SAW Filter 1621.25 MHz

MODEL NO.:TA2395A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -50℃ to +95℃
5. ESD Machine Mode : 50V
6. ESD Human Body Mode : 100V
7. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

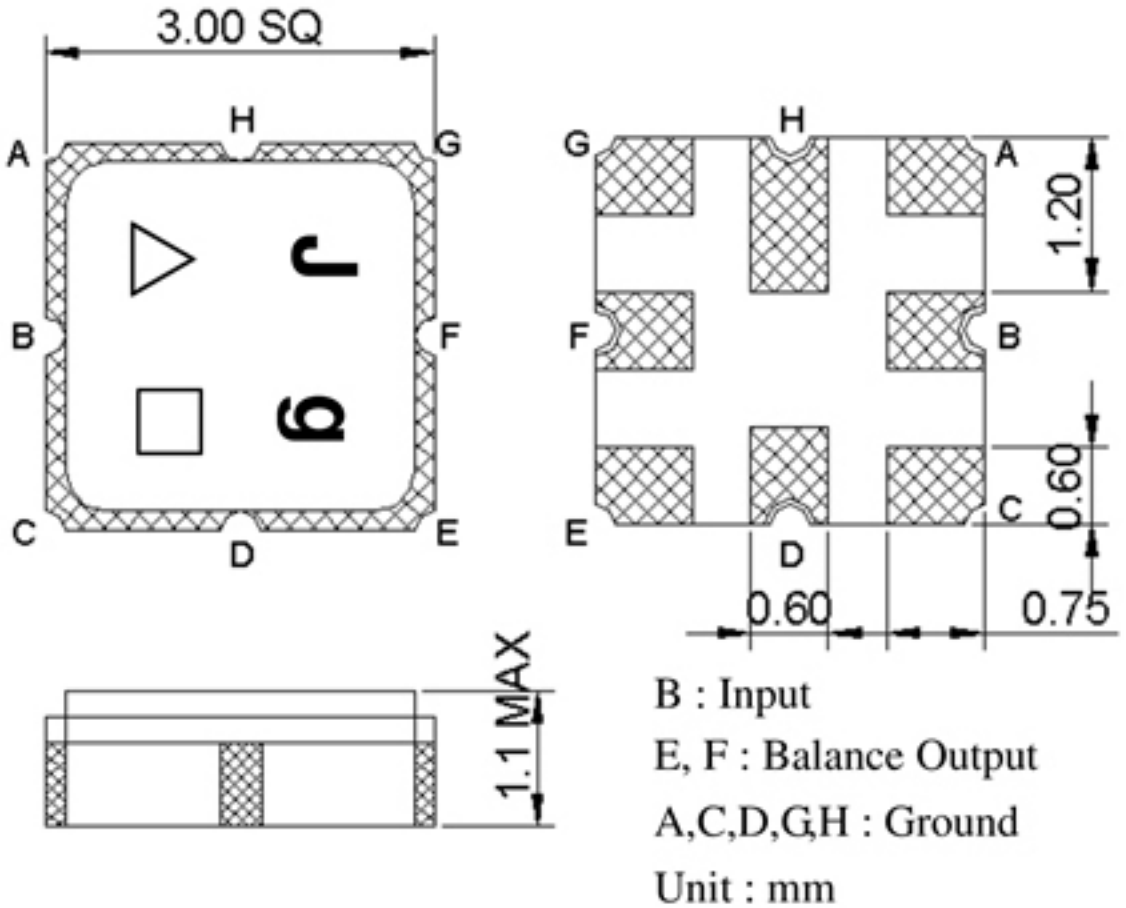
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_S = 50\ \Omega$

Terminating load impedance (differential) : $Z_L = 200\ \Omega\ //\ 30$ nH

Item		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	1621.25	-
Insertion Loss (1616~1626.5 MHz)		dB	-	1.7	3
Amplitude ripple (1616 MHz ~ 1626.5 MHz)		dB	-	0.2	1.5
Input Return Loss (1616 MHz ~ 1626.5 MHz)		dB	8	10	-
Output Return Loss (1616 MHz ~ 1626.5 MHz)		dB	9	12	-
Attenuation (reference level from 0 dB)					
200 ~ 1500 MHz		dB	31	44	-
1500 ~ 1570 MHz		dB	25	27	-
1570 ~ 1580 MHz		dB	16	24	-
1580 ~ 1591 MHz		dB	6	13	-
1652 ~ 1667 MHz		dB	8	15	-
1667 ~ 1690 MHz		dB	14	21	-
1690 ~ 1800 MHz		dB	24	29	-
1800 ~ 2200 MHz		dB	31	40	-
2200 ~ 3000 MHz		dB	26	35	-

C.OUTLINE DRAWING:



B : Input

E, F : Balance Output

A,C,D,G,H : Ground

Unit : mm

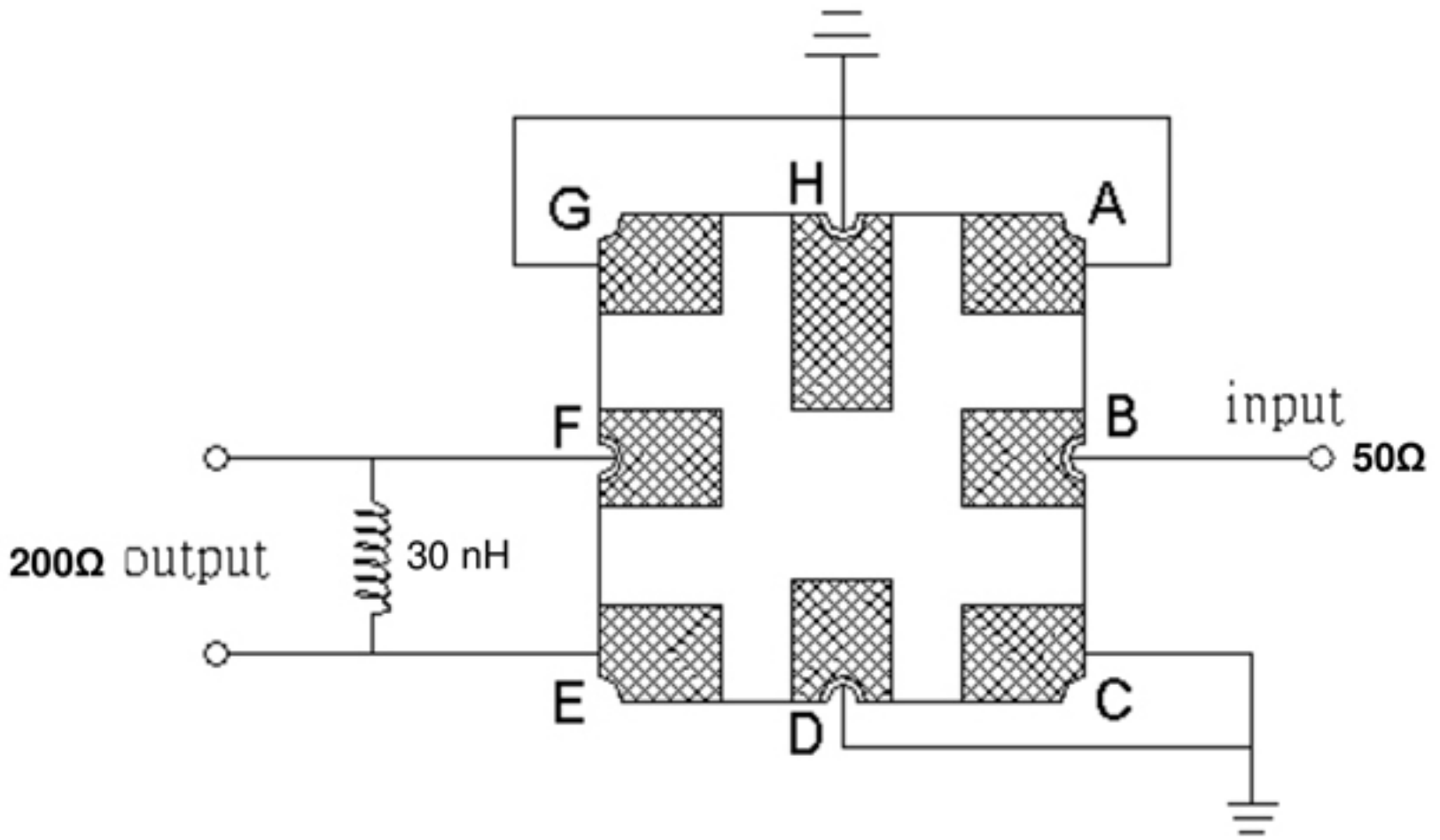
△ : Year Code (2009->9, 2010->0,…, 2018->8)

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

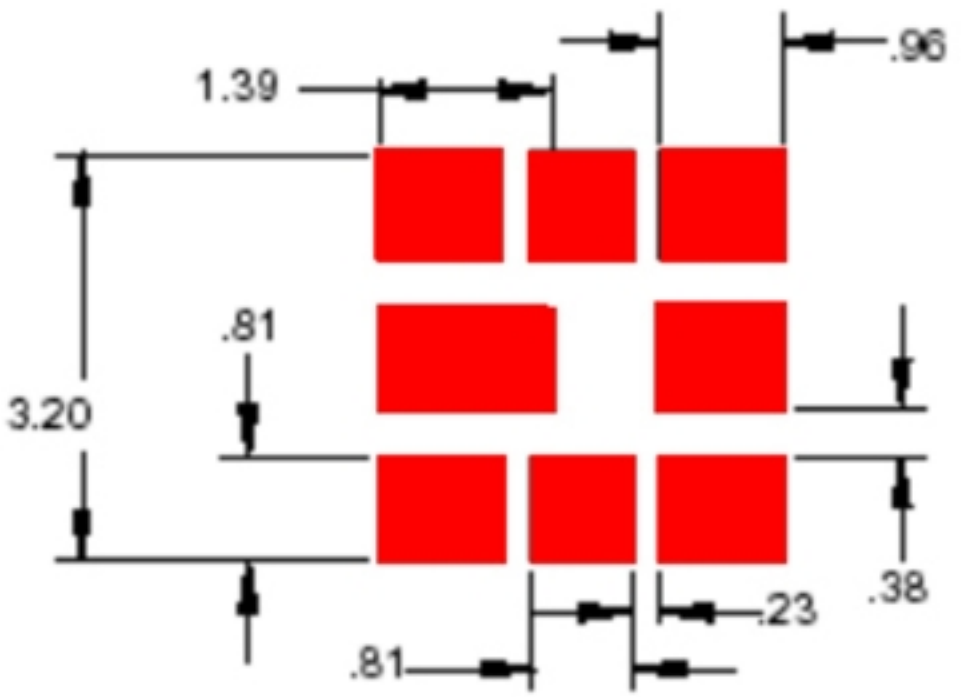
Date Code Table

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

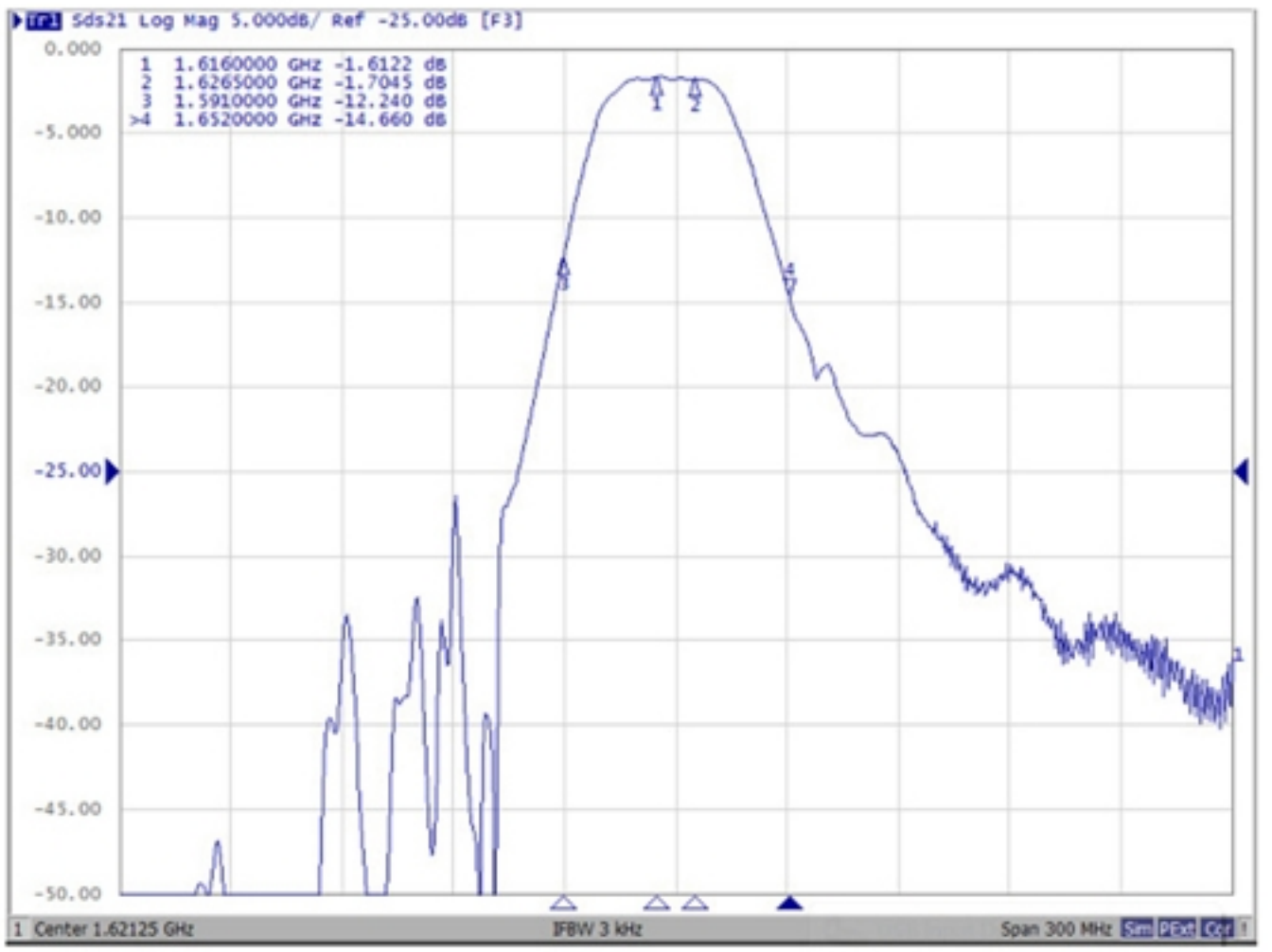
D. MEASUREMENT CIRCUIT:

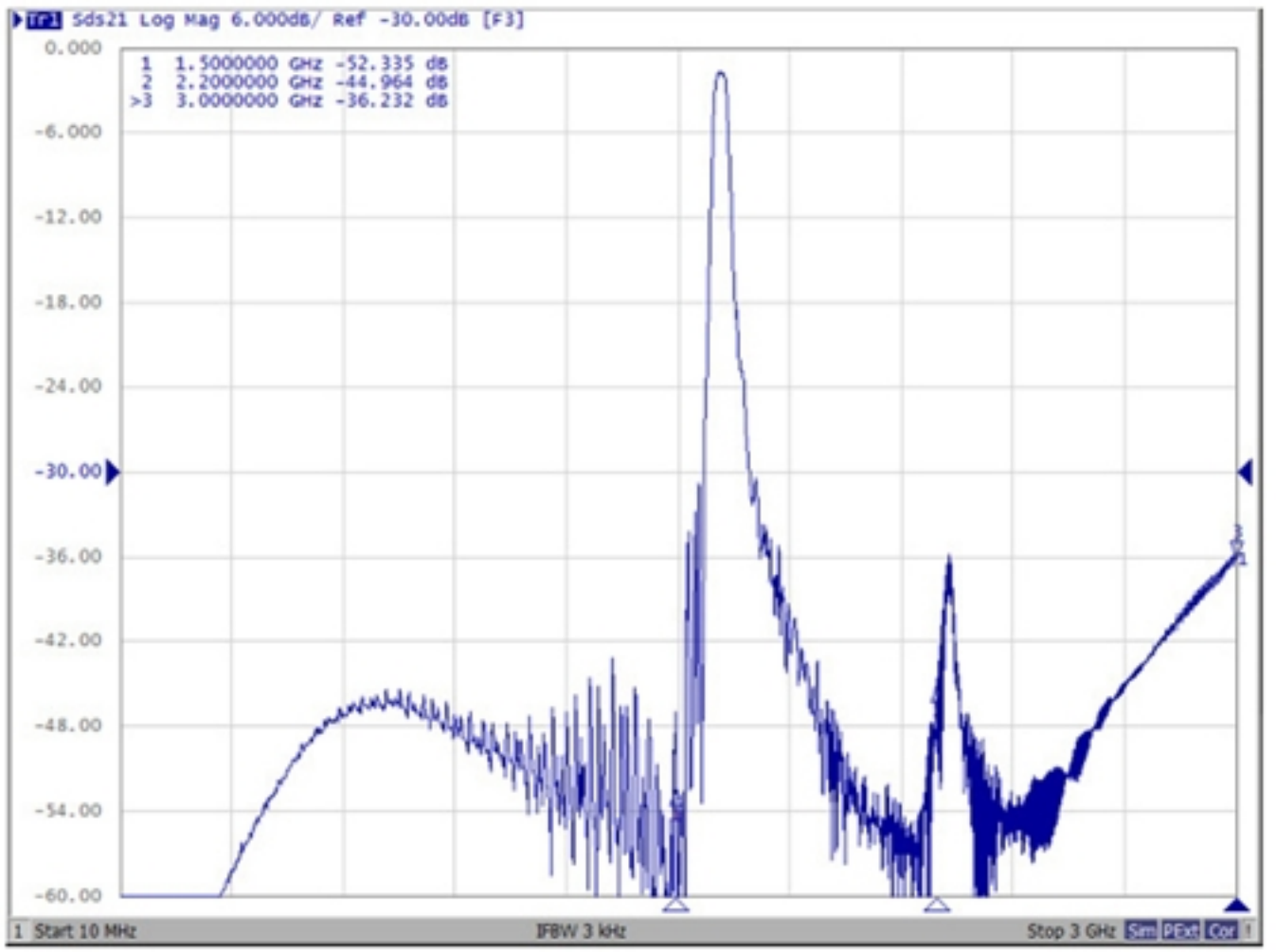


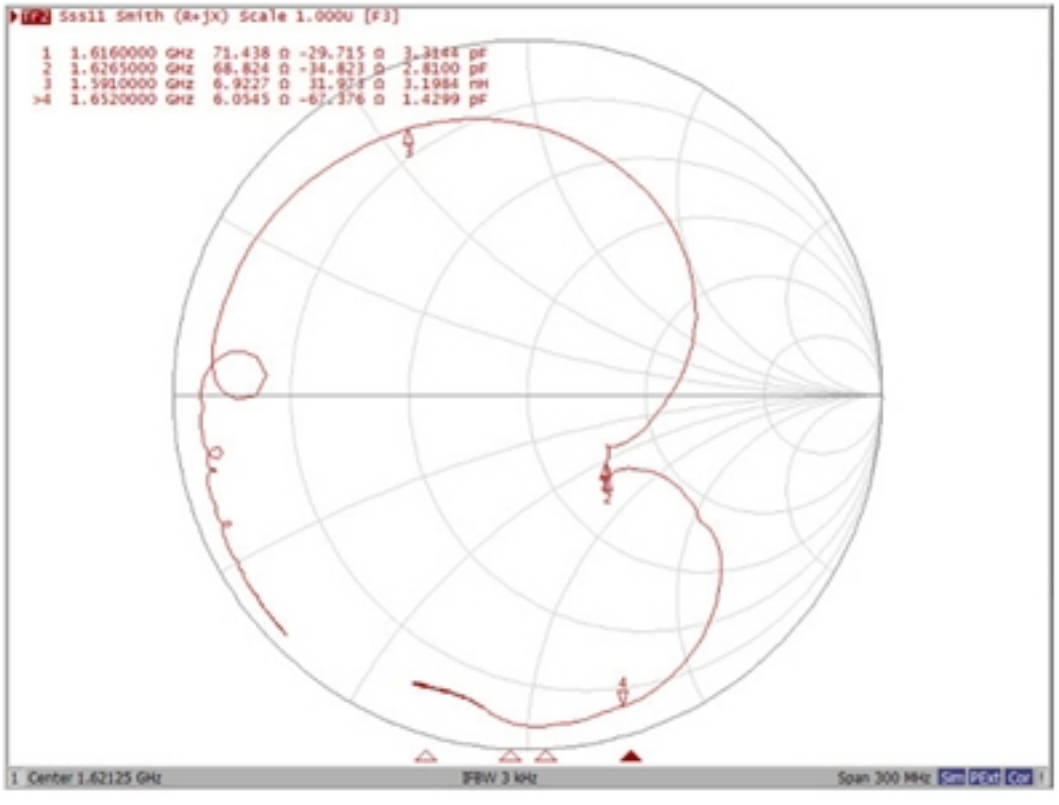
E. PCB Footprint:

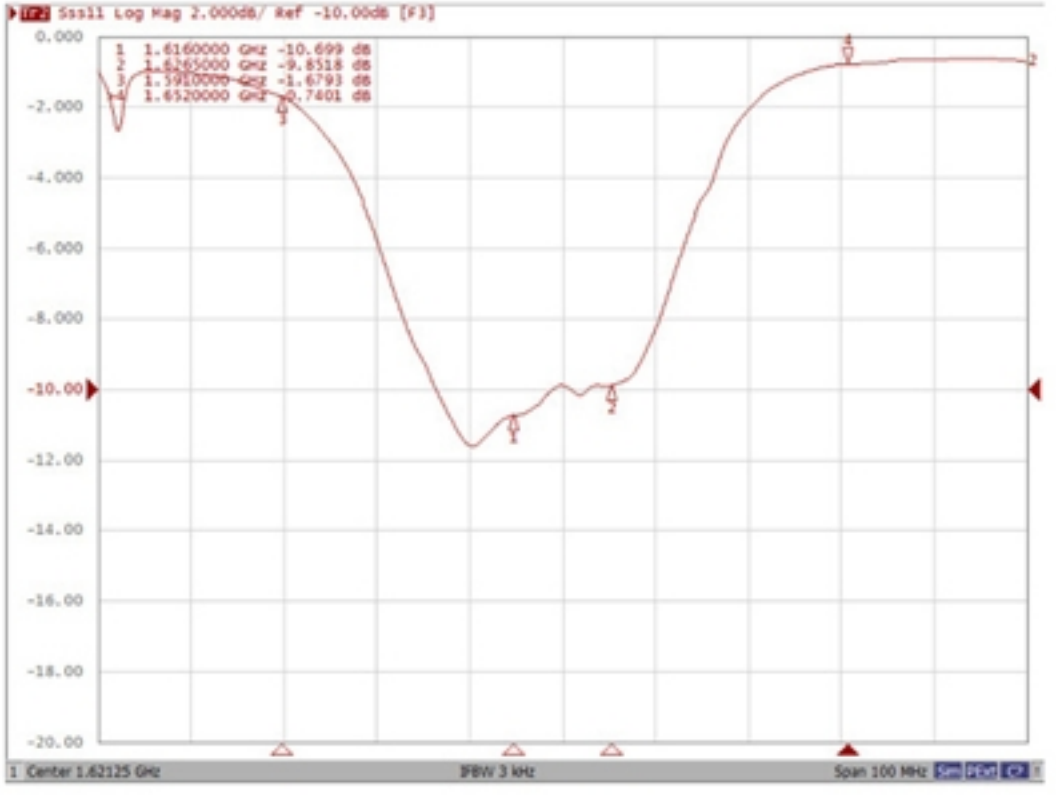


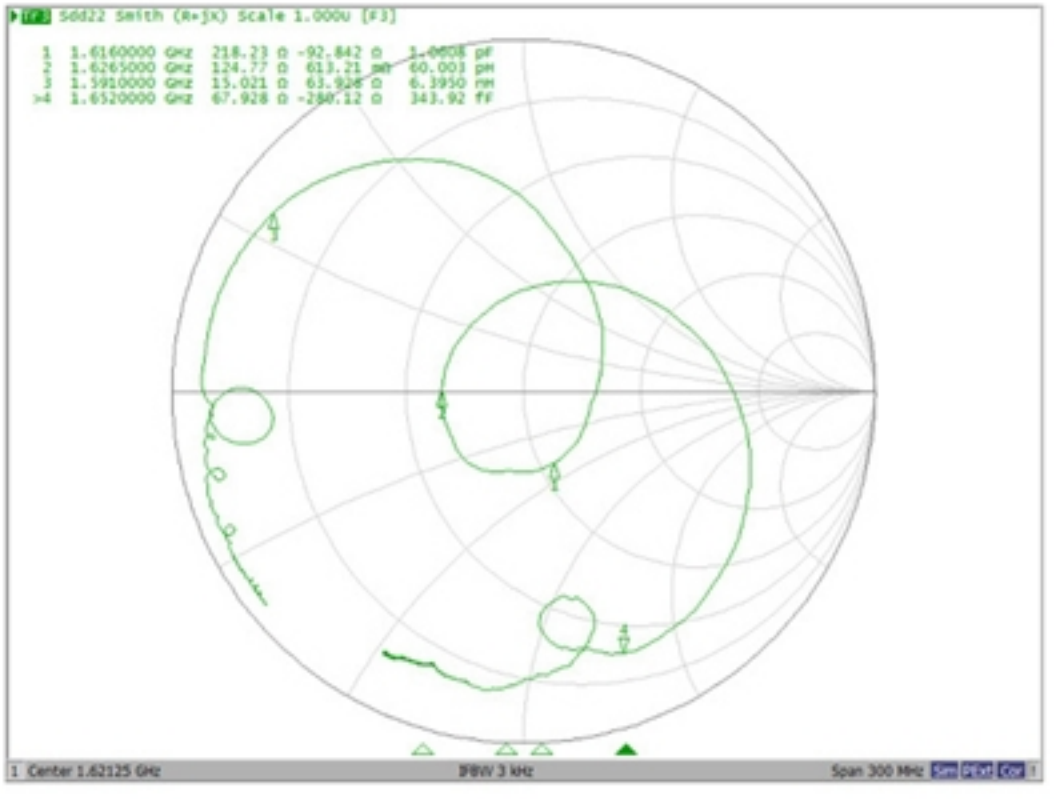
F. Frequency Characteristics :

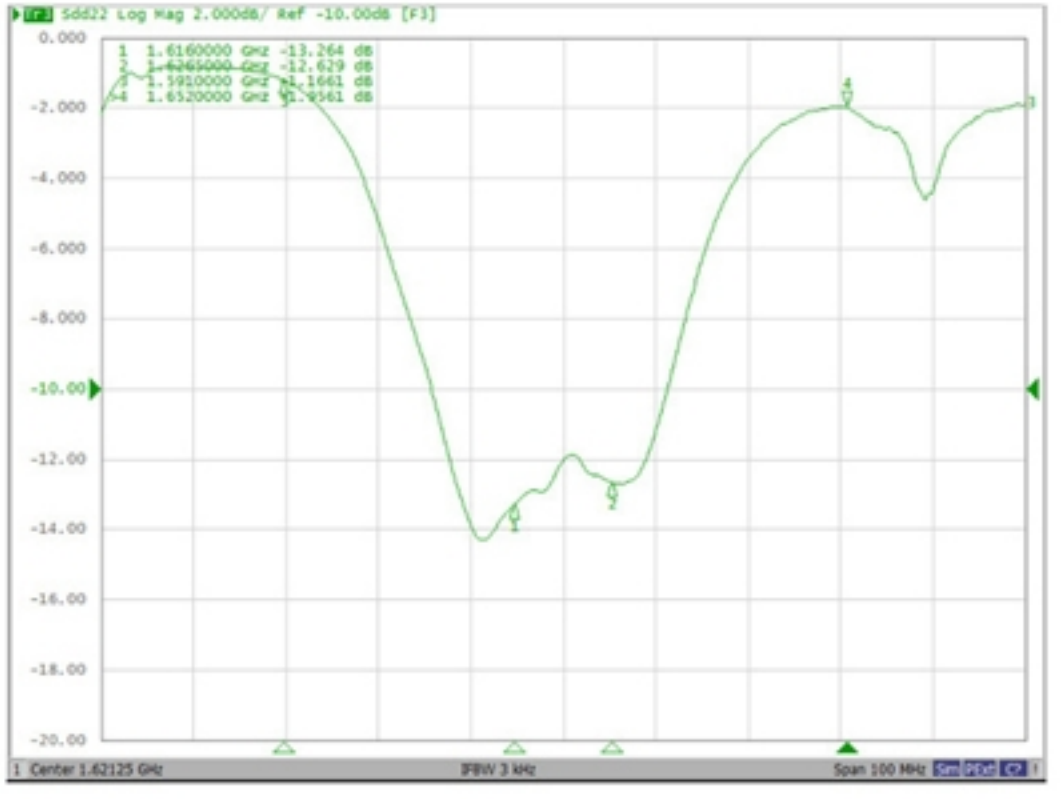





Ch2 Ss11 Smith (R+jX) Scale 1.000U [F3]
1 1.6160000 GHz 71.438 Ω -29.715 Ω 3.3144 pF
2 1.6265000 GHz 68.824 Ω -34.823 Ω 2.8100 pF
3 1.5910000 GHz 6.9227 Ω 31.928 Ω 3.1984 nH
>4 1.6520000 GHz 6.0545 Ω -62.376 Ω 1.4299 pF
1 Center 1.62125 GHz
IFBW 3 kHz
Span 300 MHz


Ch2 Ss11 Log Mag 2.000dB/ Ref -10.00dB [F3]
1 1.6160000 GHz -10.699 dB
2 1.6265000 GHz -9.8518 dB
3 1.5910000 GHz -1.6793 dB
>4 1.6520000 GHz -0.7401 dB
0.000
-2.000
-4.000
-6.000
-8.000
-10.00
-12.00
-14.00
-16.00
-18.00
-20.00
1 Center 1.62125 GHz
IFBW 3 kHz
Span 100 MHz

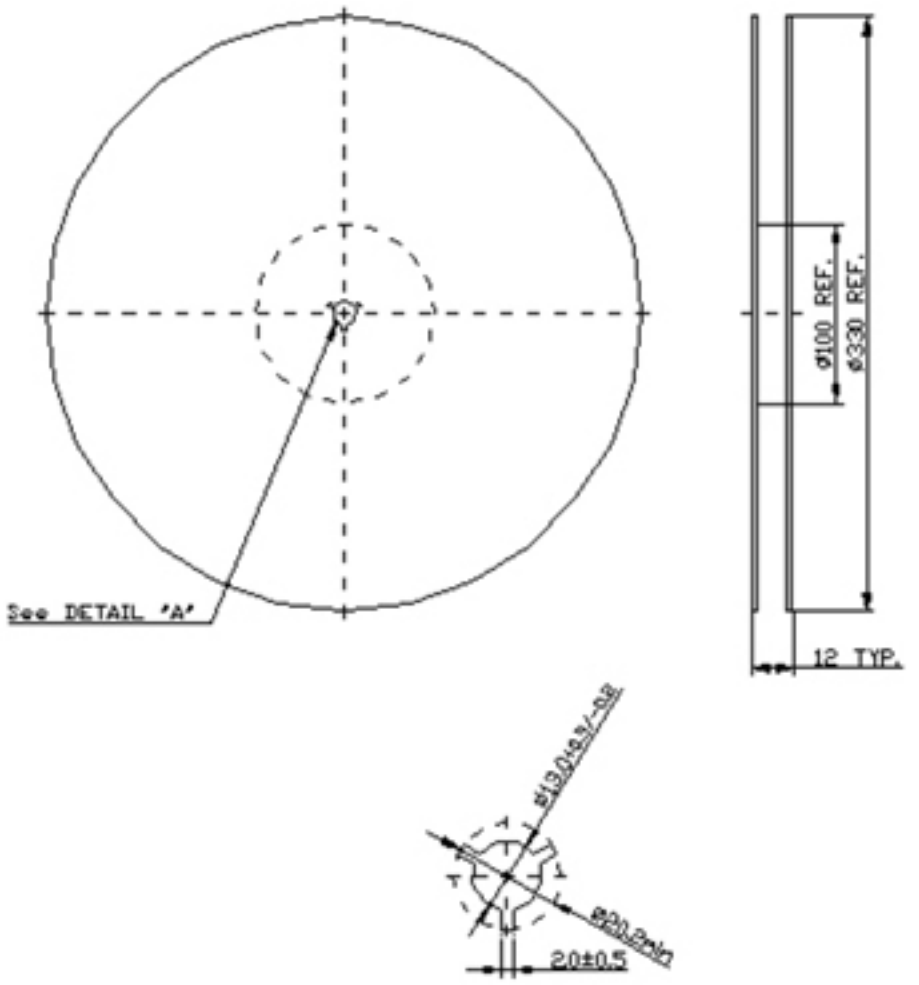

Ch2 Sdd22 Smith (R+jX) Scale 1.000U [F3]
1 1.6160000 GHz 218.23 Ω -92.842 Ω 1.0608 pF
2 1.6265000 GHz 124.77 Ω 613.21 mΩ 60.003 pH
3 1.5910000 GHz 15.021 Ω 63.926 Ω 6.3950 nH
>4 1.6520000 GHz 67.928 Ω -280.12 Ω 343.92 fF
1 Center 1.62125 GHz
IFBW 3 kHz
Span 300 MHz


Ch2 Sdd22 Log Mag 2.000dB/ Ref -10.00dB [F3]
1 1.6160000 GHz -13.264 dB
2 1.6265000 GHz -12.629 dB
3 1.5910000 GHz -1.1661 dB
>4 1.6520000 GHz -1.9561 dB
0.000
-2.000
-4.000
-6.000
-8.000
-10.00
-12.00
-14.00
-16.00
-18.00
-20.00
1 Center 1.62125 GHz
IFBW 3 kHz
Span 100 MHz

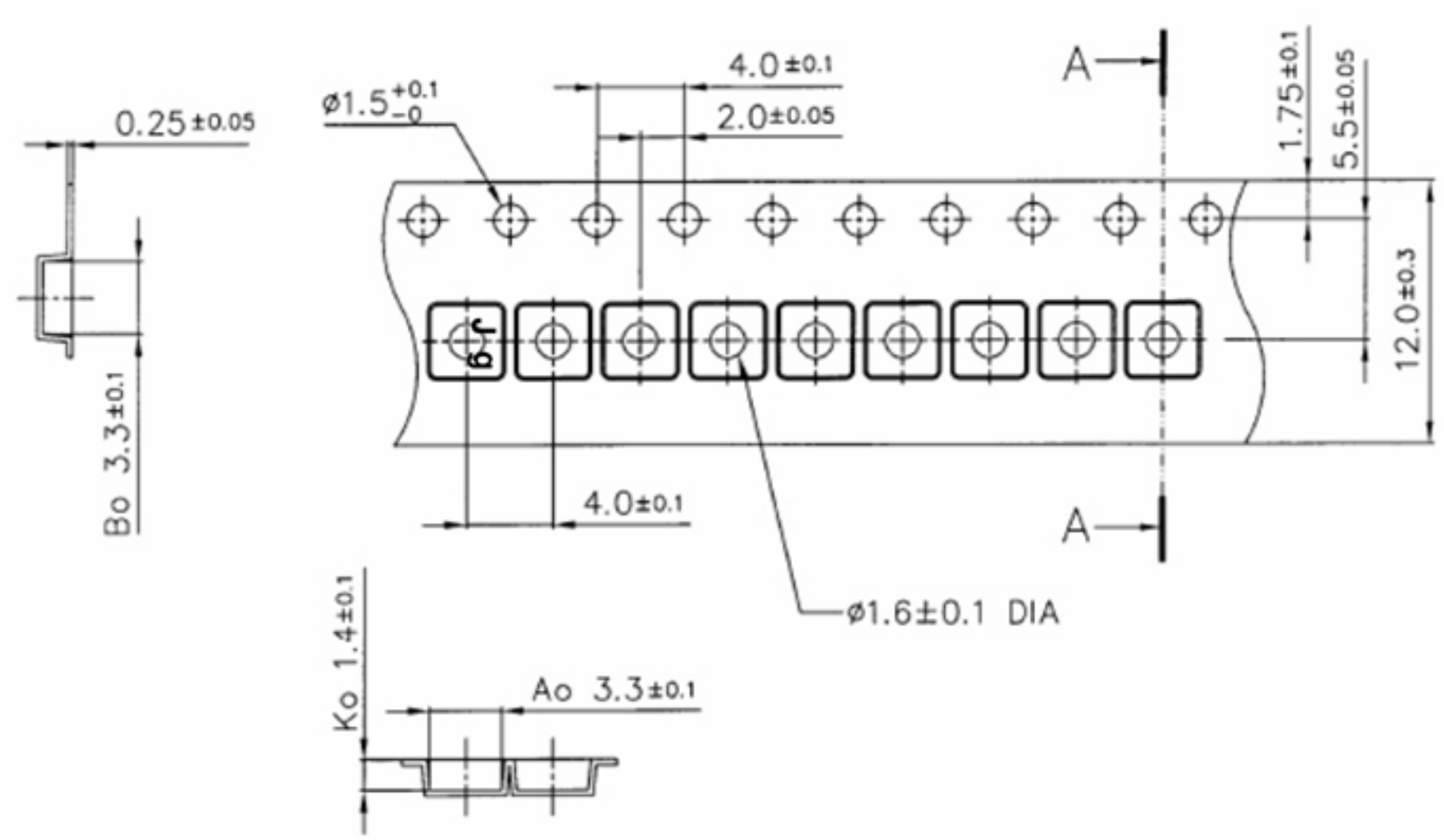
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.