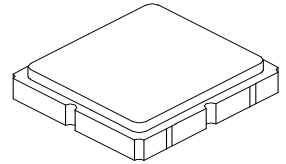


SF2647E

**793 MHz
SAW Filter**



SM3030-6

MAXIMUM RATING:

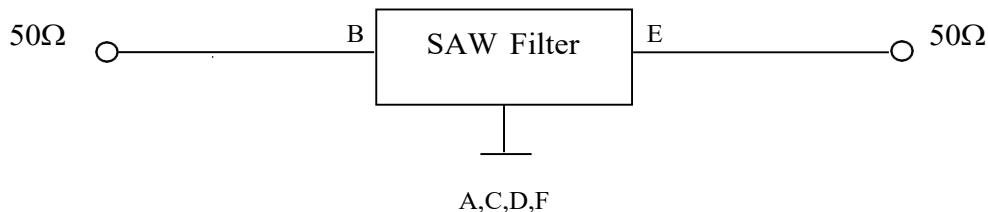
- Input Power Level: +25 dBm
- DC Voltage : 3V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	793	-
Insertion loss (788~798 MHz) IL	dB	-	1.8	2.5
Amplitude Ripple (788~798 MHz)	dB	-	0.7	1.5
Return Loss (788~798 MHz)	dB	10	13	-
Group Delay at Fc	ns	-	39	60
Group Delay Variation (788~798 MHz)	ns	-	18	60
Attenuation (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	-
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-

MEASUREMENT CIRCUIT:

HP Network analyzer

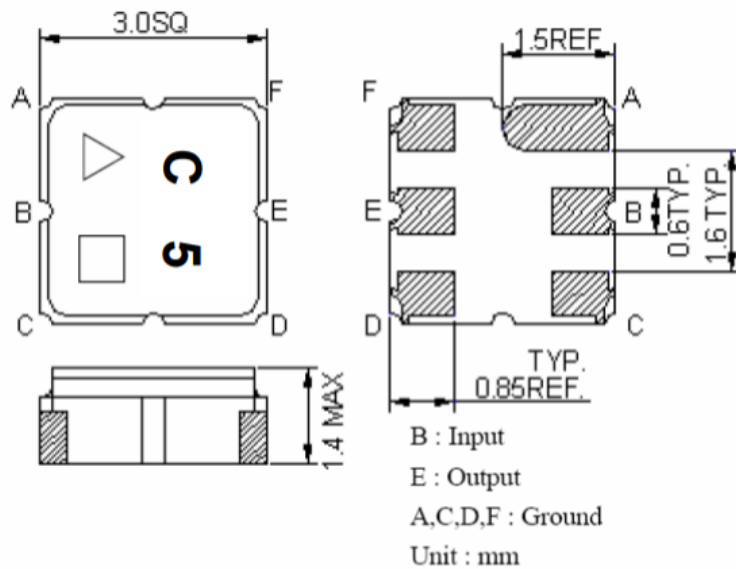




CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

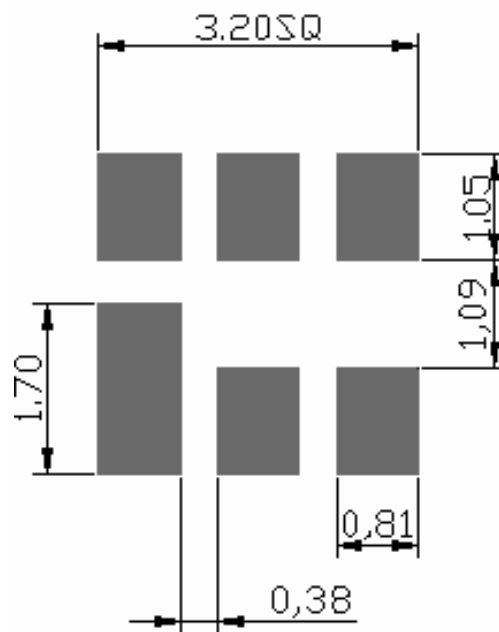
OUTLINE DRAWING:



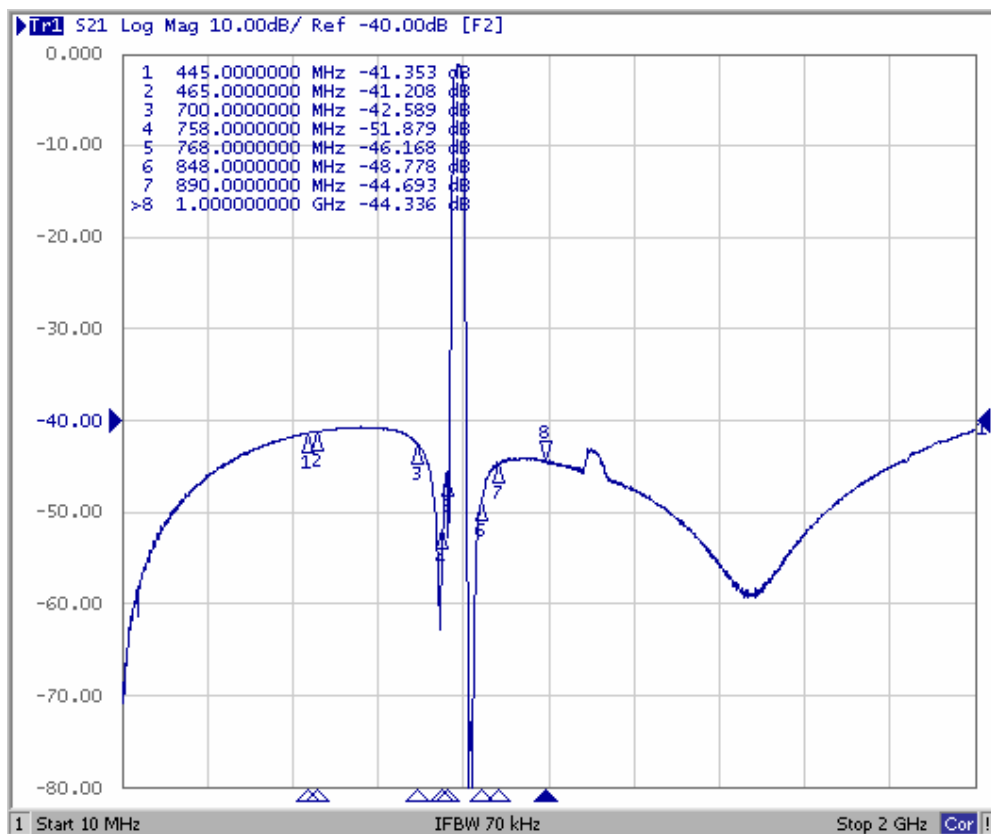
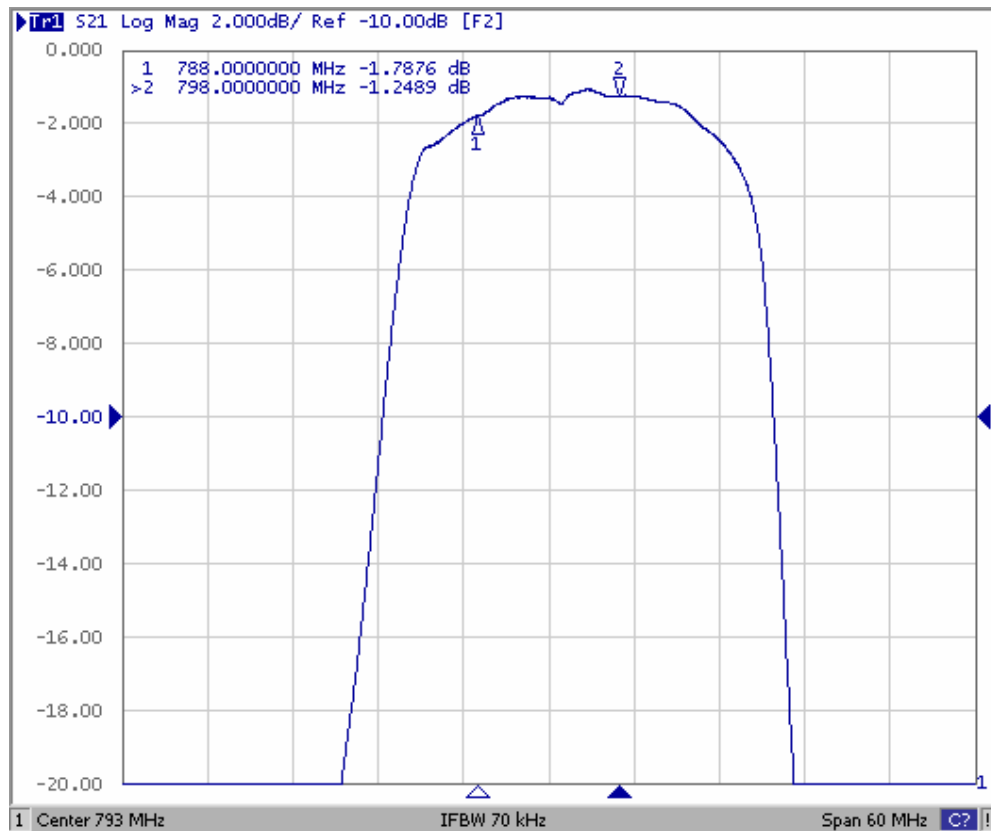
\triangle : Year Code(2010->0,...,2019->9)

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

PCB Footprint:



Frequency Characteristics: (typical performance at 25°C)

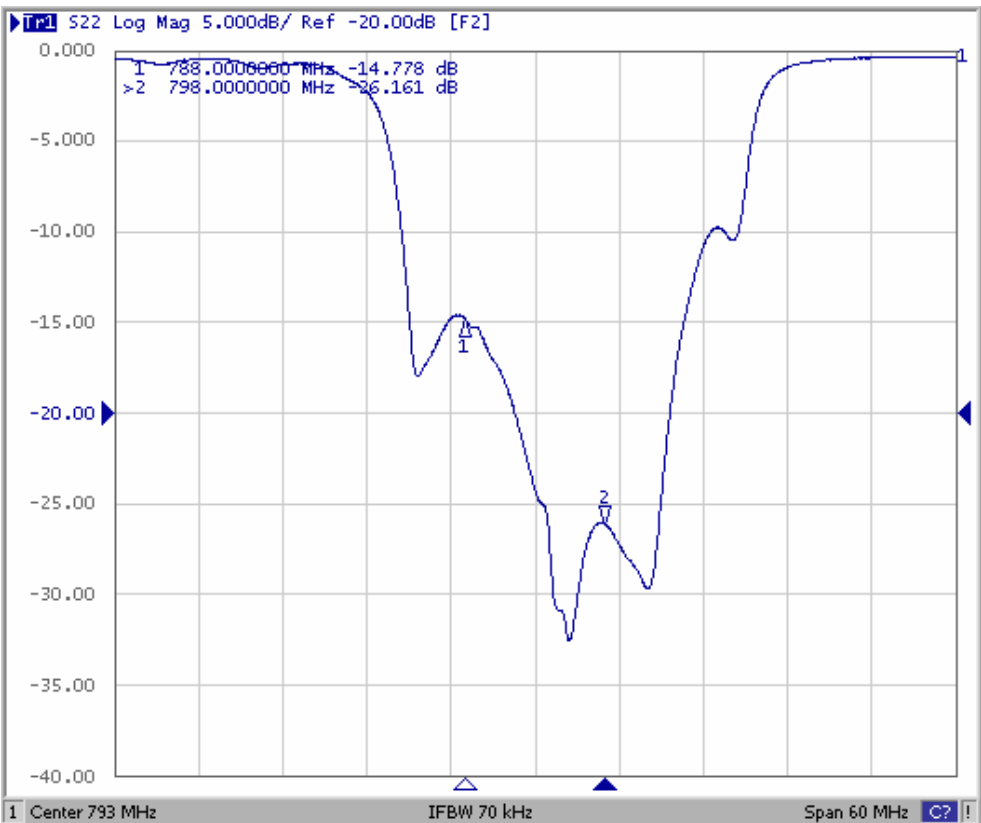


Reflection Functions: (typical performance at 25°C)

S11



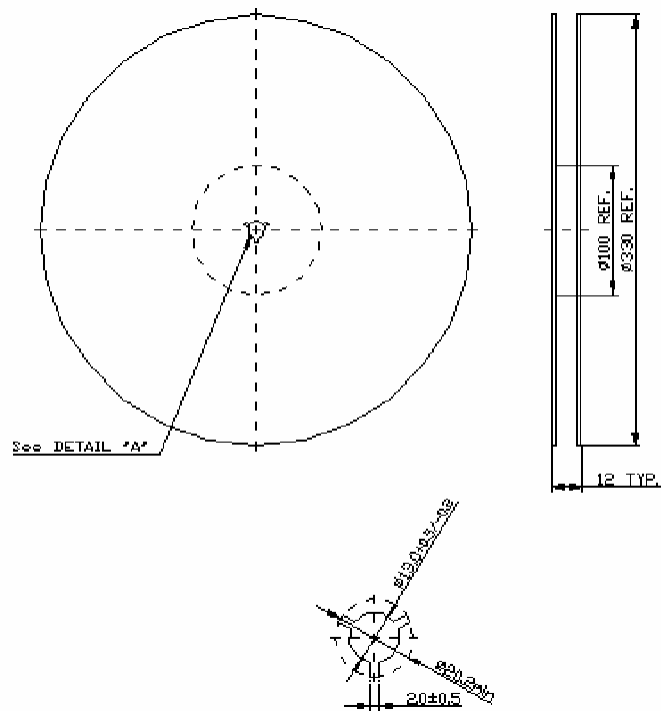
S22



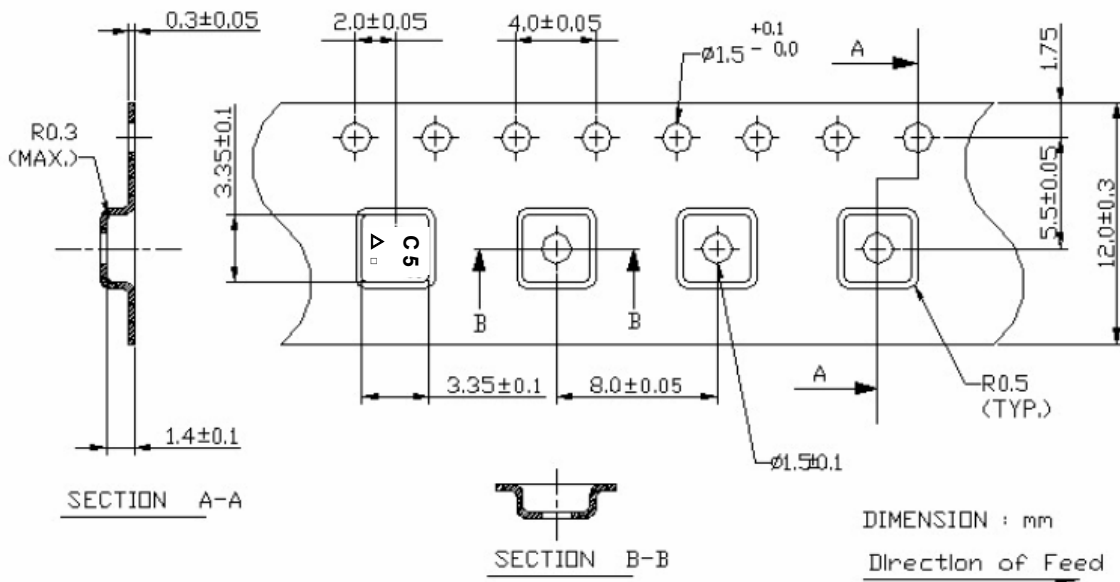
PACKING:

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.

