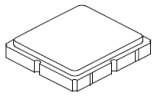
RFMi
A BRAND OF AKOUSTIS

RoHS compliant

# SF2534E

## 619 MHz SAW Filter



SM3030-8

- ***Complies with Directive per ANSI/EIA-481***
- ***Moisture Sensitivity Level: 1***

**Absolute Maximum Ratings**

| Rating | Value | Units |
|---|---|---|
| Input Power Level (CW for 70000hrs at 25°C) | 20 | dBm |
| DC Voltage | 5 | V |
| Operable Temperature Range | -40 to +105 | °C |
| Specification Temperature Range | -20 to +70 | °C |
| Storage Temperature Range | -40 to +105 | °C |

## Electrical Characteristics

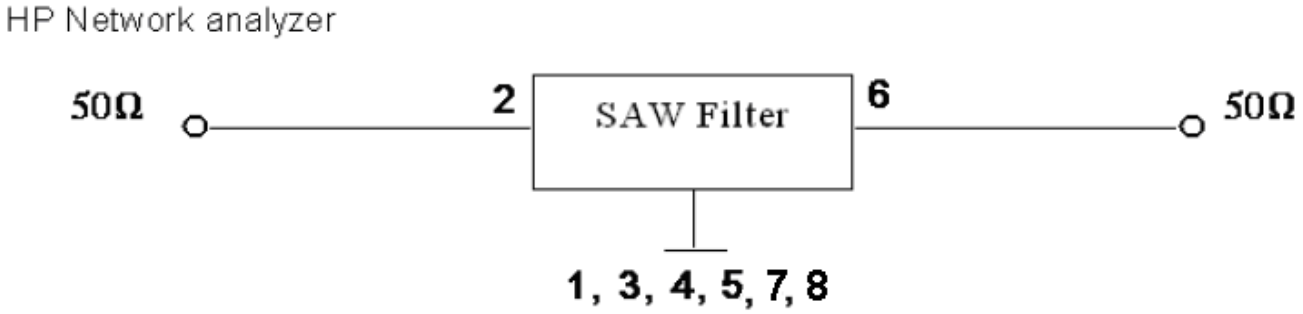
| Item | | Unit | min | type | Max |
|---|---|---|---|---|---|
| **Center Frequency** | **Fc** | MHz | | 619 | |
| **Insertion Loss** 608~630MHz **(25°C)** | | dB | | 2.6 | 2.85 |
| **Insertion Loss** 608~630MHz **(-20°C to +70°C)** | | dB | | 2.6 | 3 |
| **Return Loss** 608~630MHz **(0°C to +50°C)** | | dB | 10 | 14 | |
| **Pass band** 608~630MHz | | MHz | 22 | 41 | |
| **Attenuation** (Reference level from 0dB) | | | | | |
| 10~**410** | MHz | dB | **50** | 55 | |
| **410**~520 | MHz | dB | 35 | 47 | |
| 700~980 | MHz | dB | 38 | 43 | |
| 980~1200 | MHz | dB | 32 | **38** | |
| **Temperature Coefficient of Frequency** | | ppm/℃ | -75 typ | | |

**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

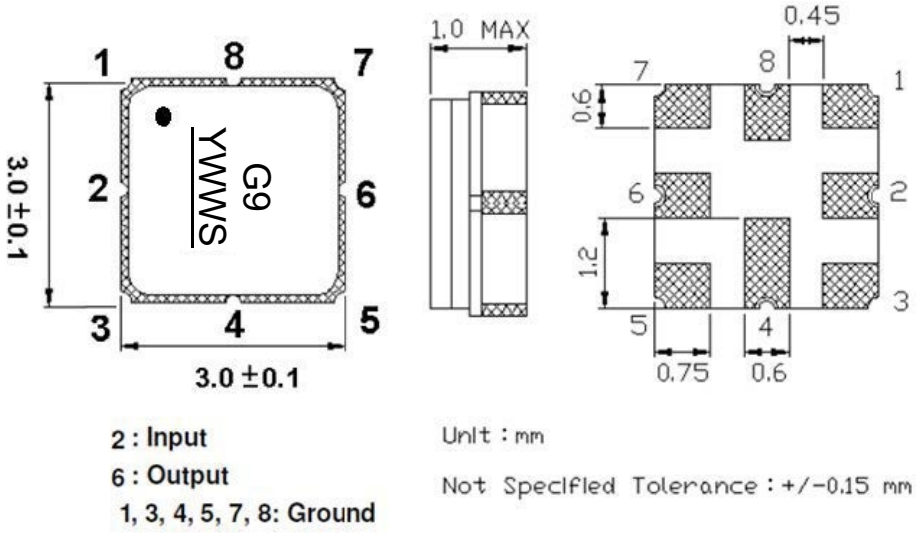
**NOTES:**

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

## Measurement Circuit

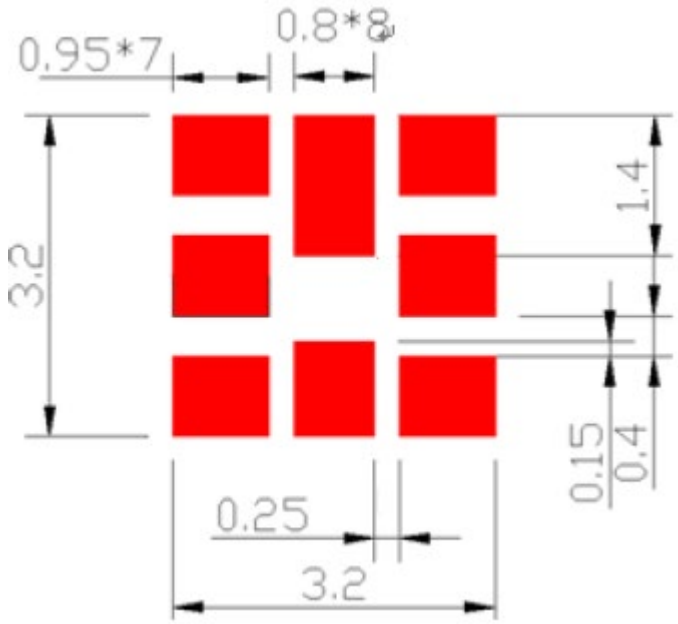



## Outline Drawing

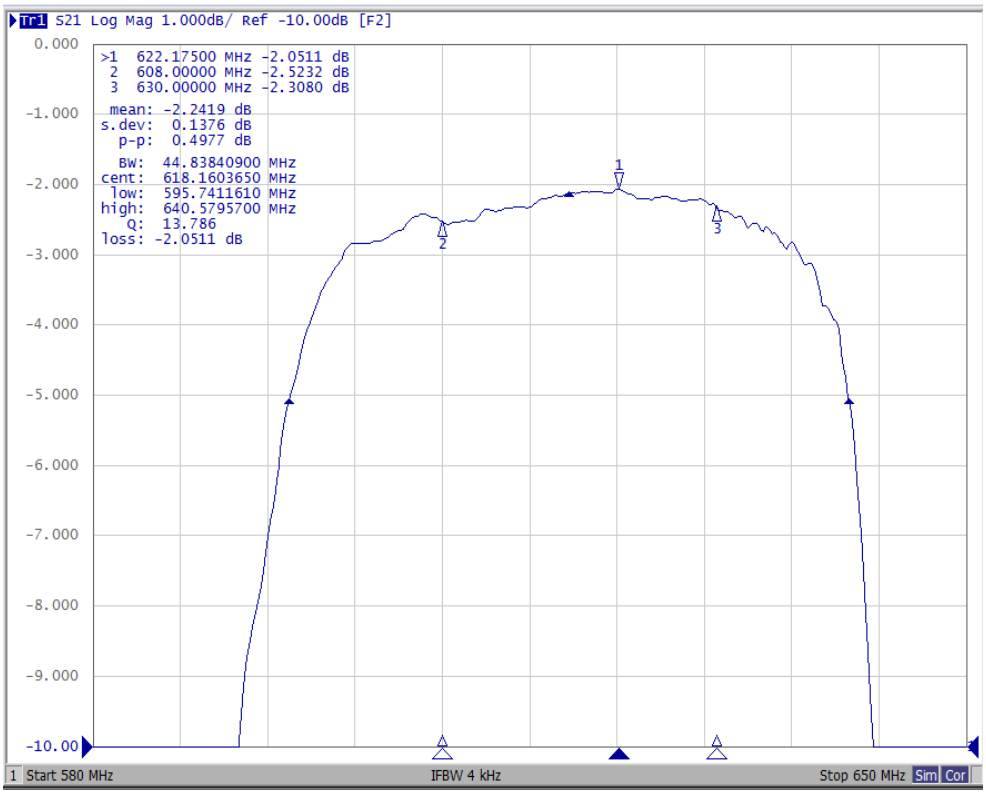


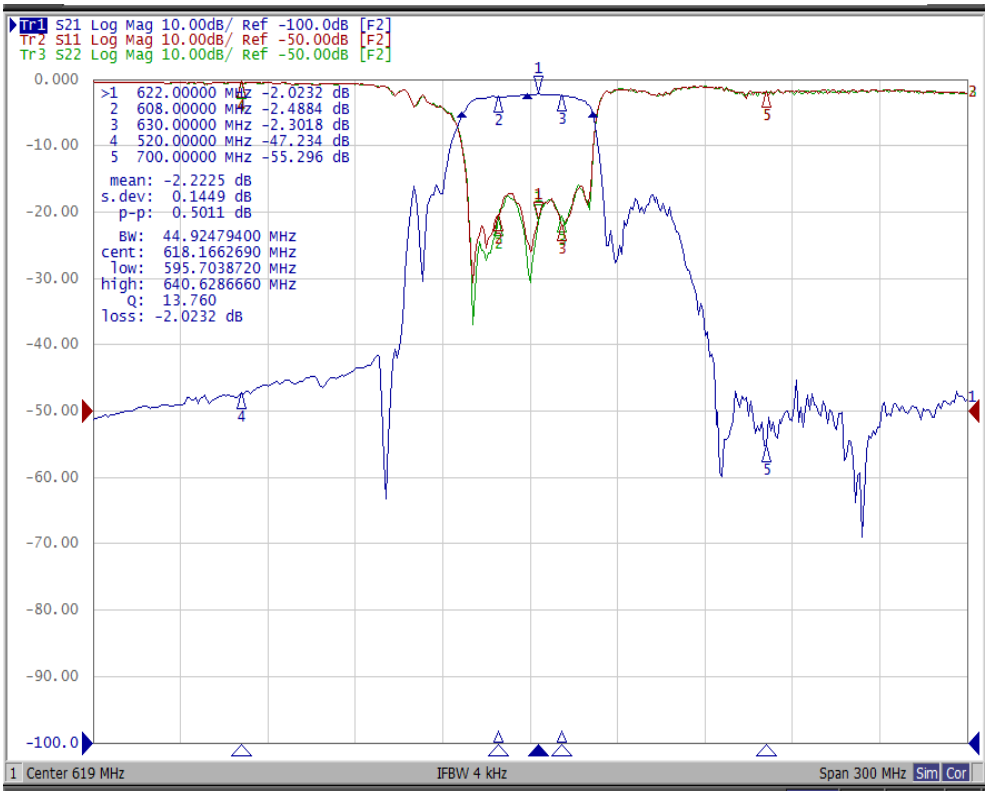

**Marking**:
Y = Year, WW= Week, S = Shift

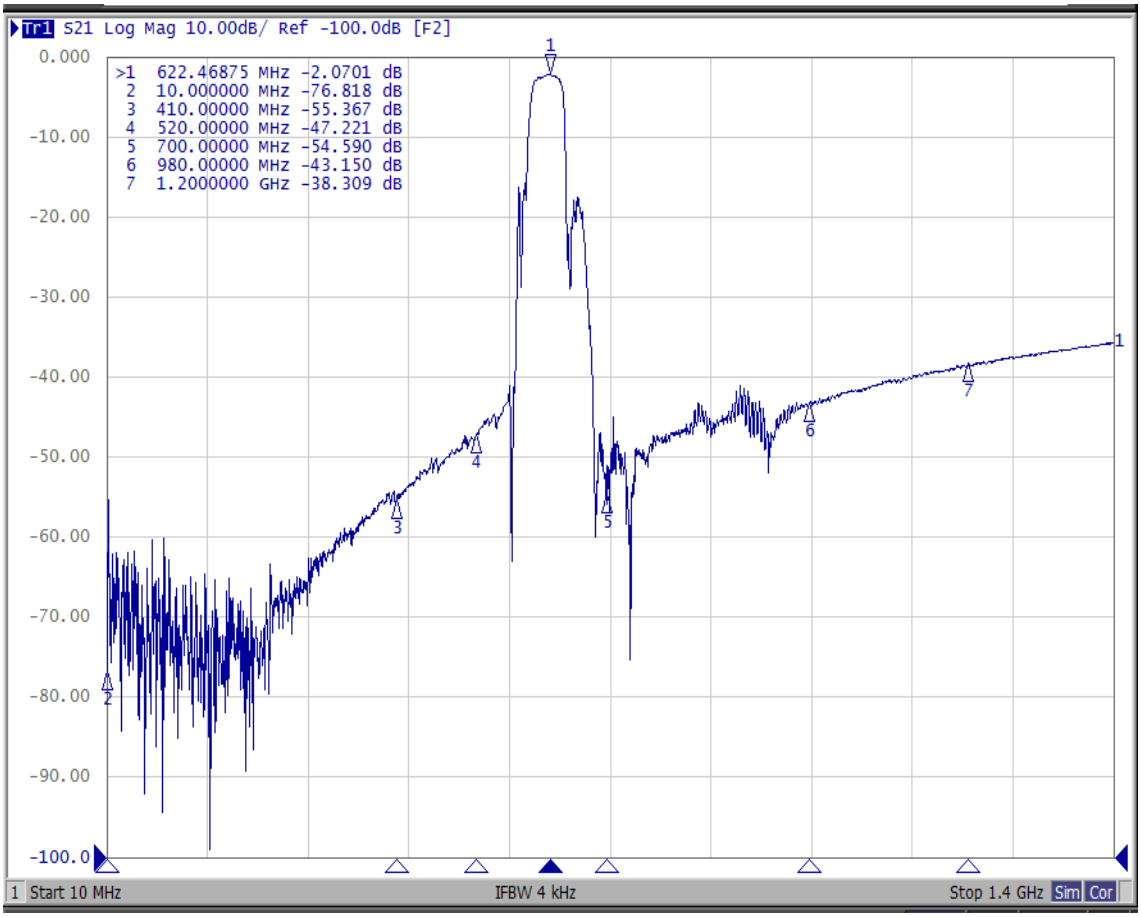
## PCB Footprint



## Frequency Characteristics



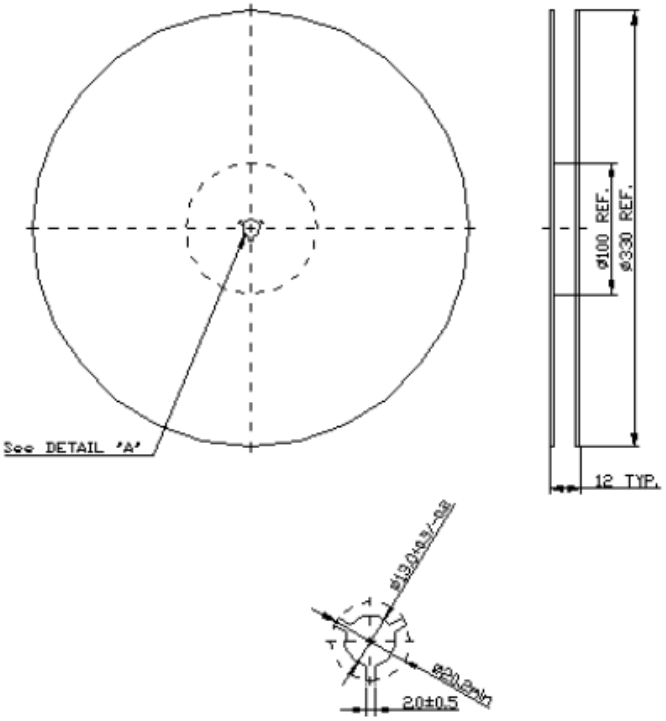

Tr1 S21 Log Mag 10.00dB/ Ref -100.0dB [F2]
>1 622.46875 MHz -2.0701 dB
2 10.000000 MHz -76.818 dB
3 410.00000 MHz -55.367 dB
4 520.00000 MHz -47.221 dB
5 700.00000 MHz -54.590 dB
6 980.00000 MHz -43.150 dB
7 1.2000000 GHz -38.309 dB
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.0
1 Start 10 MHz
IFBW 4 kHz
Stop 1.4 GHz
Sim
Cor

# Packing

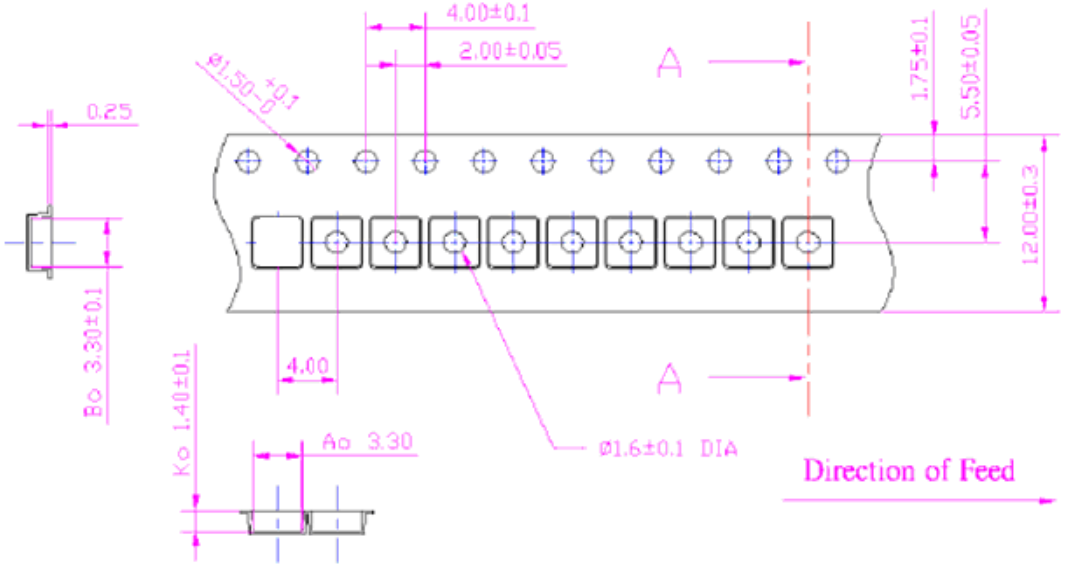
## Reel Dimension

**Tape and Reel Standard per ANSI/EIA-481**

Reel Count:
7" = 500
13" = 3000




## Tape Dimension



## Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.