

SAW Filter 974 MHz

MODEL NO.:TA0729A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -50 °C to +95 °C
5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) : $Z_s = 150 \Omega // 39 \text{ nH}$

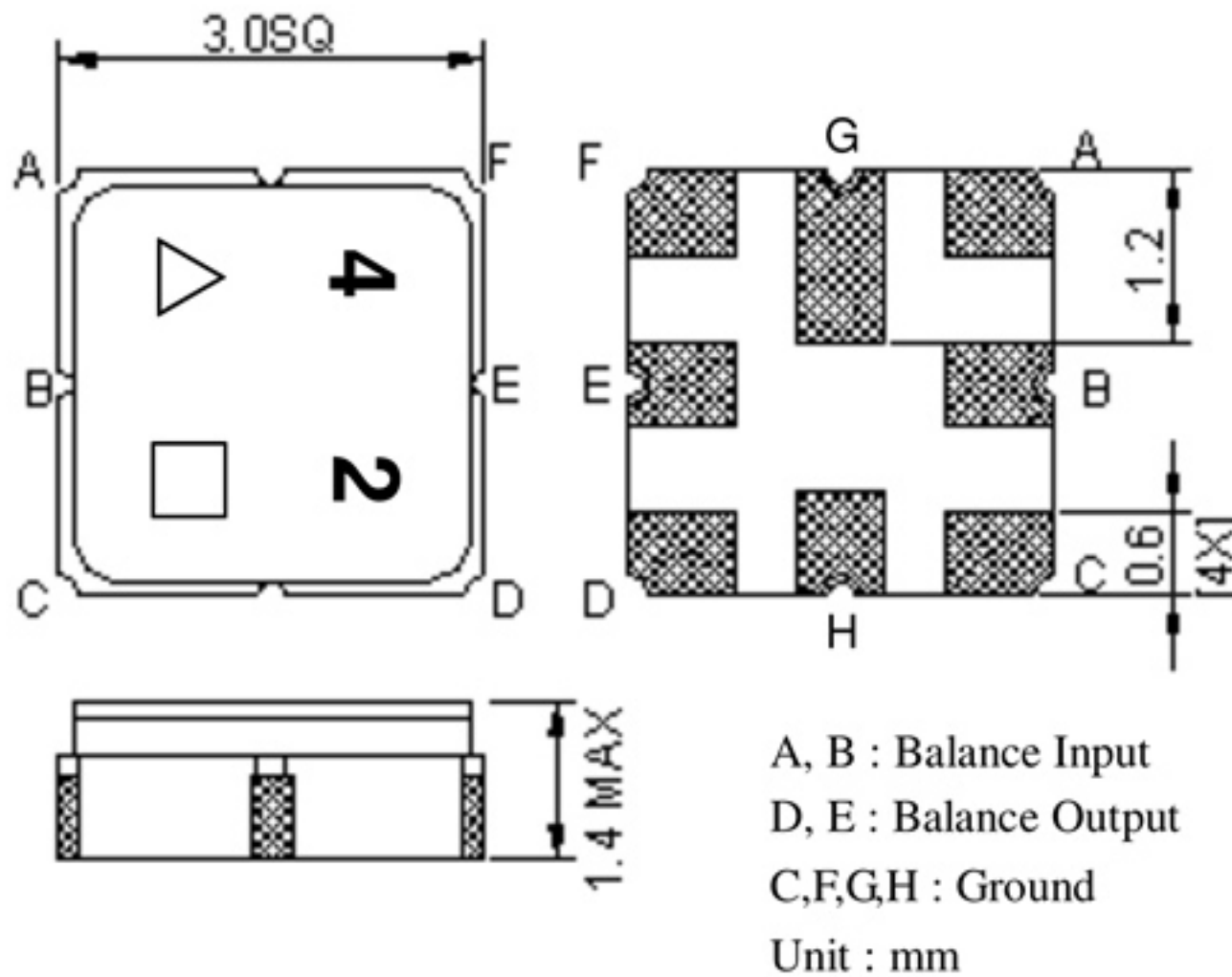
Terminating load impedance (differential) : $Z_L = 150 \Omega // 39 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency F_c	MHz	-	974	-	-
Bandwidth at -2 dB	MHz	40	60	-	-
Insertion Loss in 954~994 MHz	dB	-	3.6	5	-
Amplitude ripple (954 MHz ~ 994 MHz)	dB	-	0.9	2	-
Phase error (954 MHz ~ 994 MHz) (3)	deg	-	3.2	5.5	-
I/O VSWR (954 MHz ~ 994 MHz)		-	2	2.3	-
Attenuation (1)					
50 ~ 891.94 MHz	dB	40	44	-	-
1056.06 ~ 1300 MHz	dB	35	38	-	-
1300 ~ 2000 MHz	dB	44	55	-	-
2000 ~ 6000 MHz	dB	33	35	-	-

Notes :

- (1) The amplitude reference is insertion loss at F_c .
- (2) The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
- (3) The phase error is measured over any 30 MHz block of the given bandwidth.

C. OUTLINE DRAWING:

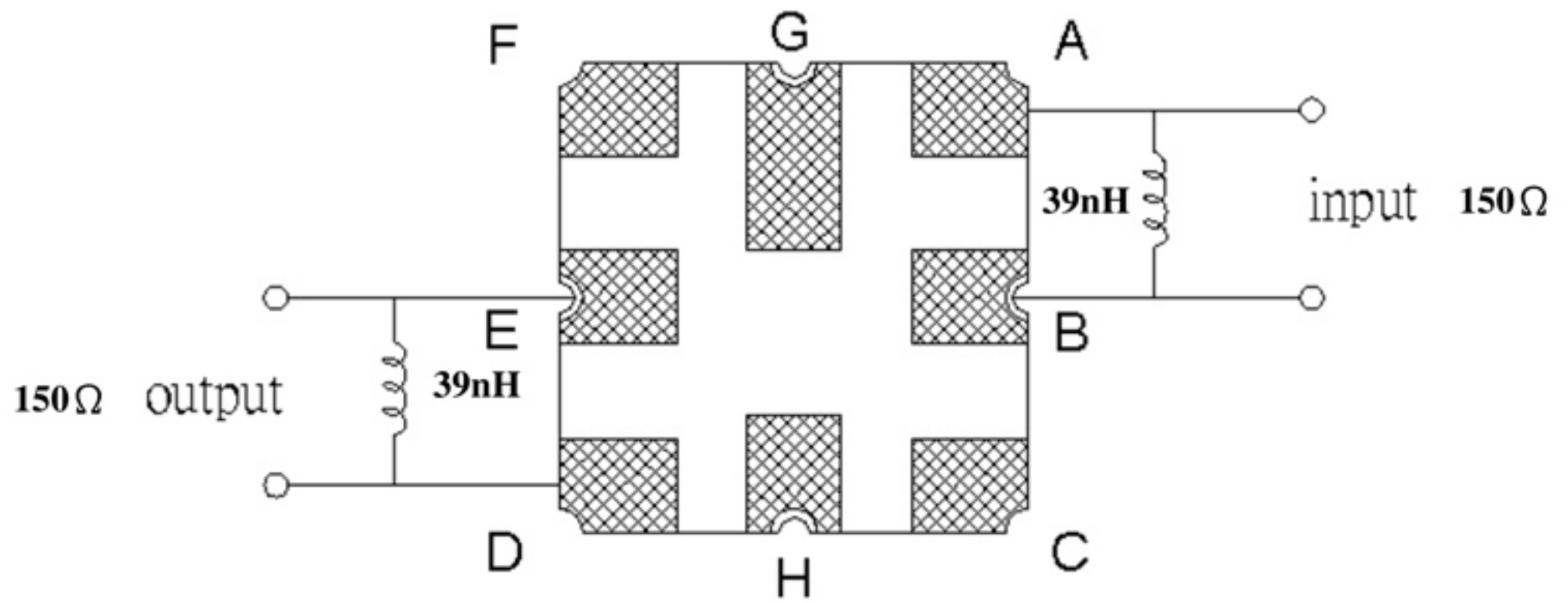


△ : Year Code (2016->6, ..., 2019->9)

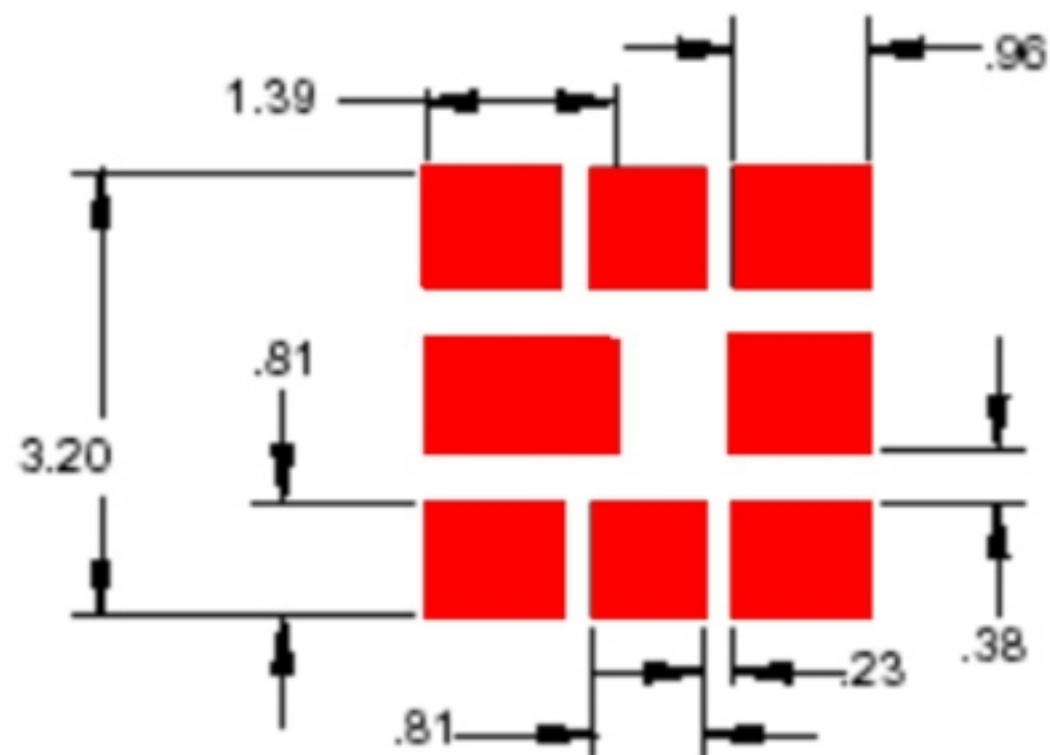
□ : Date Code (Follow the table from planner each year)

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

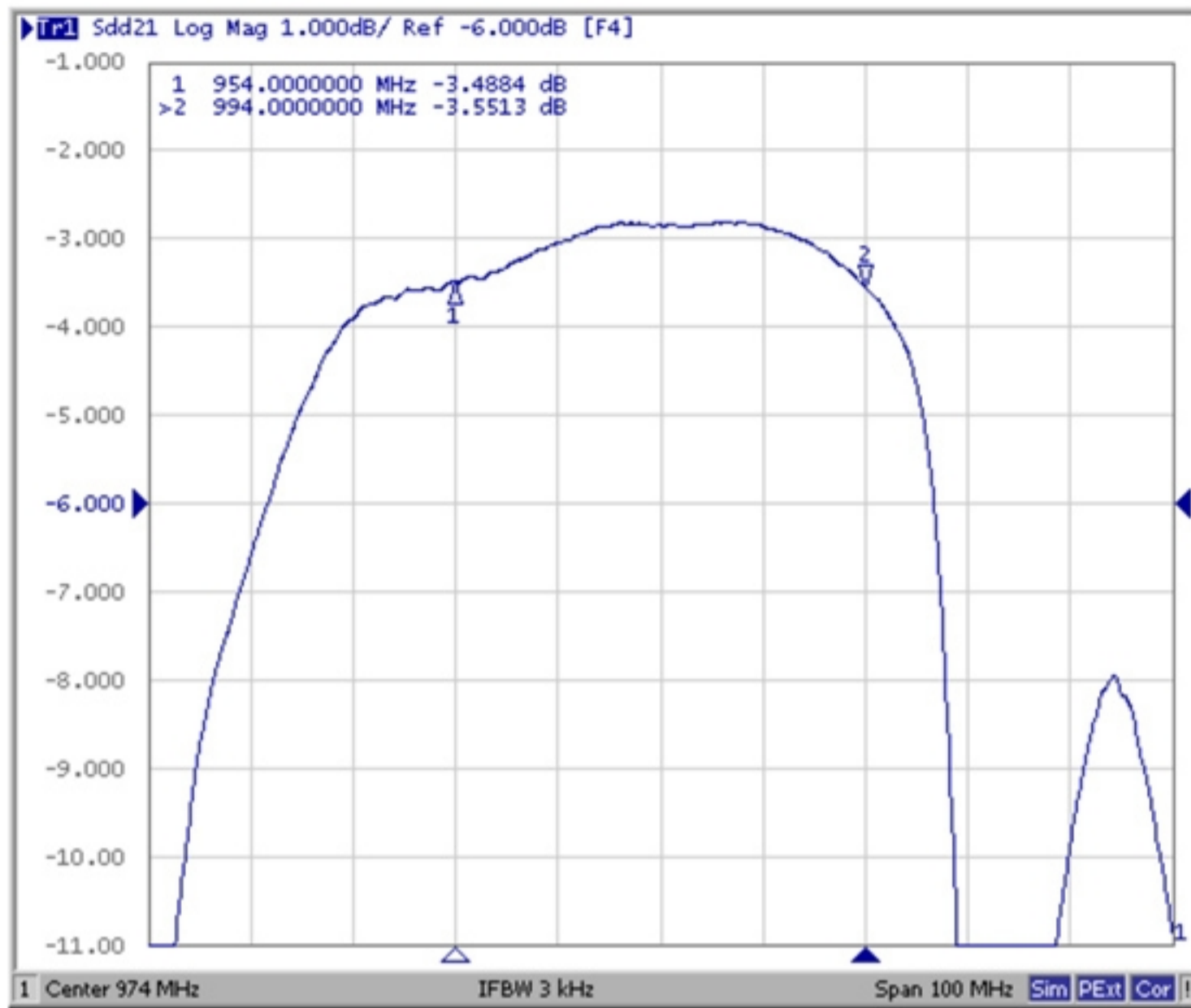
D. MEASUREMENT CIRCUIT:

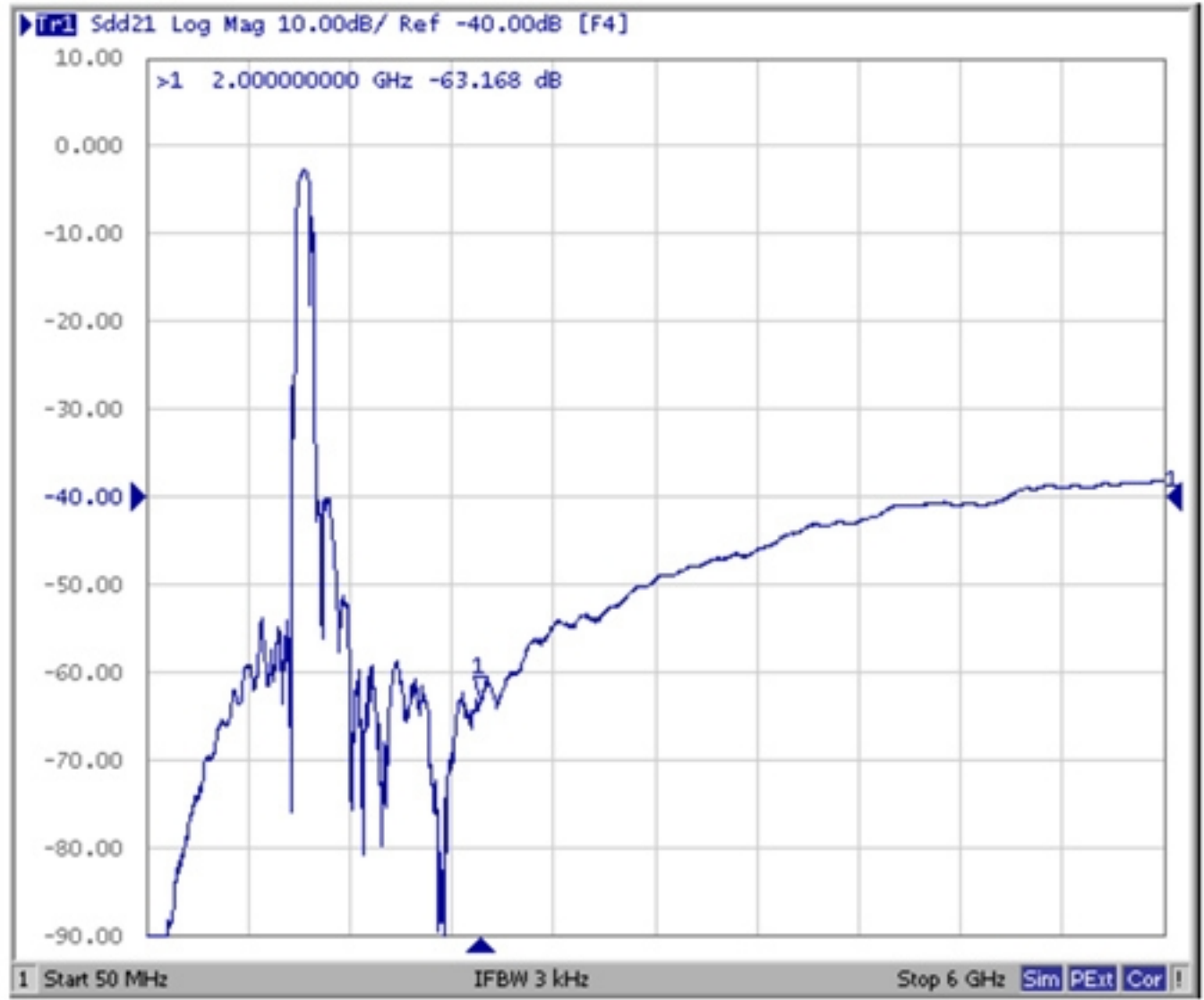


E. PCB Footprint:



F. Frequency Characteristics:

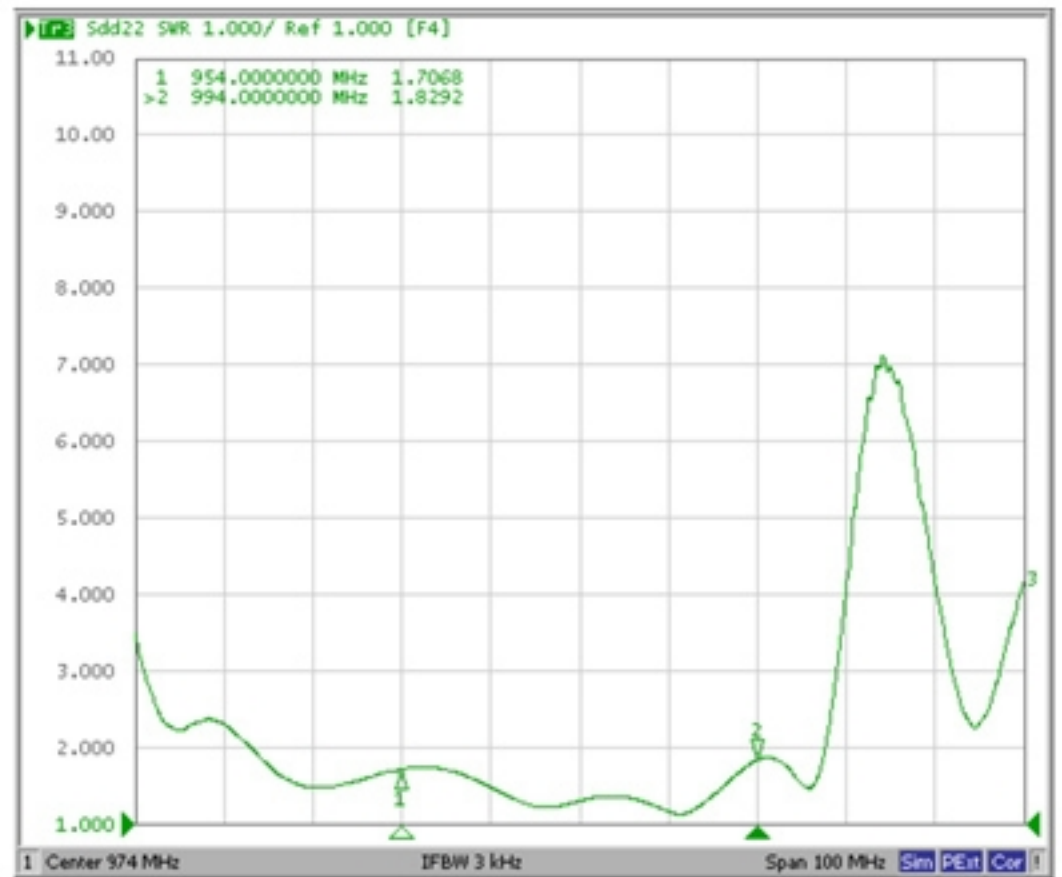
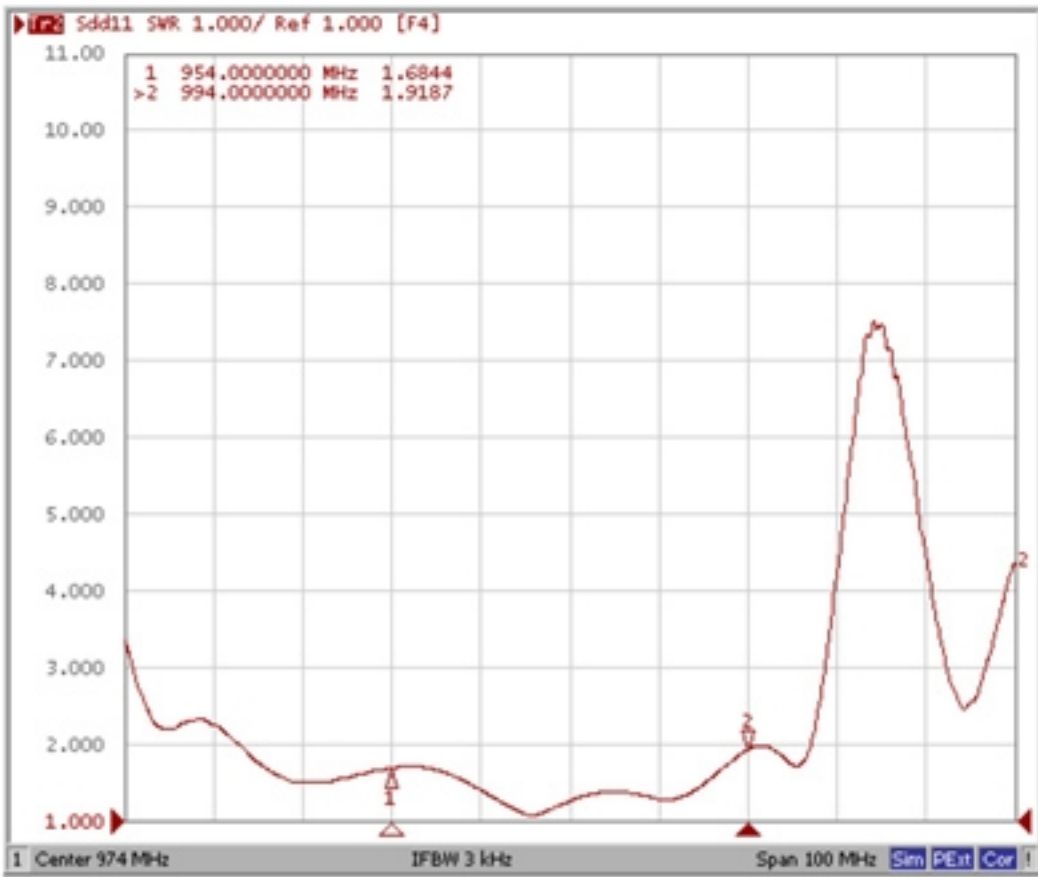




Reflection Functions:

S11

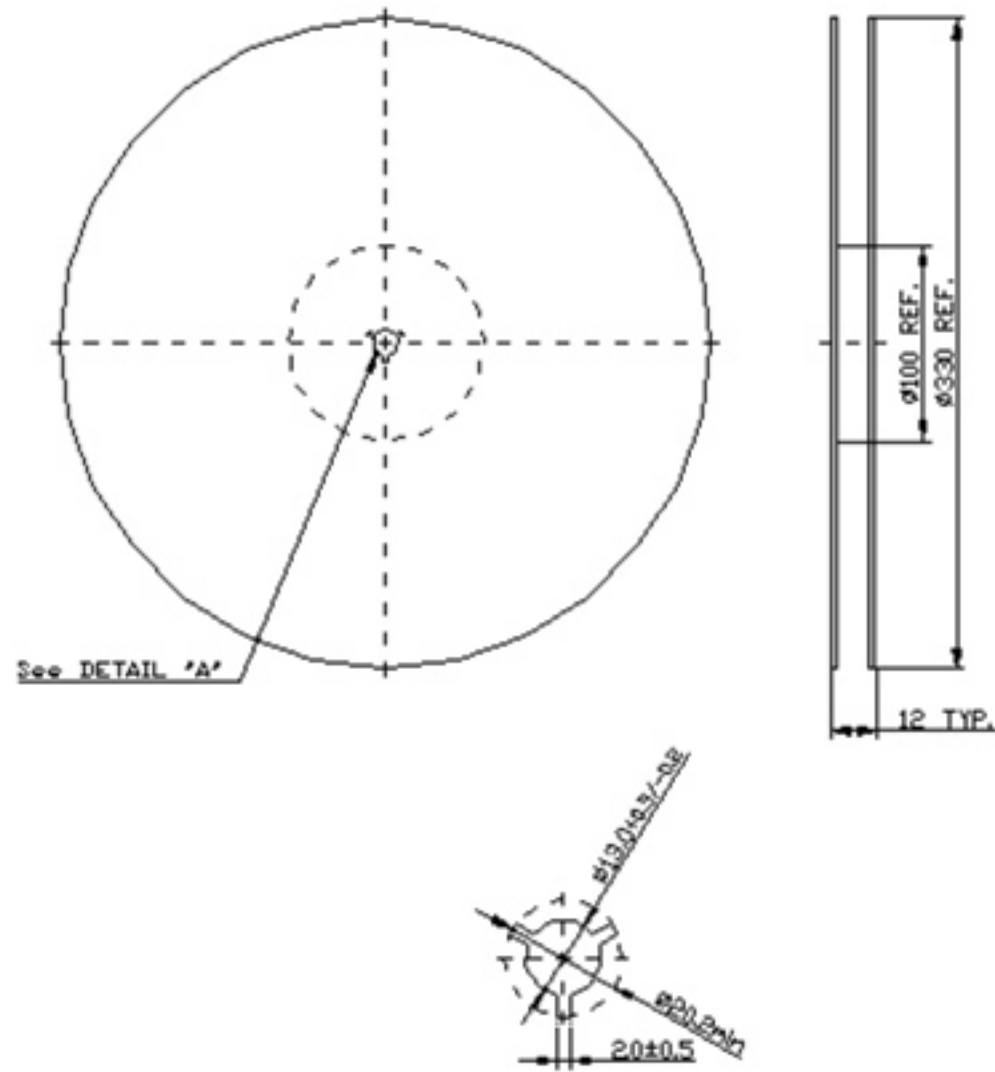
S22



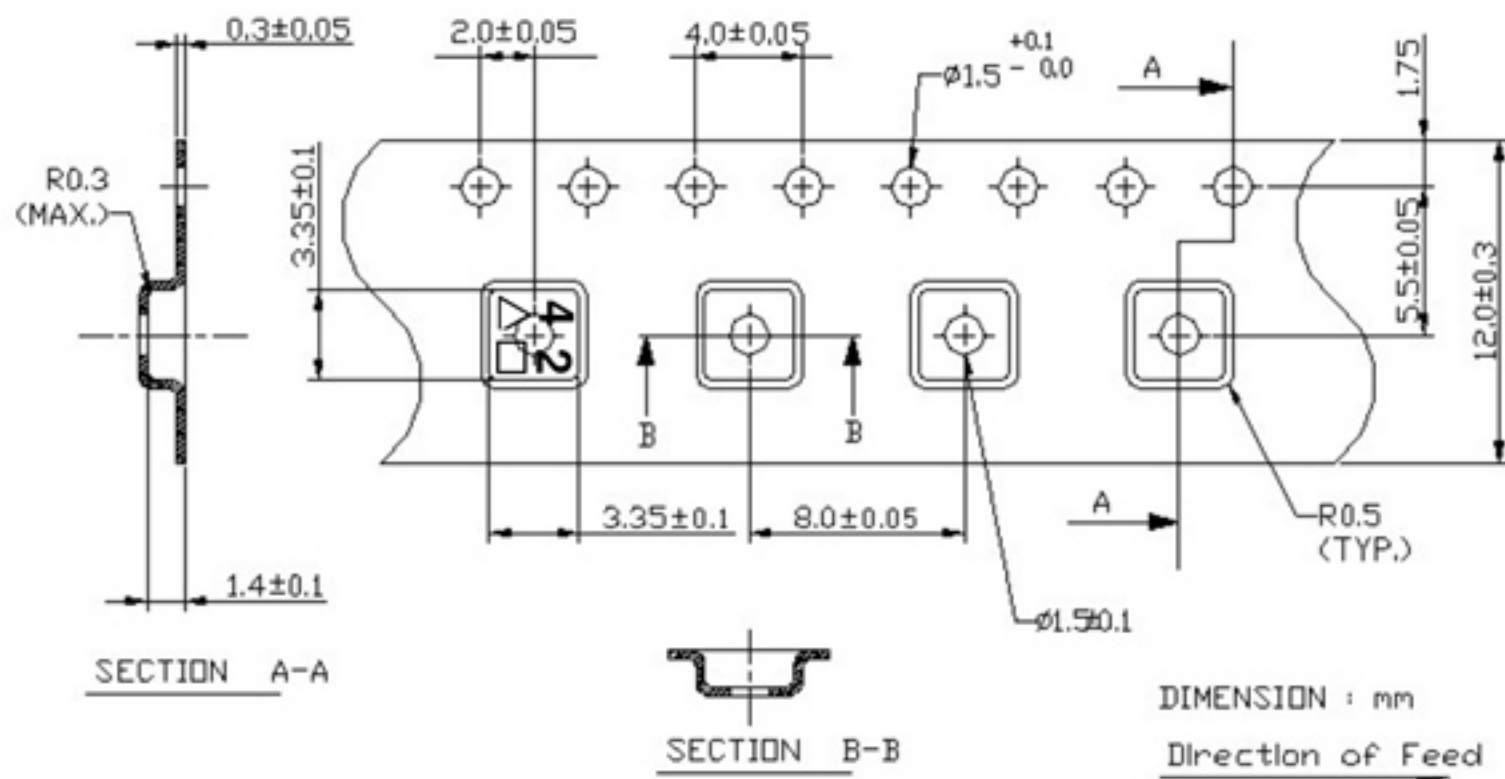
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7"=1000; 13"=3000)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

