
50 ~ 300 MHz	dB	35	55	-
750 ~ 1000 MHz	dB	30	36	-
<b>Input/Output Return Loss @ 499.25 MHz</b>	dB	9	15	-
<b>Source impedance</b> Zs	Ω	-	75	-
<b>Load impedance</b> ZL	Ω	-	75	-
<b>Temperature Coefficient</b>	ppm/°C	-	-36	-

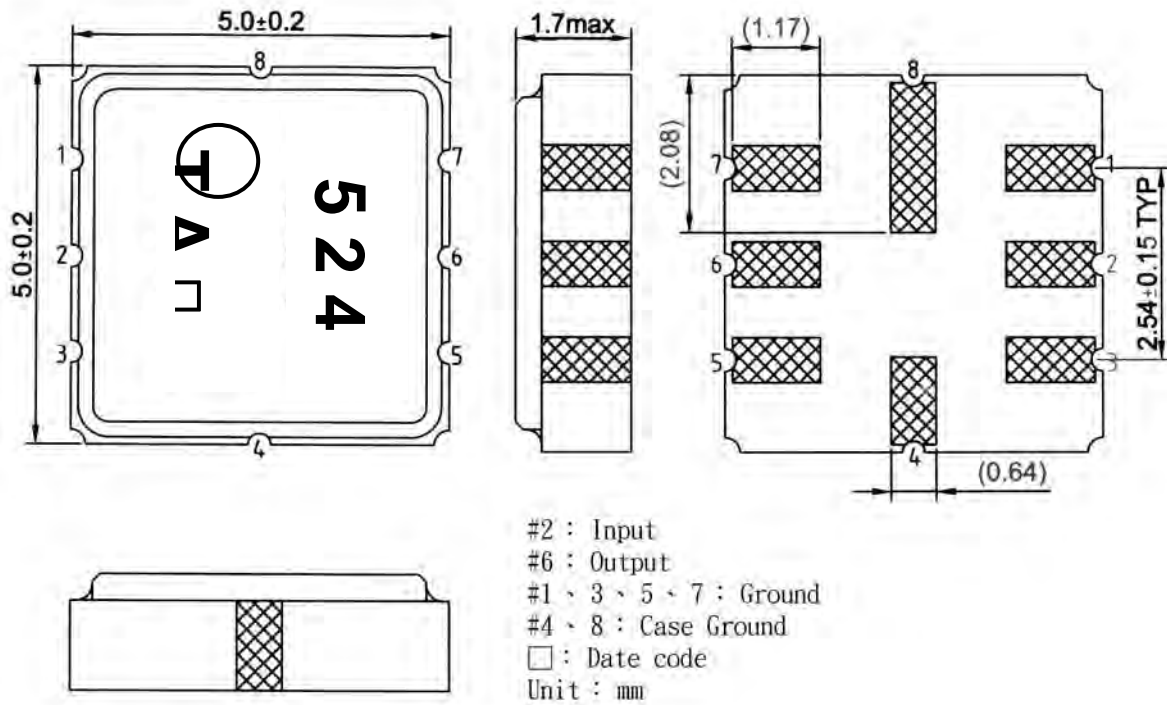
**C. MEASUREMENT CIRCUIT:**



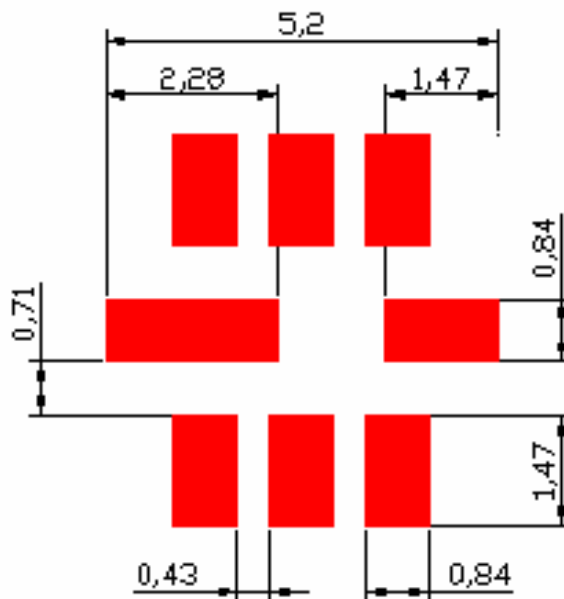
**SAW Filter 499.25 MHz SMD 5X5 mm**  
**Part No: MA09431**

**Model: TA0524A**  
**REV NO: 1**

**D. OUTLINE DRAWING:**



**E. PCB FOOTPRINT:**

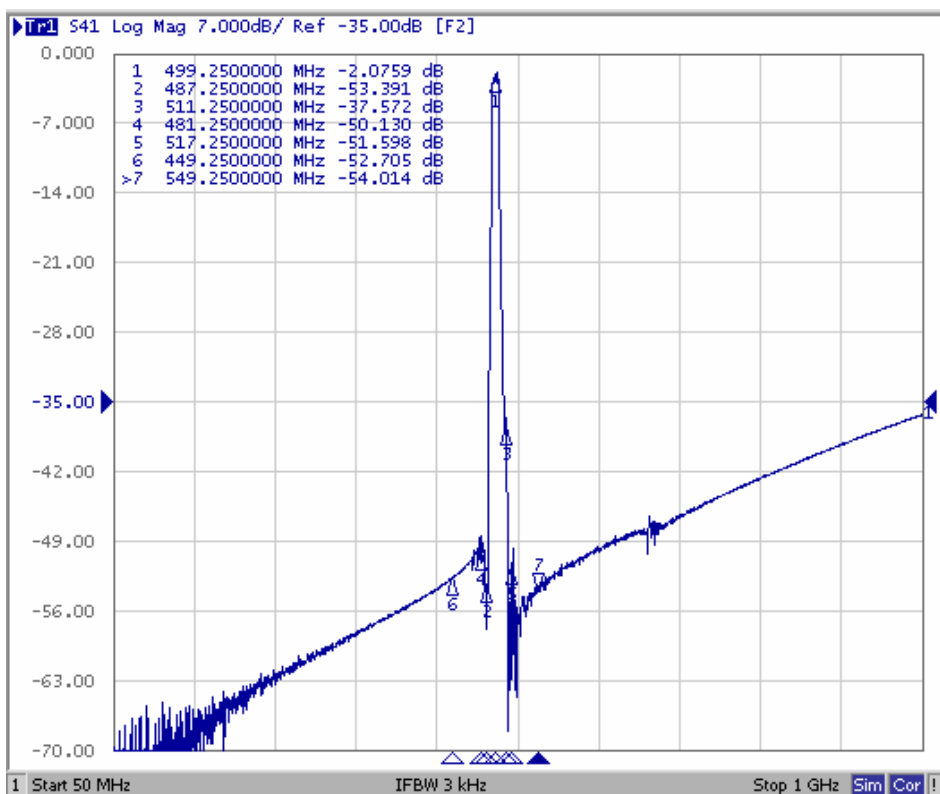
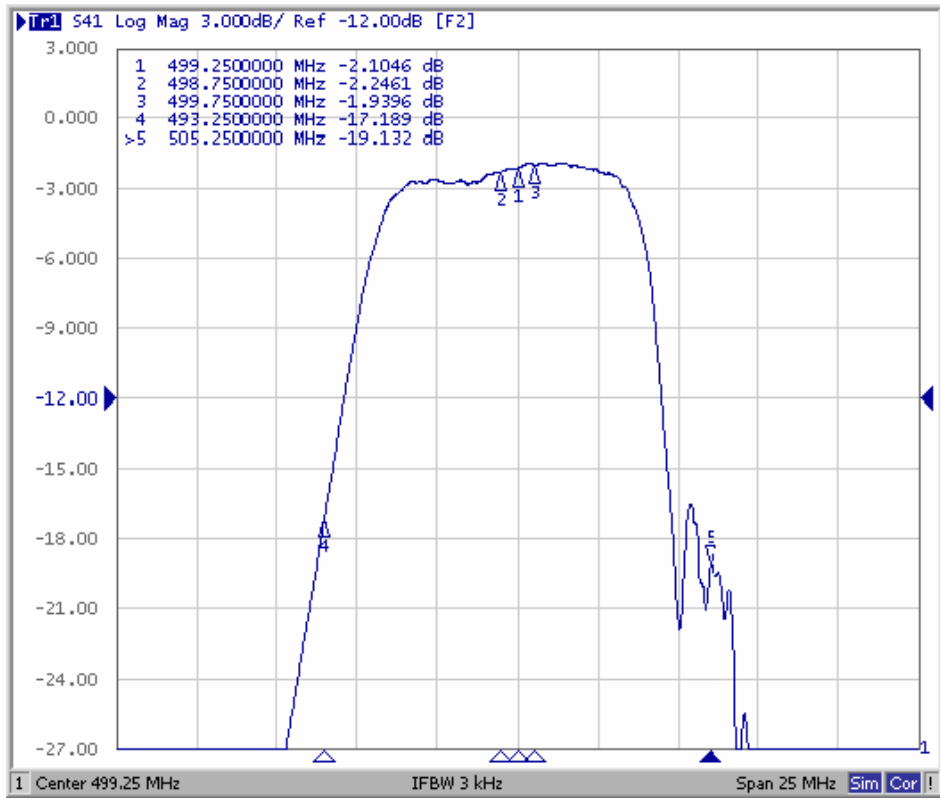


**SAW Filter 499.25 MHz SMD 5X5 mm**  
**Part No: MA09431**

**Model: TA0524A**  
**REV NO: 1**

**F. FREQUENCY CHARACTERISTICS:**

**1. TRANSFER FUNCTION**

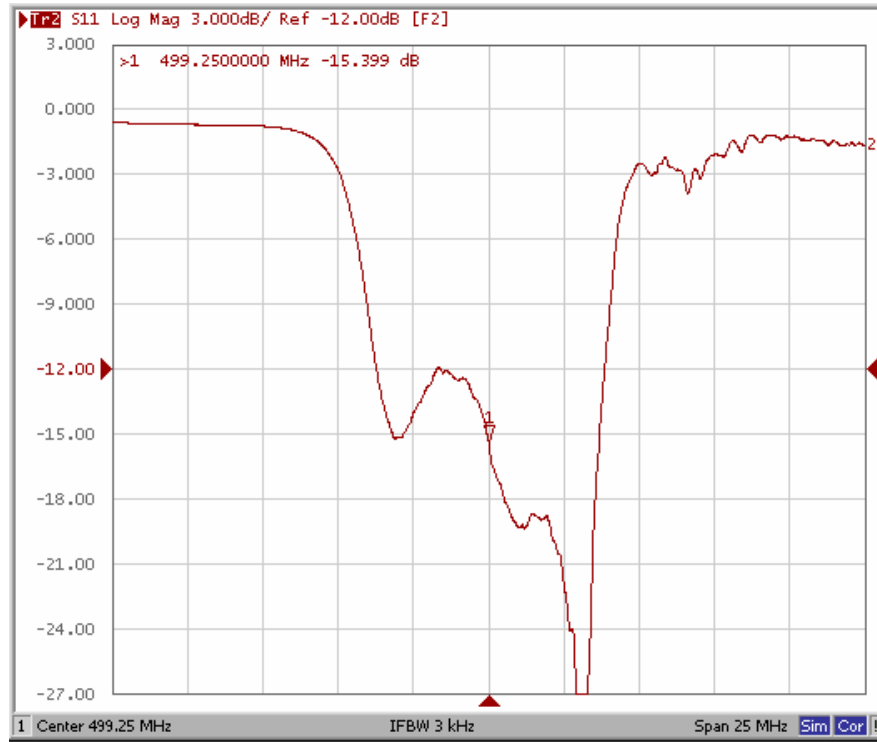


**SAW Filter 499.25 MHz SMD 5X5 mm**  
**Part No: MA09431**

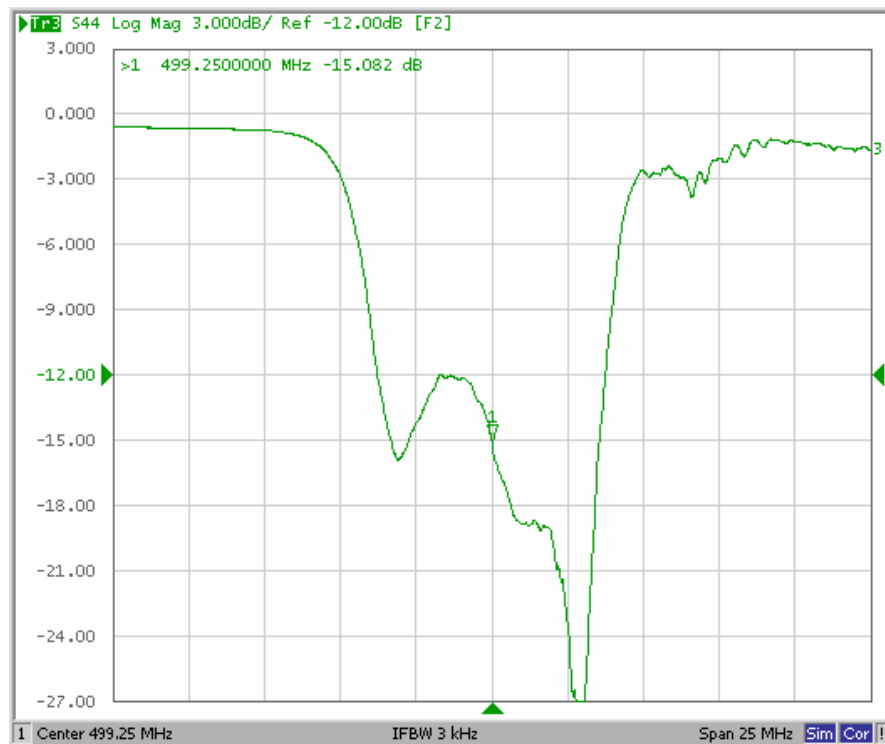
**Model: TA0524A**  
**REV NO: 1**

## 2. REFLECTIONS FUNCTIONS

### S11



### S22

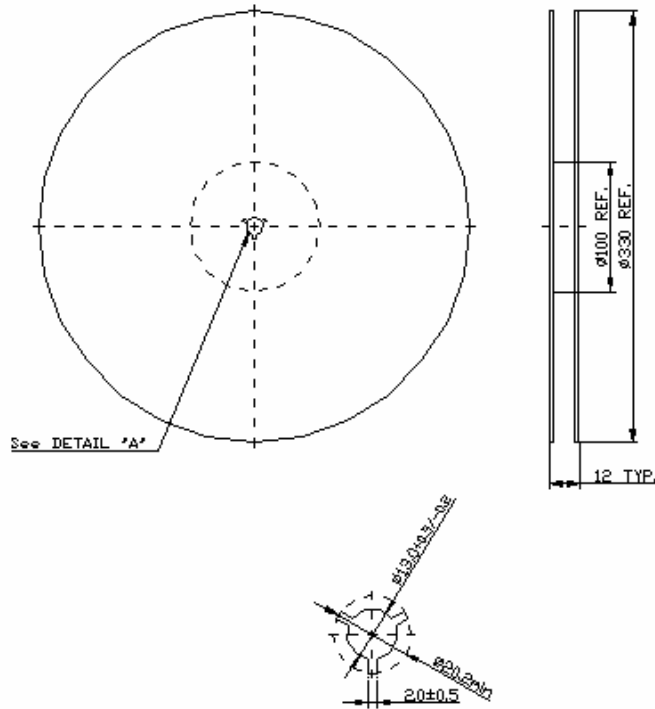


**SAW Filter 499.25 MHz SMD 5X5 mm**  
**Part No: MA09431**

**Model: TA0524A**  
**REV NO: 1**

**G. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**

