SAW Filter 1278.75 MHz

MODEL NO.: TA1957B REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1(**MSL1**)

RoHS Compliant

Lead-free soldering

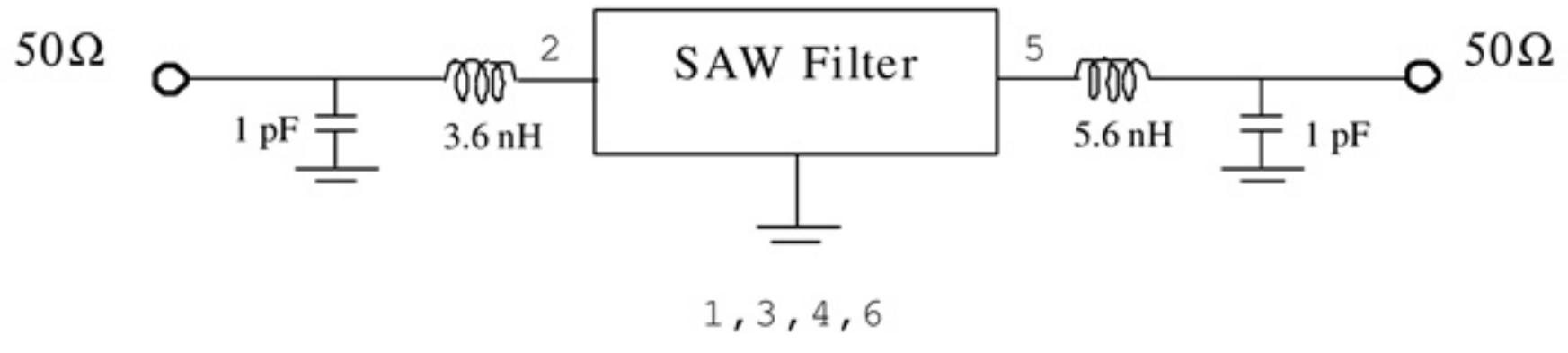
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

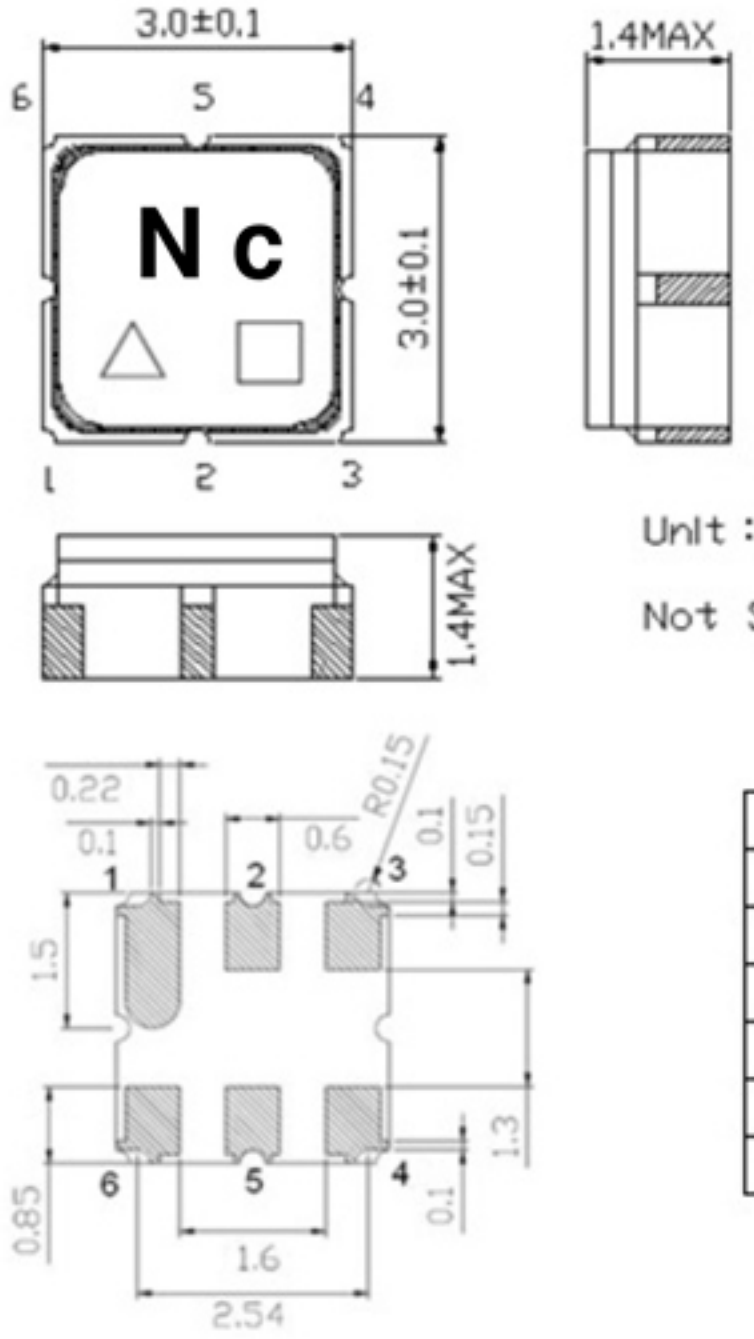
Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	1278.75	-
Insertion Loss (1251.25~1306.25 MHz)	**IL**	dB	-	2.4	5.0
Amplitude Ripple (1251.25~1306.25 MHz)		dB	-	0.8	2.5
Return Loss (1251.25~1306.25 MHz)		dB	6.0	12	-
Group Delay Variation (1251.25~1306.25 MHz)		ns	-	13	50
Attenuation (Reference level from 0 dB)					
10 ~ 1124 MHz		dB	30	33	-
1124 ~ 1214 MHz		dB	24	27	-
1343 ~ 1348 MHz		dB	25	29	-
1348 ~ 1434 MHz		dB	25	29	-
1434 ~ 1650 MHz		dB	30	32	-
1650 ~ 3000 MHz		dB	25	29	-
Temperature coefficient of frequency		ppm/℃	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm

Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

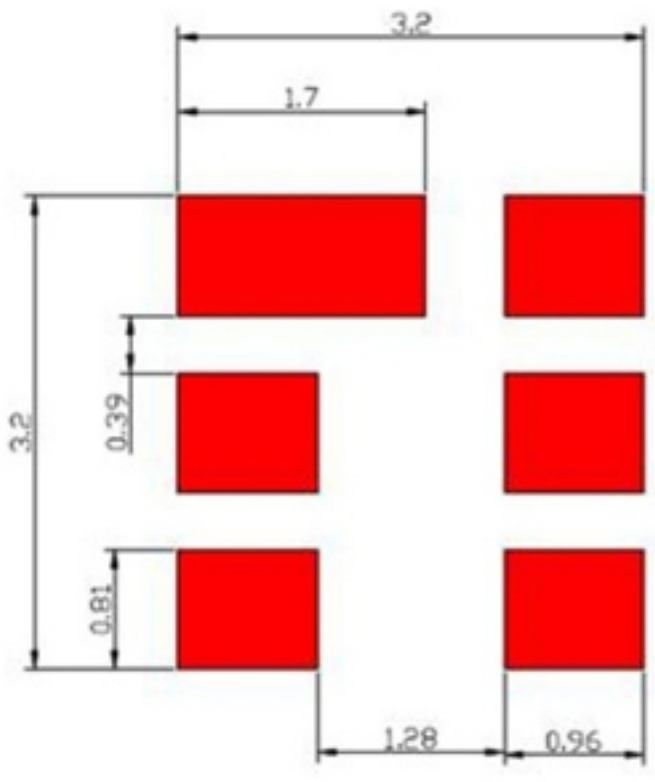
△ : Year Code (2011->1, 2012->2, ... , 2019->9, 2020->0)

□ : Date Code

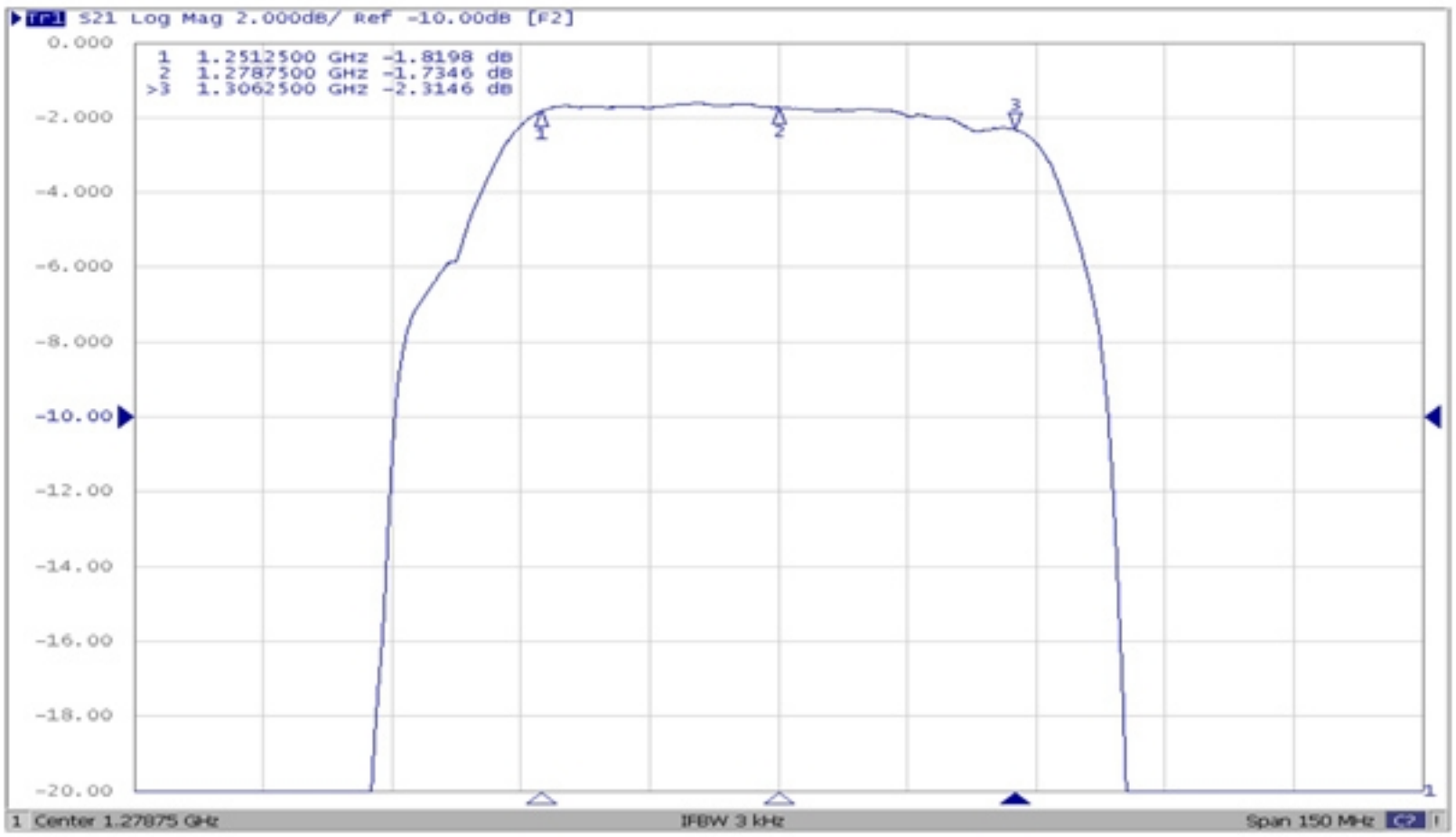
Date Code Table:

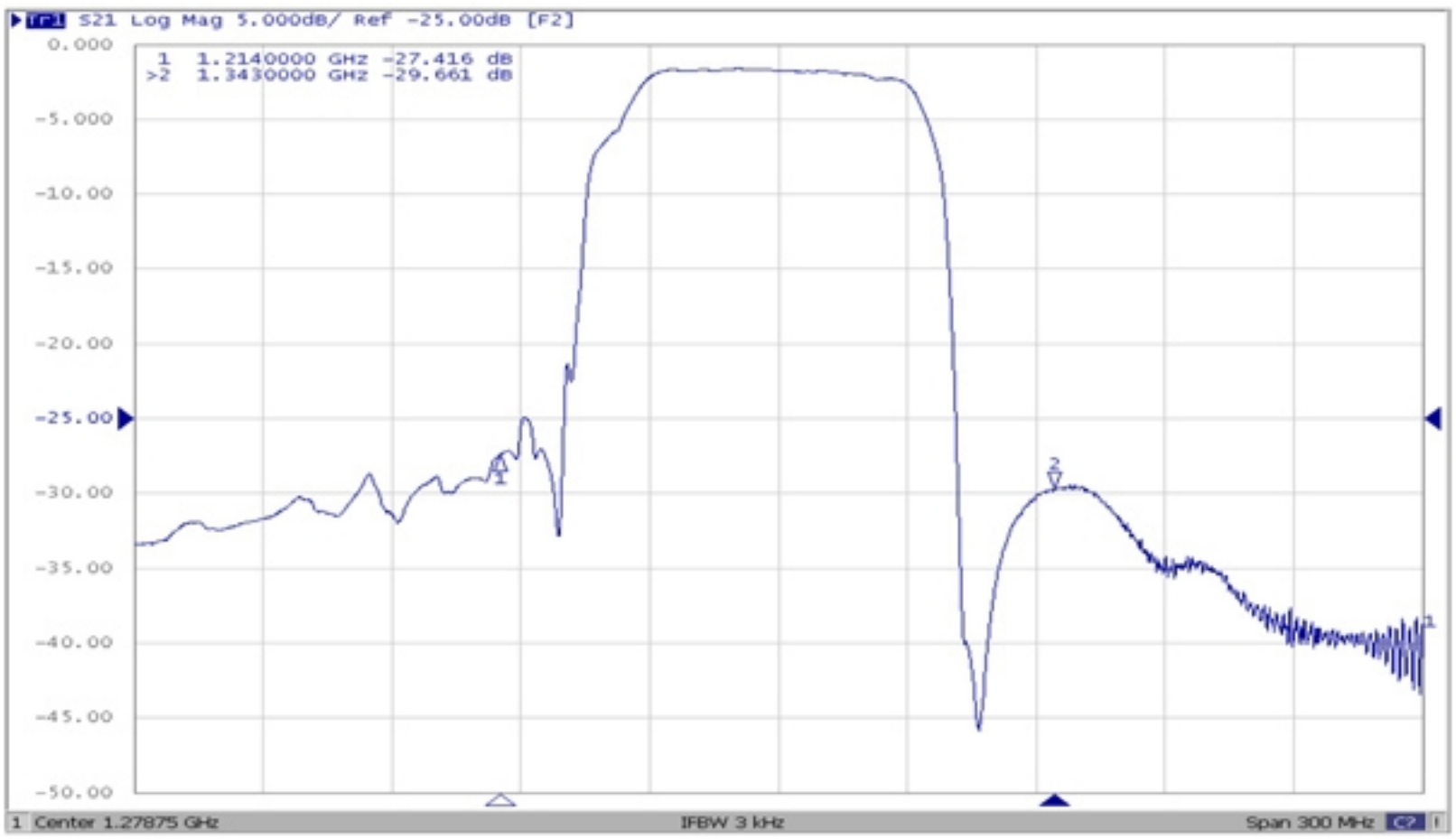
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

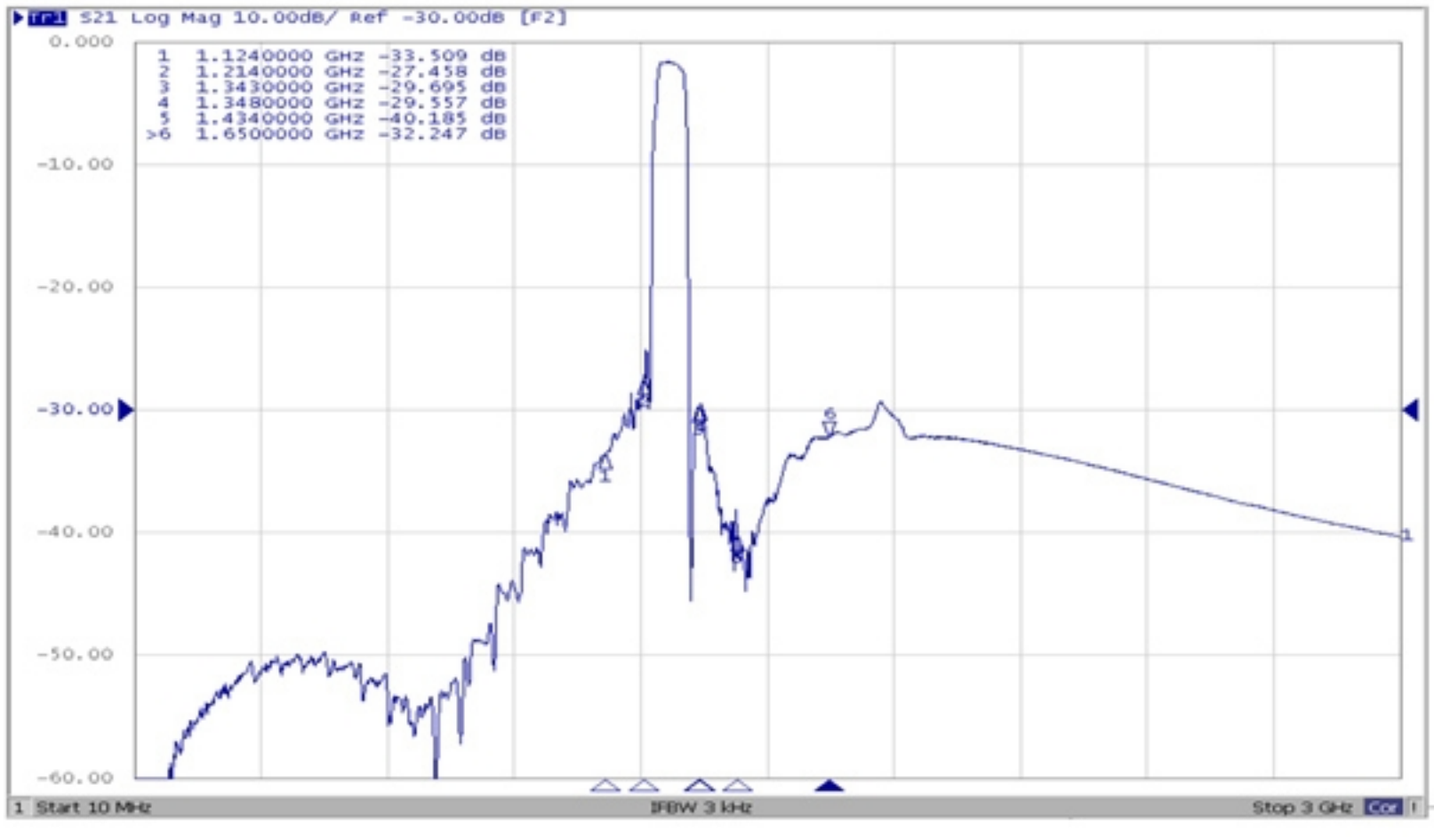
E. PCB Footprint:



F. Frequency Characteristics:

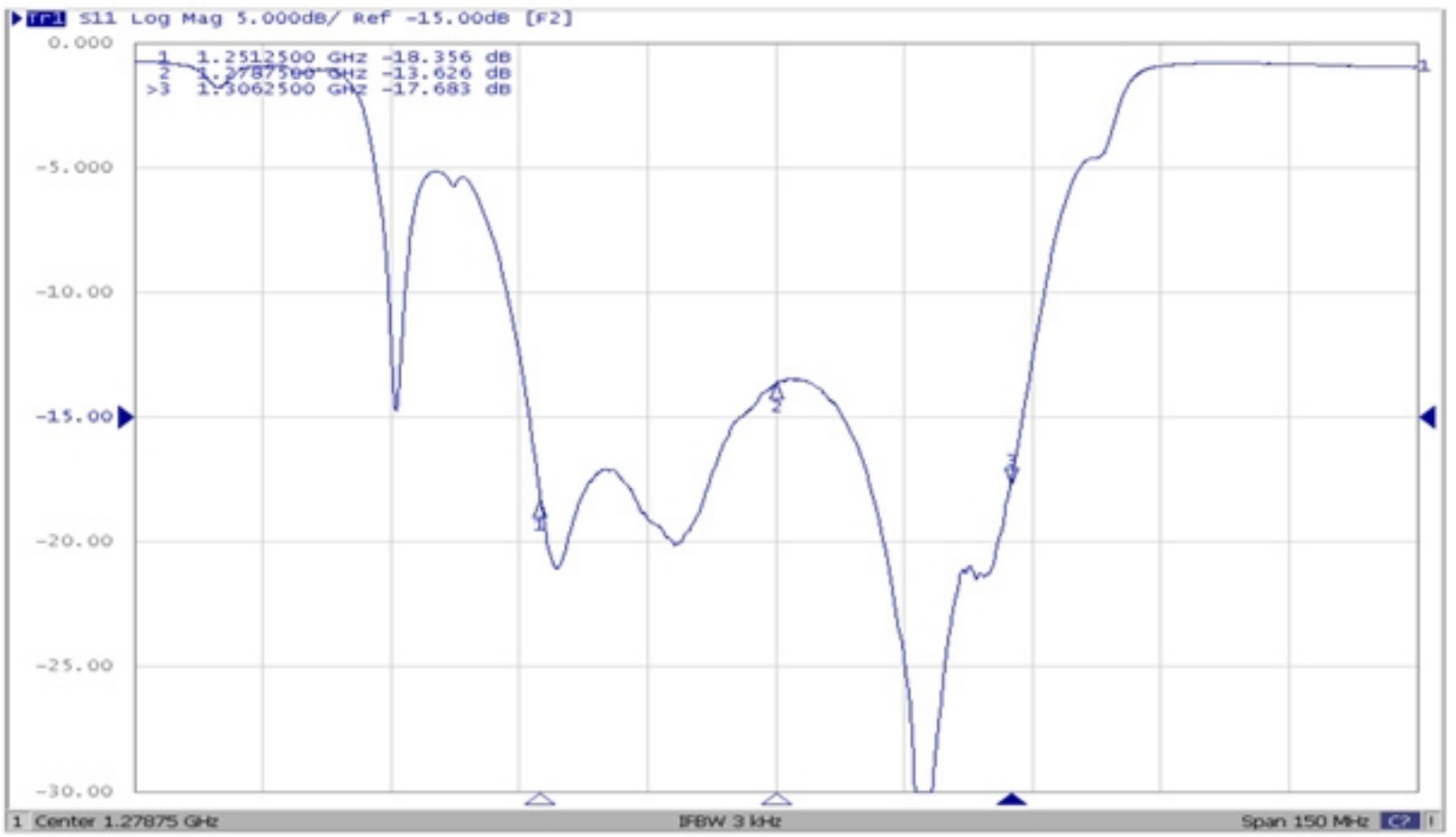




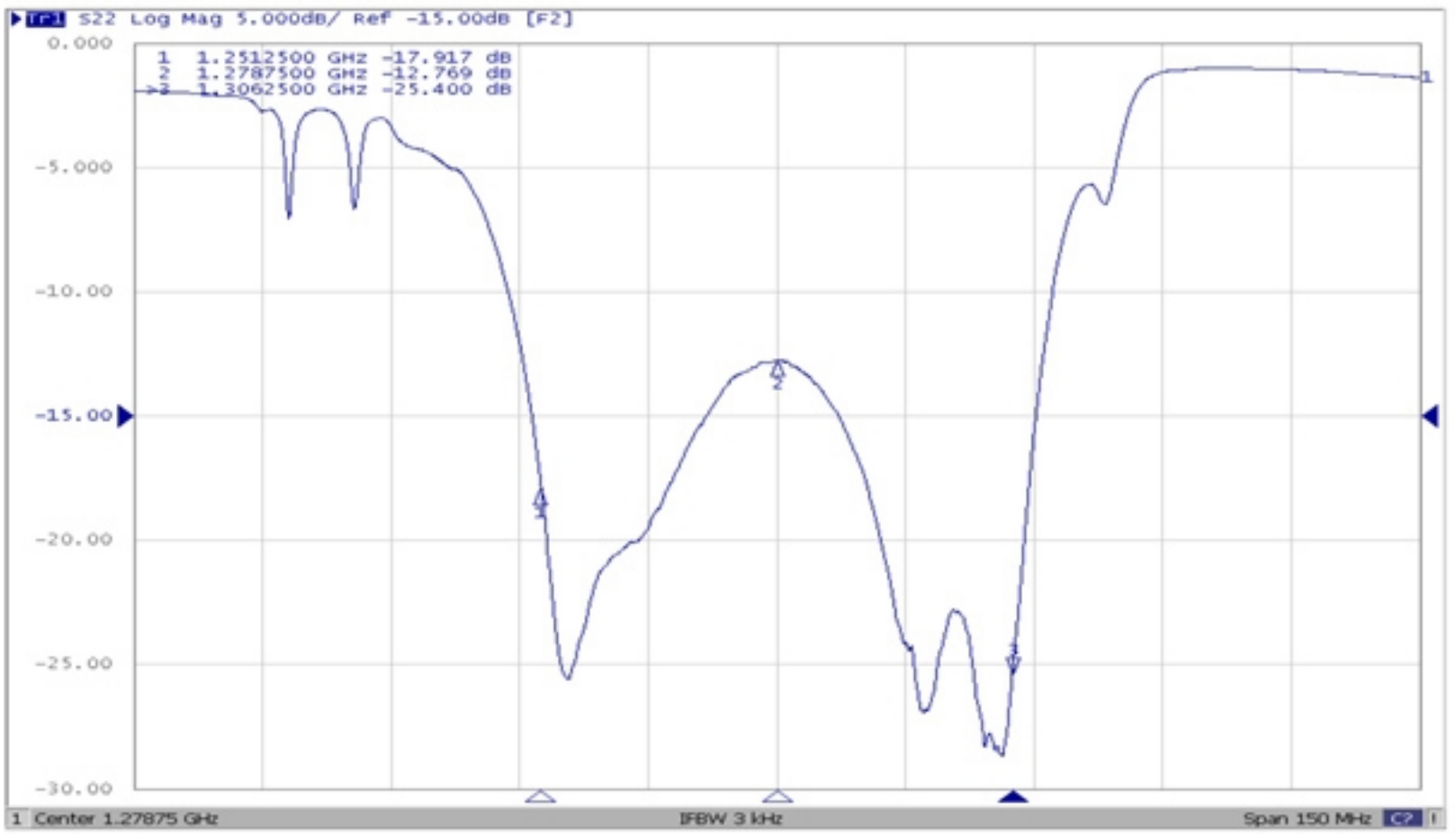


Reflection Functions:

S11



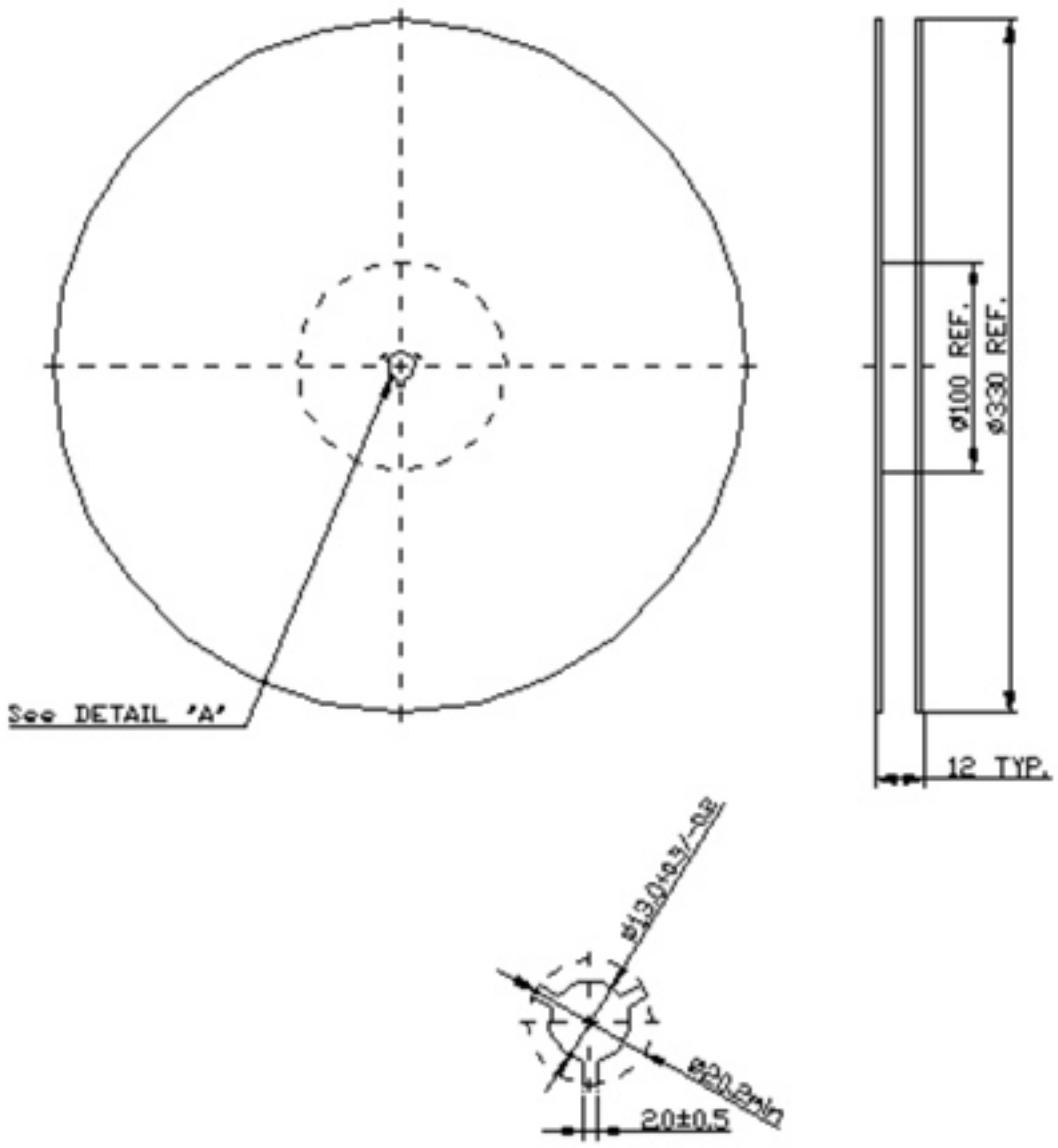
S22



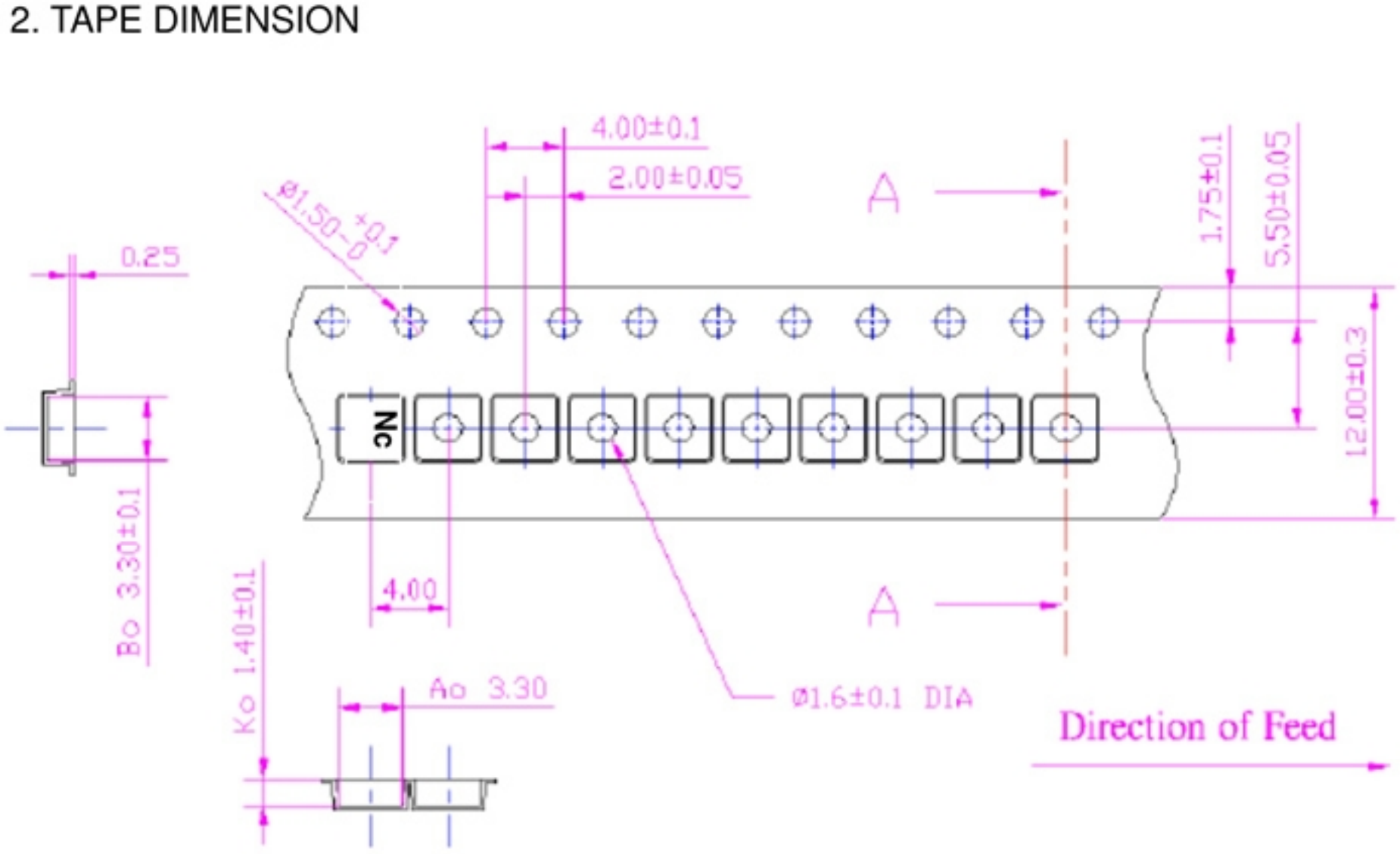
G. PACKING:

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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.