

## SAW Filter 1702.5 MHz

MODEL NO.: TA2727AA3112

REV. No.: 2.0

### A. MAXIMUM RATING:

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



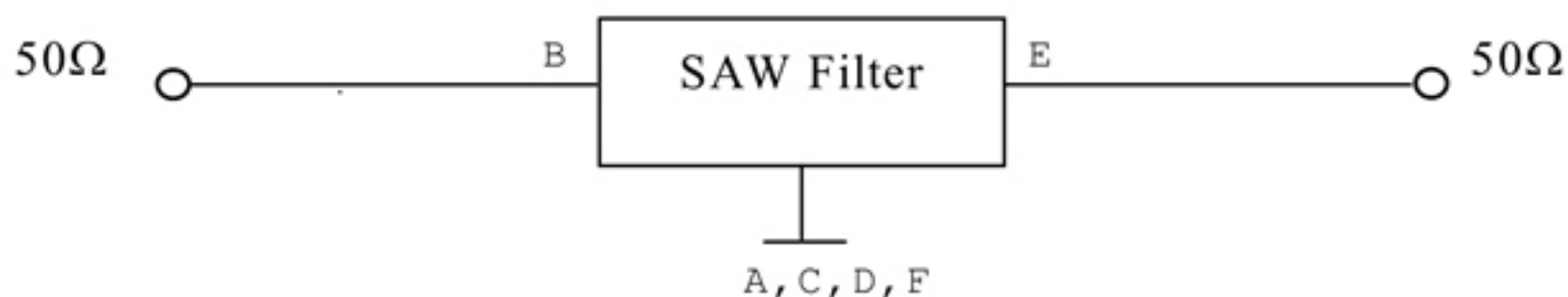
Electrostatic Sensitive Device

### B. ELECTRICAL CHARACTERISTICS:

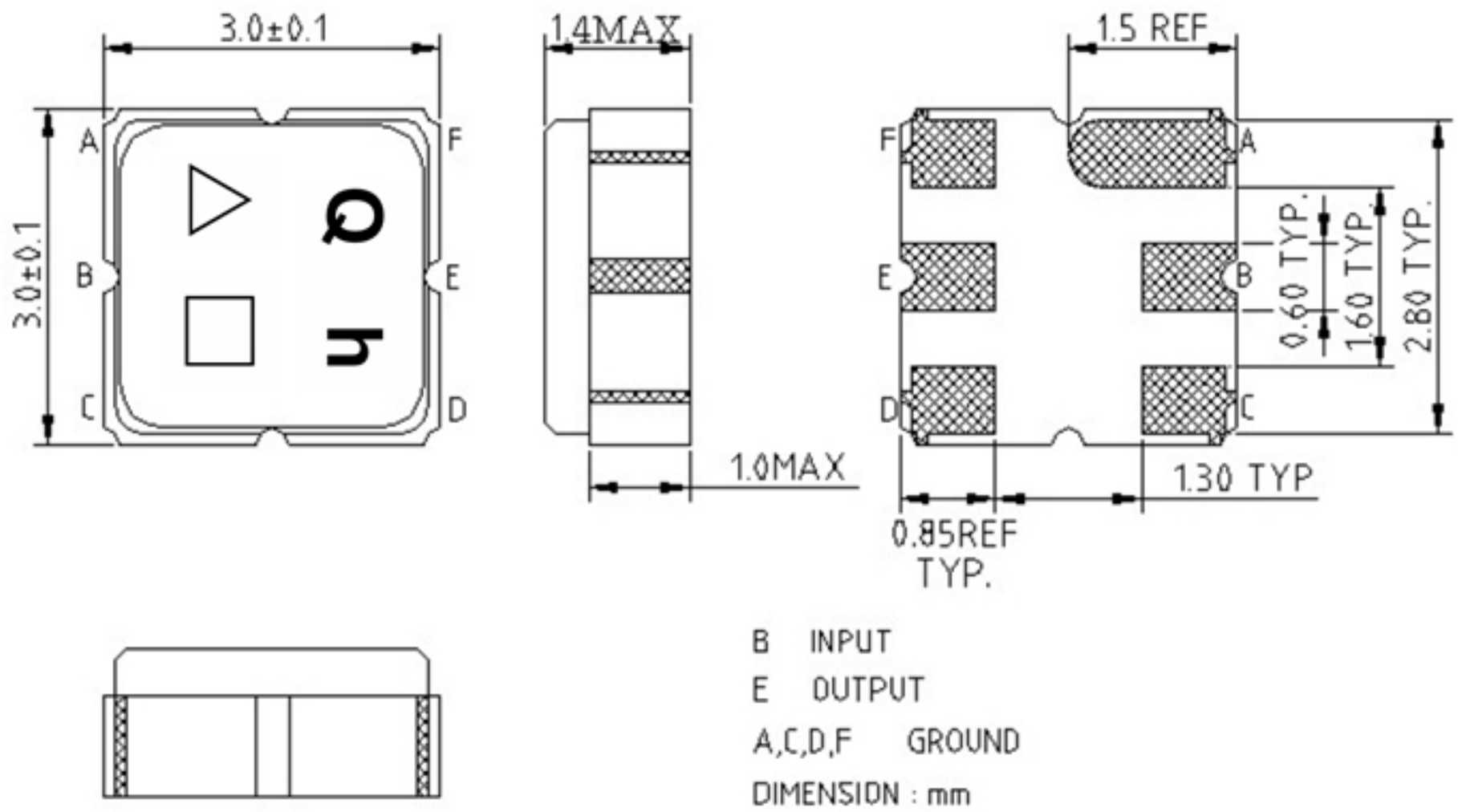
Item	Unit	Min.	Typ.	Max.
<b>Center frequency</b> <b>F<sub>c</sub></b>	MHz	-	1702.5	-
<b>Insertion loss</b> within (1695 ~1710 MHz) <b>IL</b>	dB	-	2.2	3.0
<b>Amplitude Variation</b> (1695 ~1710 MHz)	dB(p-p)	-	0.3	1.0
<b>Return Loss</b> (1695 ~1710 MHz)	dB	10	15	
<b>Attenuation</b> (Reference level from 0 dB)				
10 ~ 730 MHz	dB	30	39	-
770 ~ 1500 MHz	dB	35	39	-
1850 ~ 3960 MHz	dB	20	34	-
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36 typ.	-

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D.OUTLINE DRAWING:**

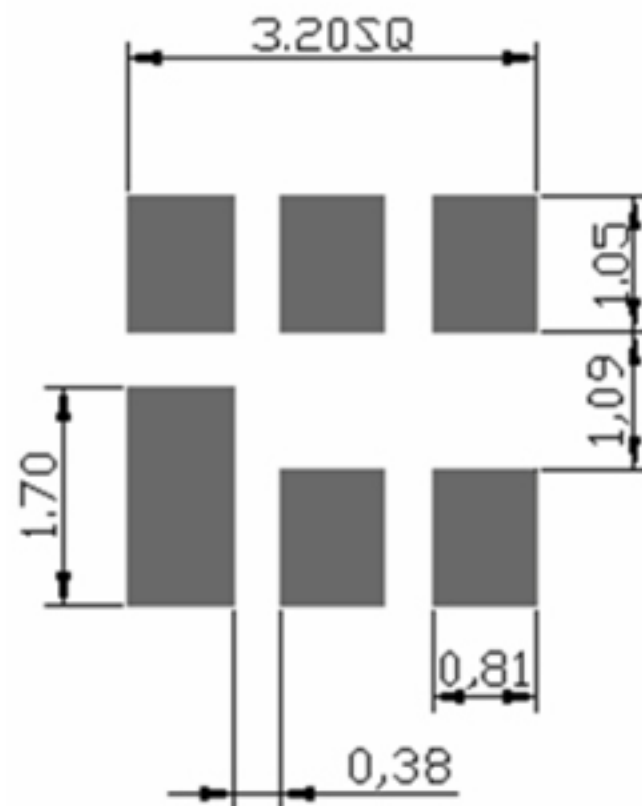


△ : Year Code(2020→0, ..., 2023→3, ..., 2029→9)

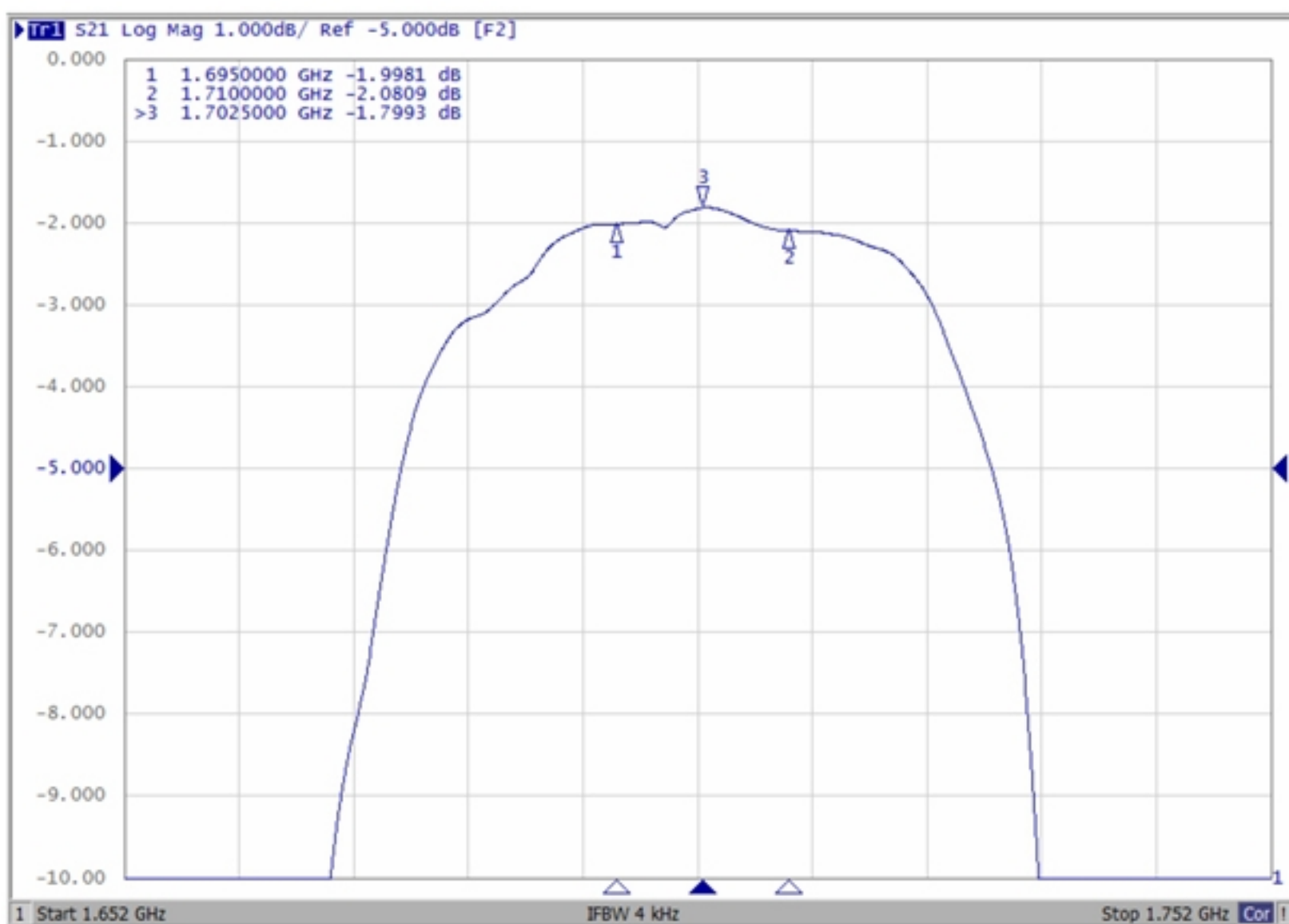
□ : Date Code(Follow the table from planner each year)

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

**E. PCB Footprint :**



## F. Frequency Characteristics:



## Reflection Functions: Return Loss







## H. 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 245~260°C peak (min. 10sec).
4. Time: 2 times.

