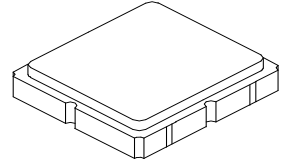


**SF2647E**

**793 MHz  
SAW Filter**



SM3030-6

**MAXIMUM RATING:**

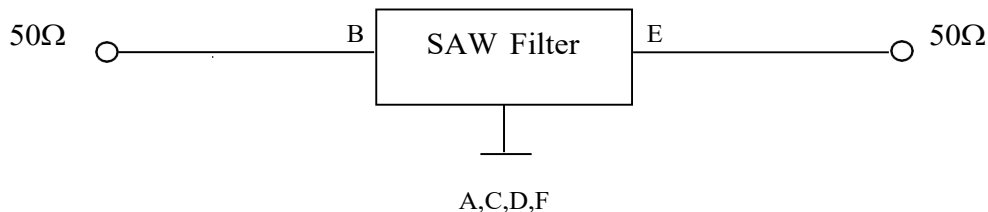
- Input Power Level: +25 dBm
- DC Voltage : 3V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

**ELECTRICAL CHARACTERISTICS:**

| Item   | Unit   | Min. | Typ. | Max. |
|--|--------|------|------|------|
| <b>Center Frequency</b> <b>Fc</b>              | MHz    | -    | 793  | -    |
| <b>Insertion loss</b> (788~798 MHz) <b>IL</b>  | dB     | -    | 1.8  | 2.5  |
| <b>Amplitude Ripple</b> (788~798 MHz)          | dB     | -    | 0.7  | 1.5  |
| <b>Return Loss</b> (788~798 MHz)               | dB     | 10   | 13   | -    |
| <b>Group Delay at Fc</b>                       | ns     | -    | 39   | 60   |
| <b>Group Delay Variation</b> (788~798 MHz)     | ns     | -    | 18   | 60   |
| <b>Attenuation</b> (Reference level from 0 dB) |        |      |      |      |
| 0 ~ 445 MHz                                    | dB     | 36   | 41   | -    |
| 445 ~ 465 MHz                                  | dB     | 36   | 41   | -    |
| 465 ~ 700 MHz                                  | dB     | 35   | 40   | -    |
| 758 ~ 768 MHz                                  | dB     | 35   | 45   | -    |
| 848 ~ 890 MHz                                  | dB     | 35   | 44   | -    |
| 1000 ~ 2000 MHz                                | dB     | 30   | 41   | -    |
| <b>Temperature Coefficient of Frequency</b>    | Ppm/°C | -    | -36  | -    |

**MEASUREMENT CIRCUIT:**

HP Network analyzer

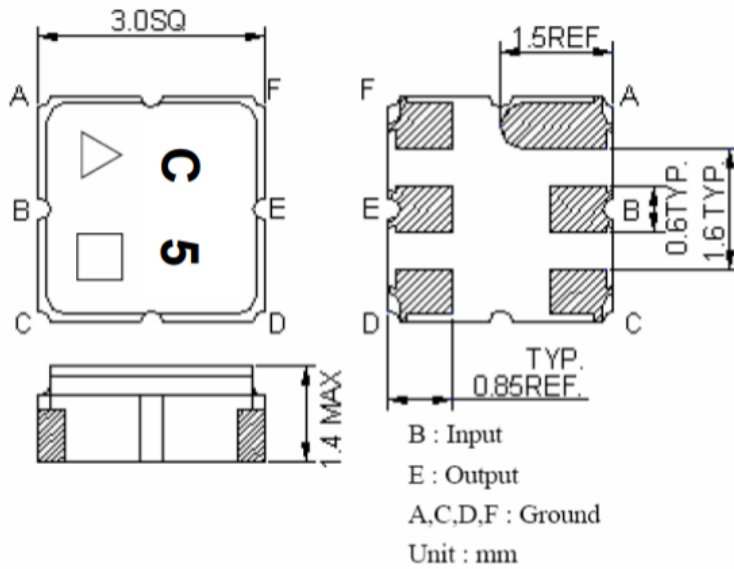




**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

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.

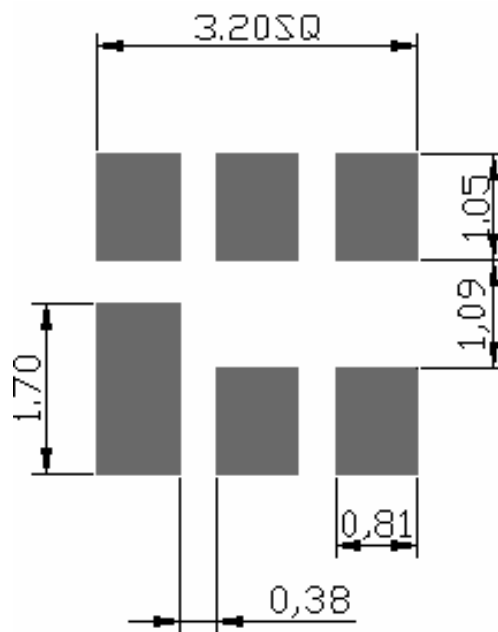
### OUTLINE DRAWING:



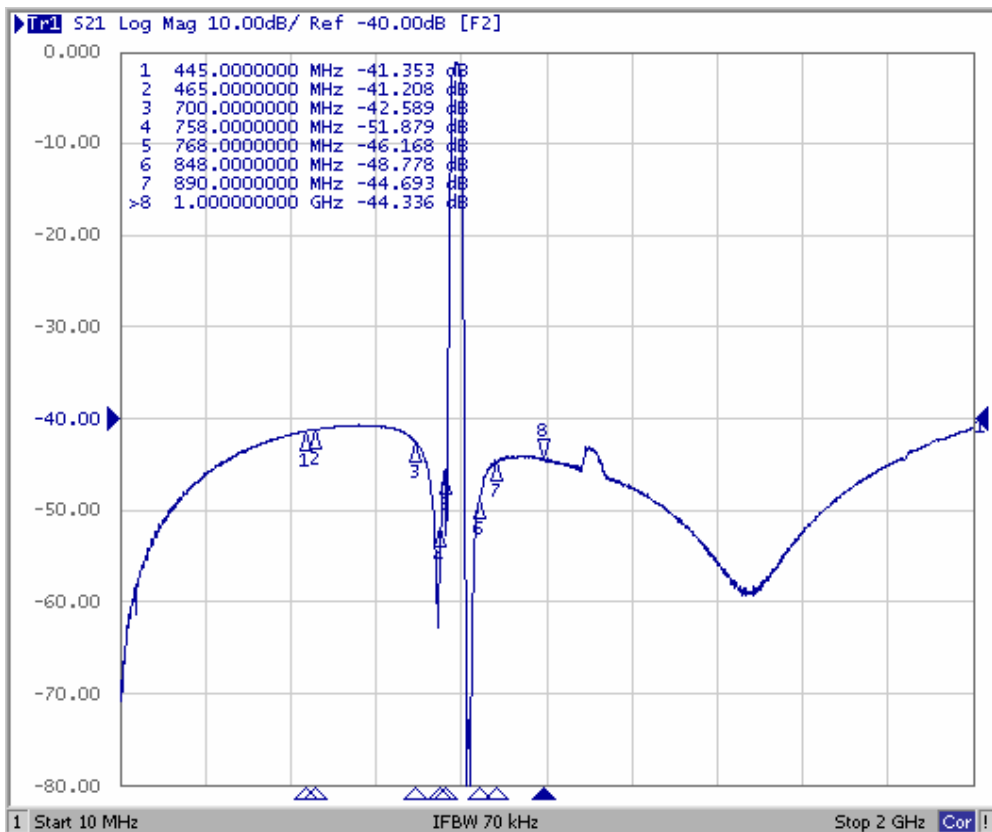
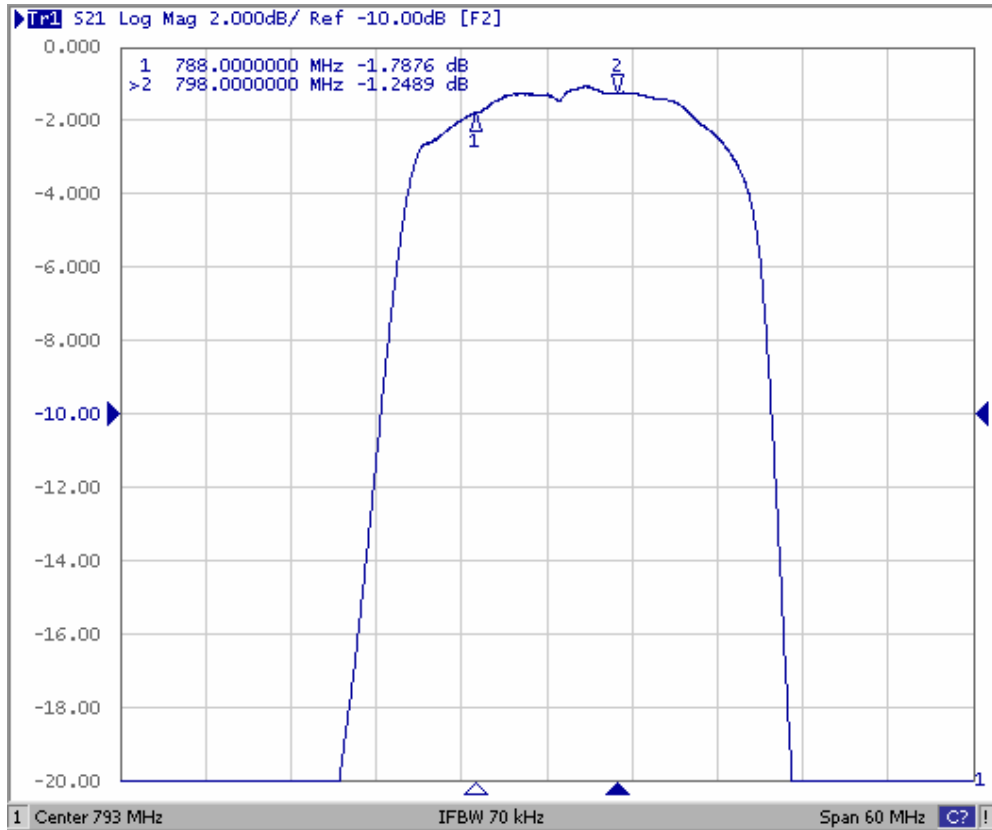
△: Year Code(2010->0,...,2019->9)

□: Date Code(W01->A, W02->B,..., W27->a, W52->z)

### PCB Footprint:

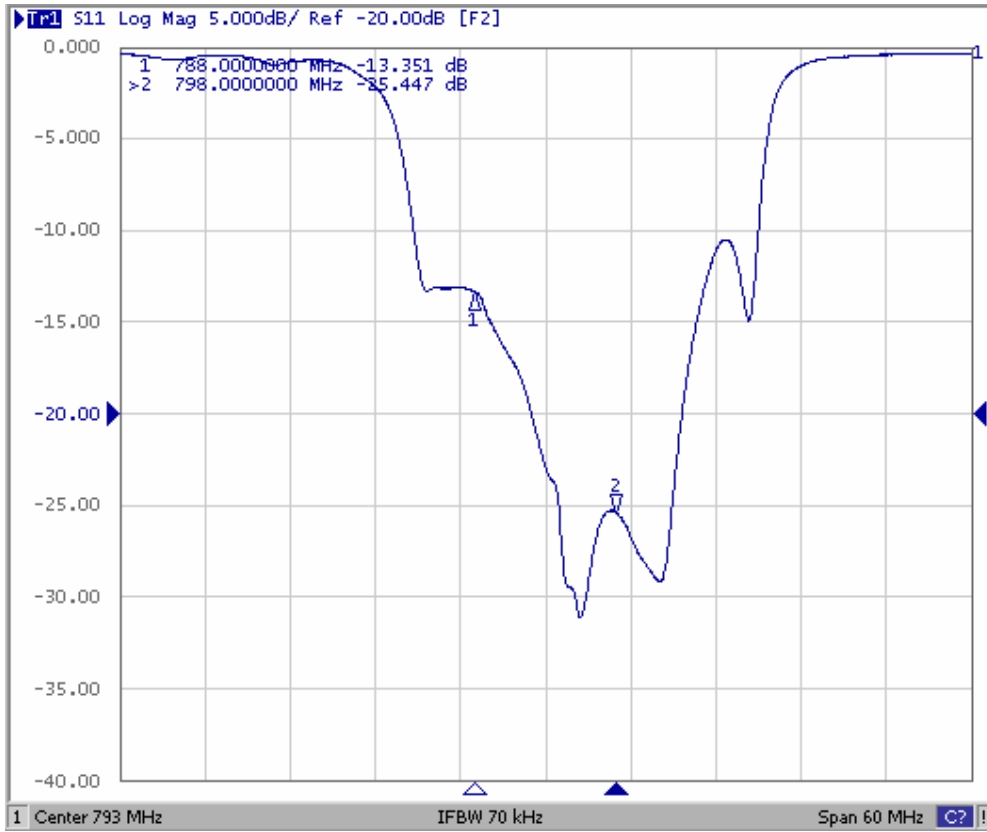


# Frequency Characteristics: (typical performance at 25°C)

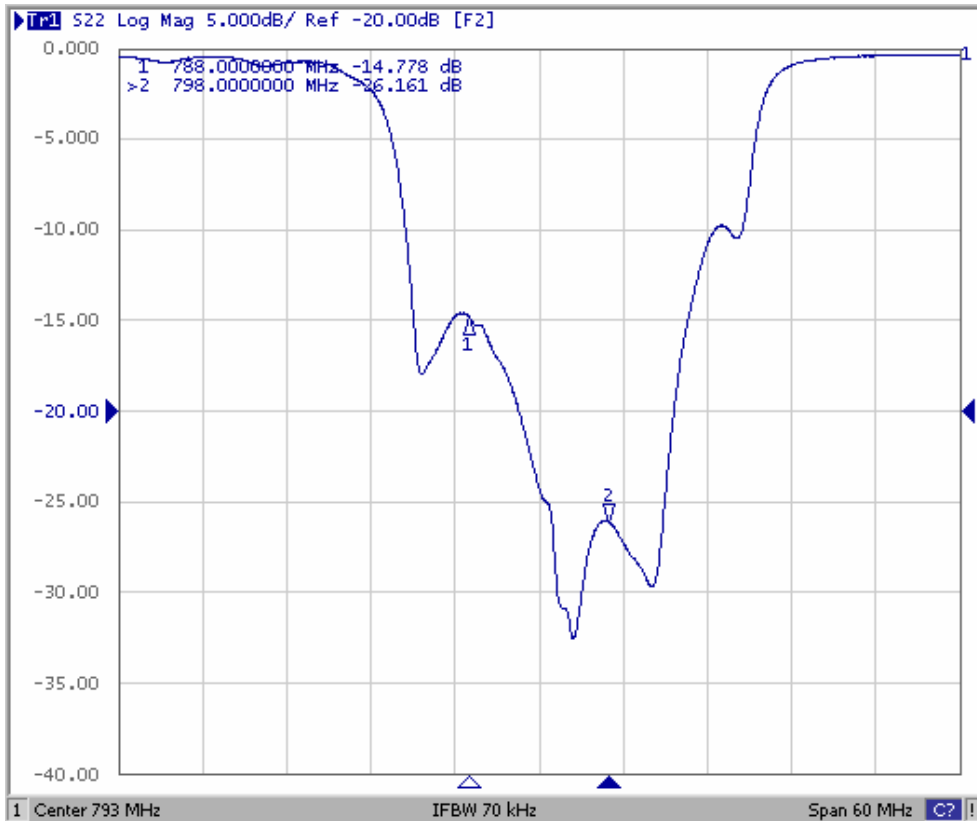


# Reflection Functions: ( typical performance at 25°C)

## S11



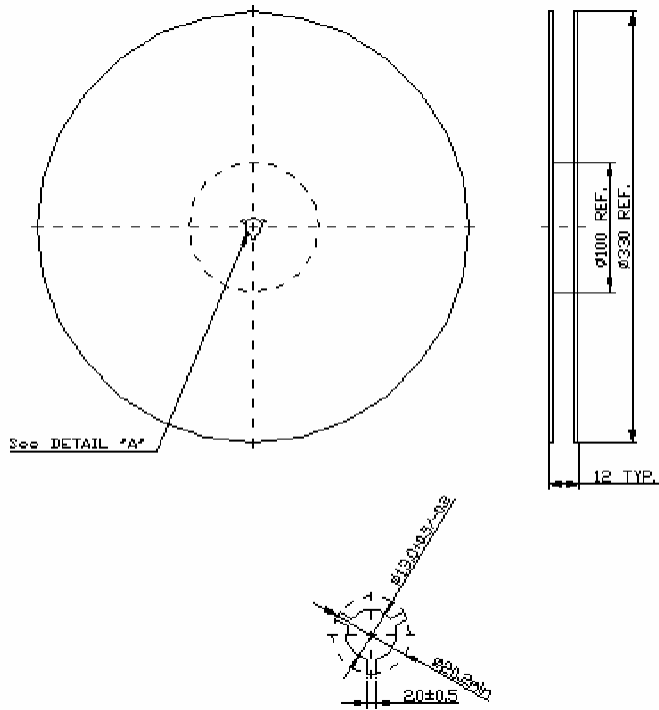
## S22



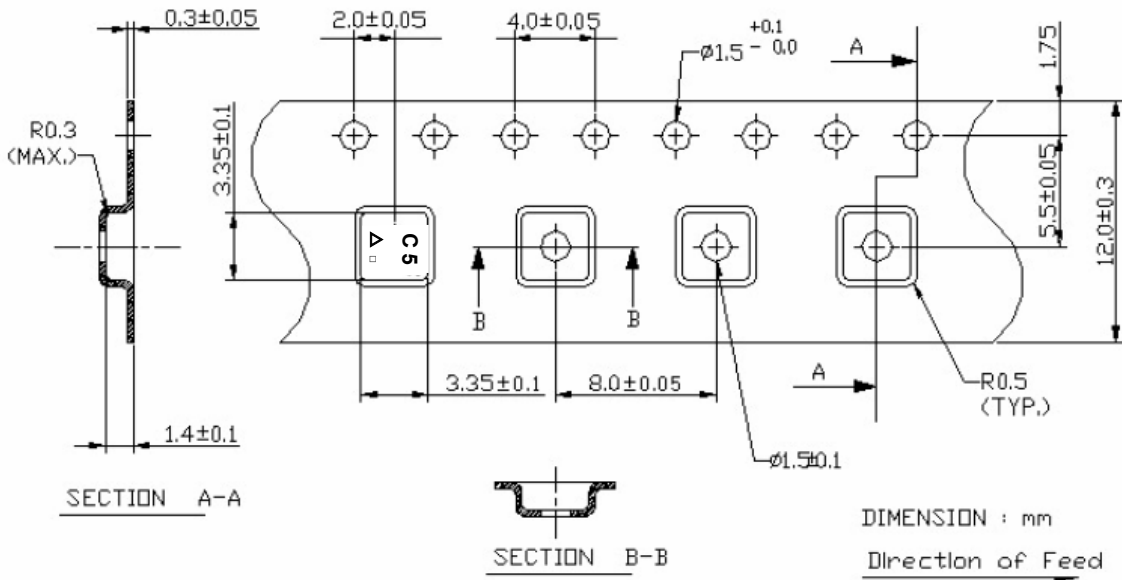
**PACKING:**

**1. REEL DIMENSION**

(Reel Count : 7"=500 ; 13"=3000 )



**2. TAPE DIMENSION**



## 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 250±10°C peak (max. 10sec).
4. Time : 2 times.

