

SAW Filter 447.5 MHz

MODEL NO.:TA1960A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: 0 °C to +60 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant
Lead free
Lead-free soldering

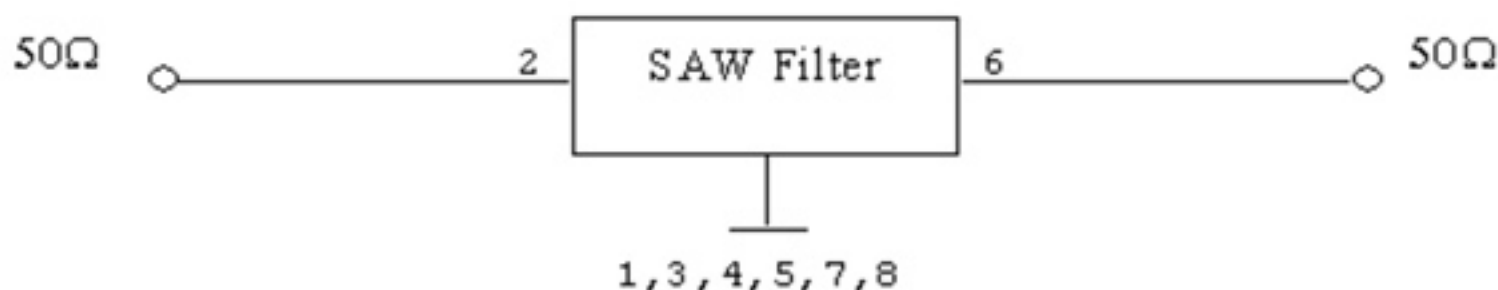
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

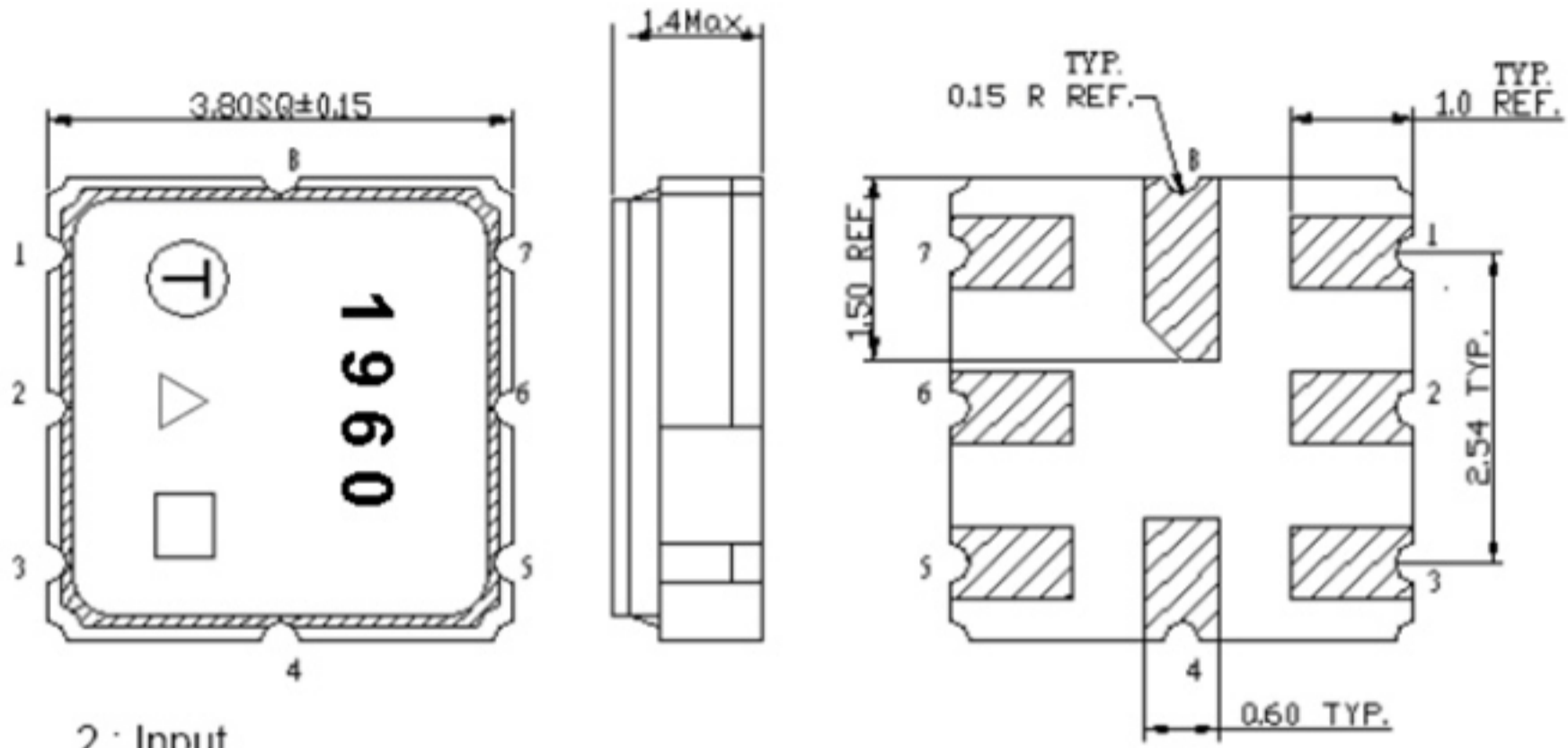
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	447.5	-
Insertion Loss (440~455 MHz) IL	dB	-	3.0	3.5
Amplitude ripple (440~455 MHz)	dB	-	20.	2.5
Attenuation (Reference level from 0)				
10 ~ 420 MHz	dB	30	35	-
460 ~ 465 MHz	dB	30	35	
465 ~ 480 MHz	dB	35	40	
480 ~ 1000 MHz	dB	35	40	
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



- 2 : Input
- 6: Output
- 1,3,4,5,7,8: Ground
- △ : Year Code
- : Date Code (W01->A, W02->B, ..., W52->z)

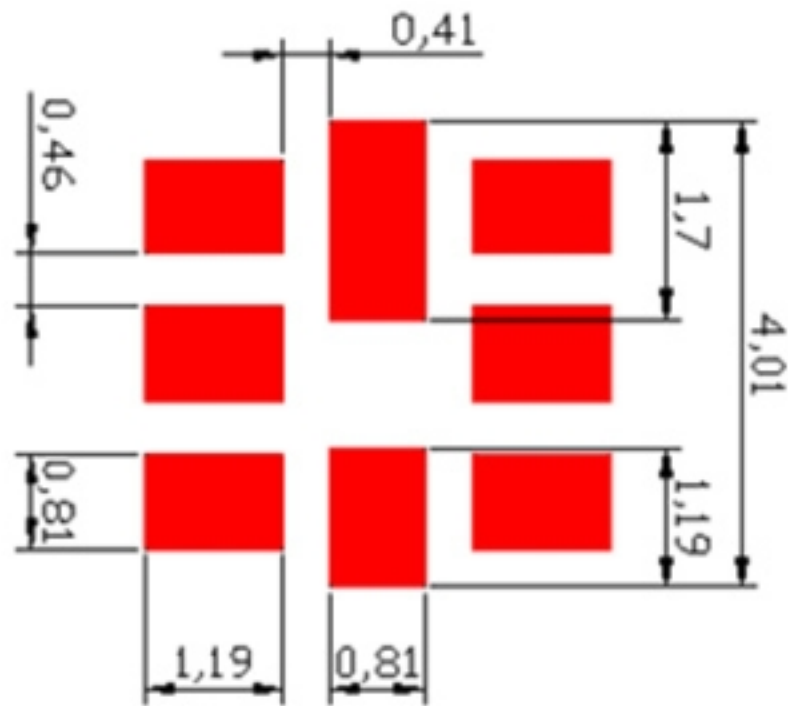
Date Code Table

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

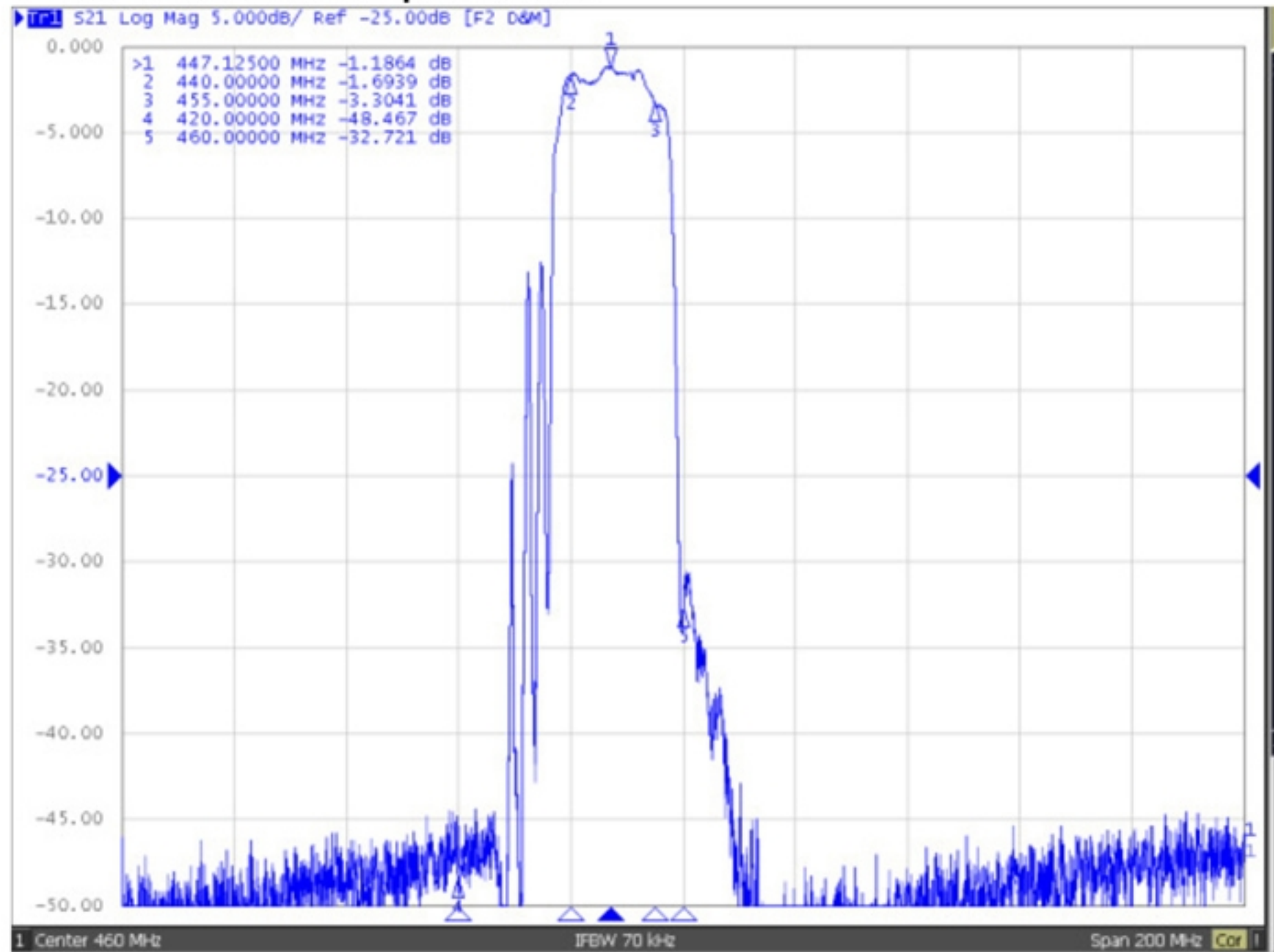
△ Year code : See the table

Year	2011	2012
	:	:
	:	:
	2019	2020
Year Code	A	a

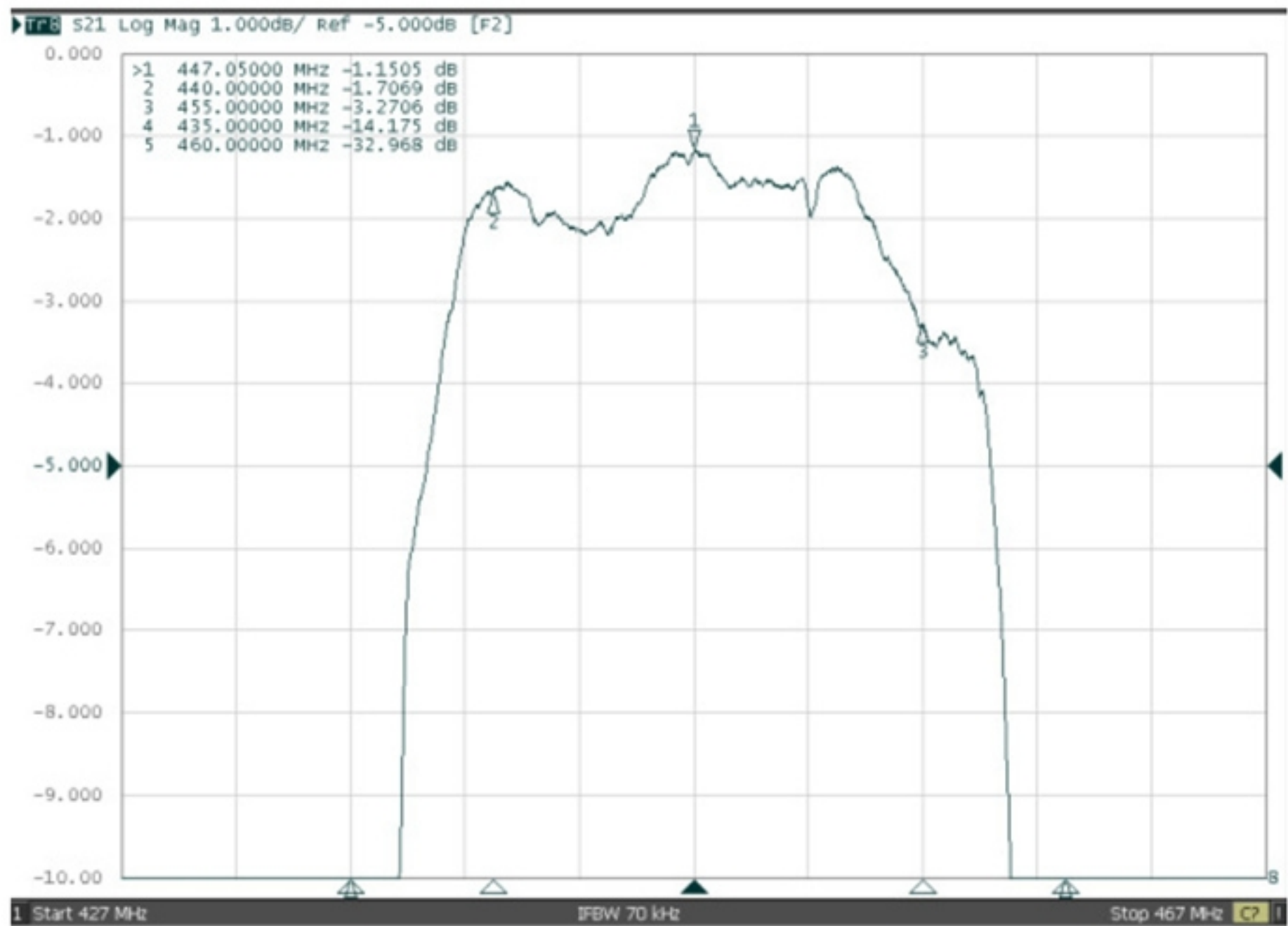
E. PCB Footprint:



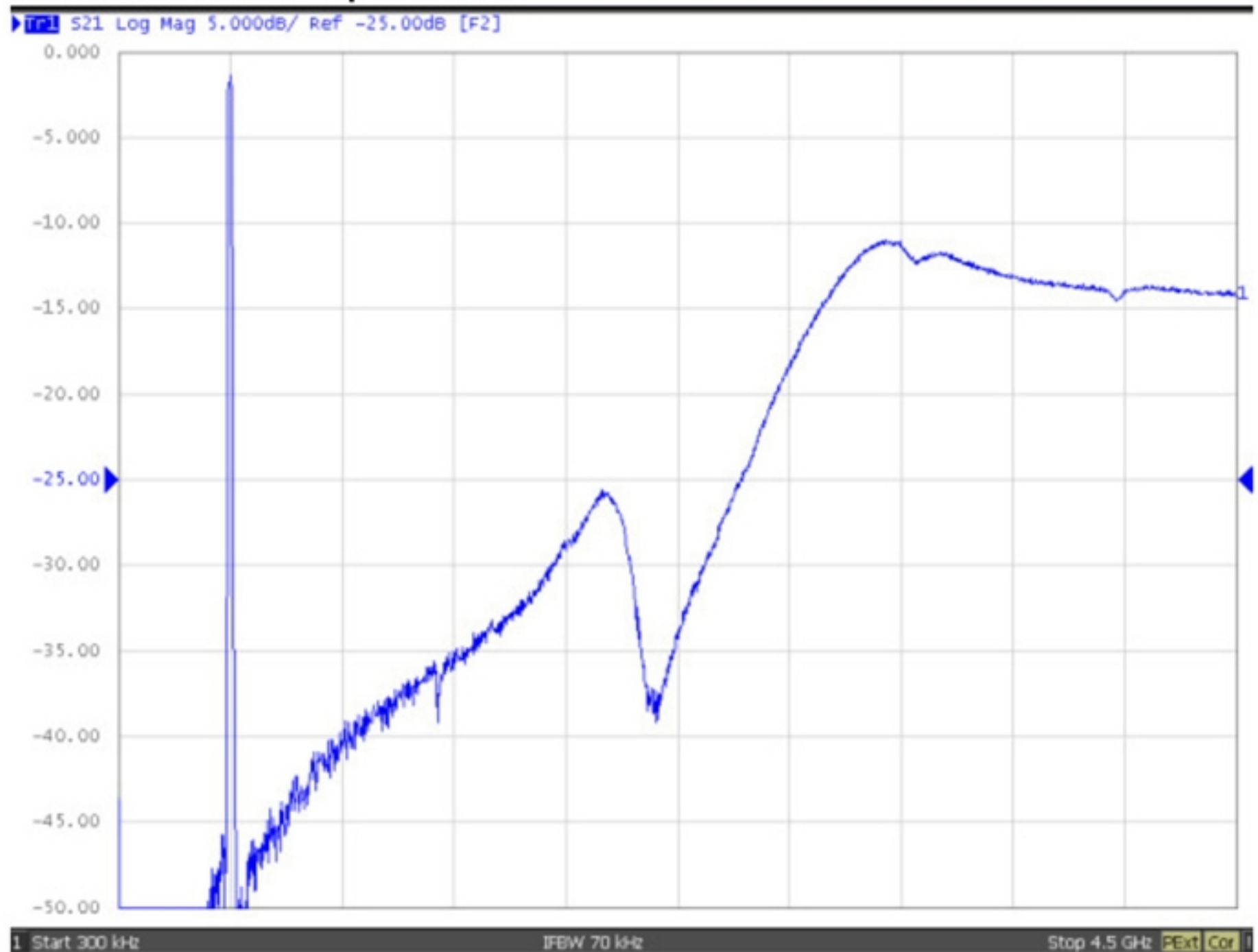
F. Frequency Characteristics:
1 - S21 Measurement : Span 200MHz



S21 Measurement : Span 40MHz



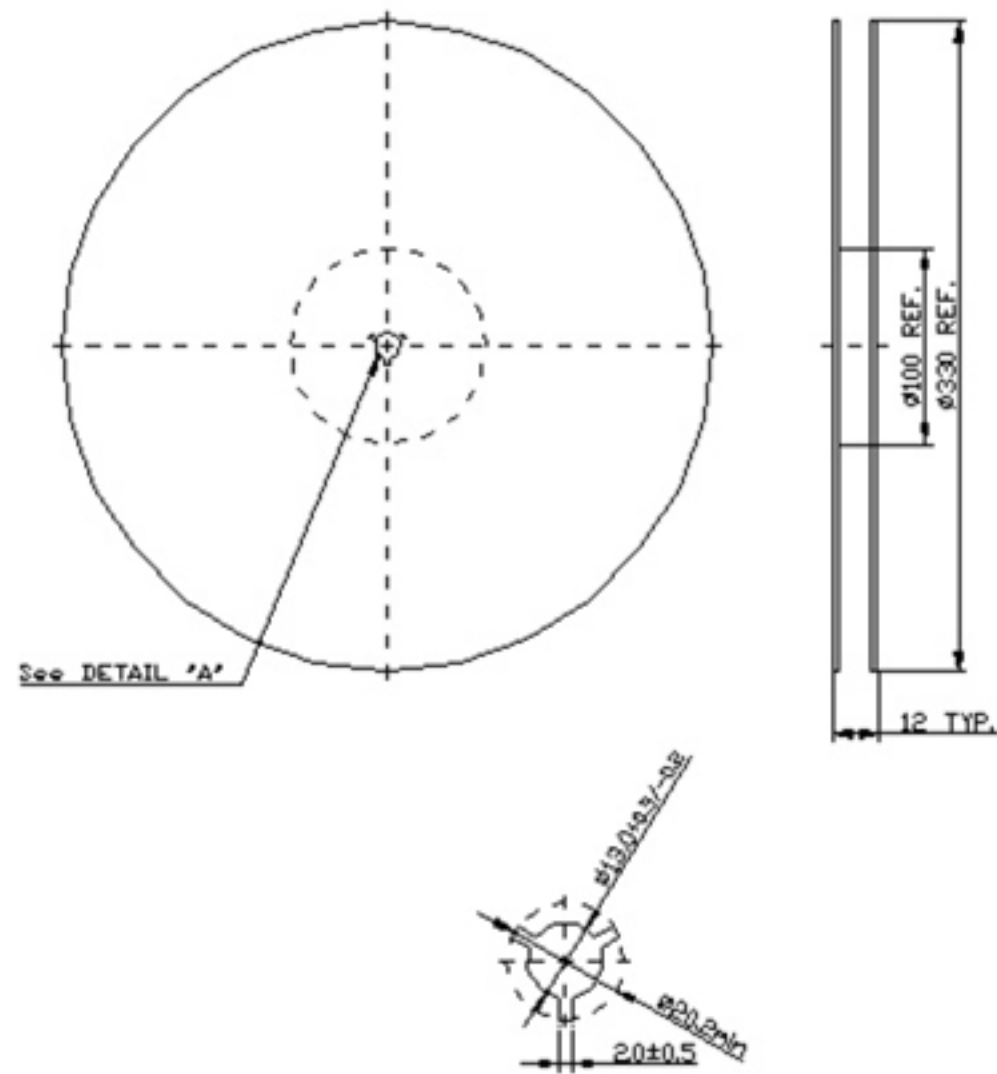
S21 Measurement : Span 4.5GHz



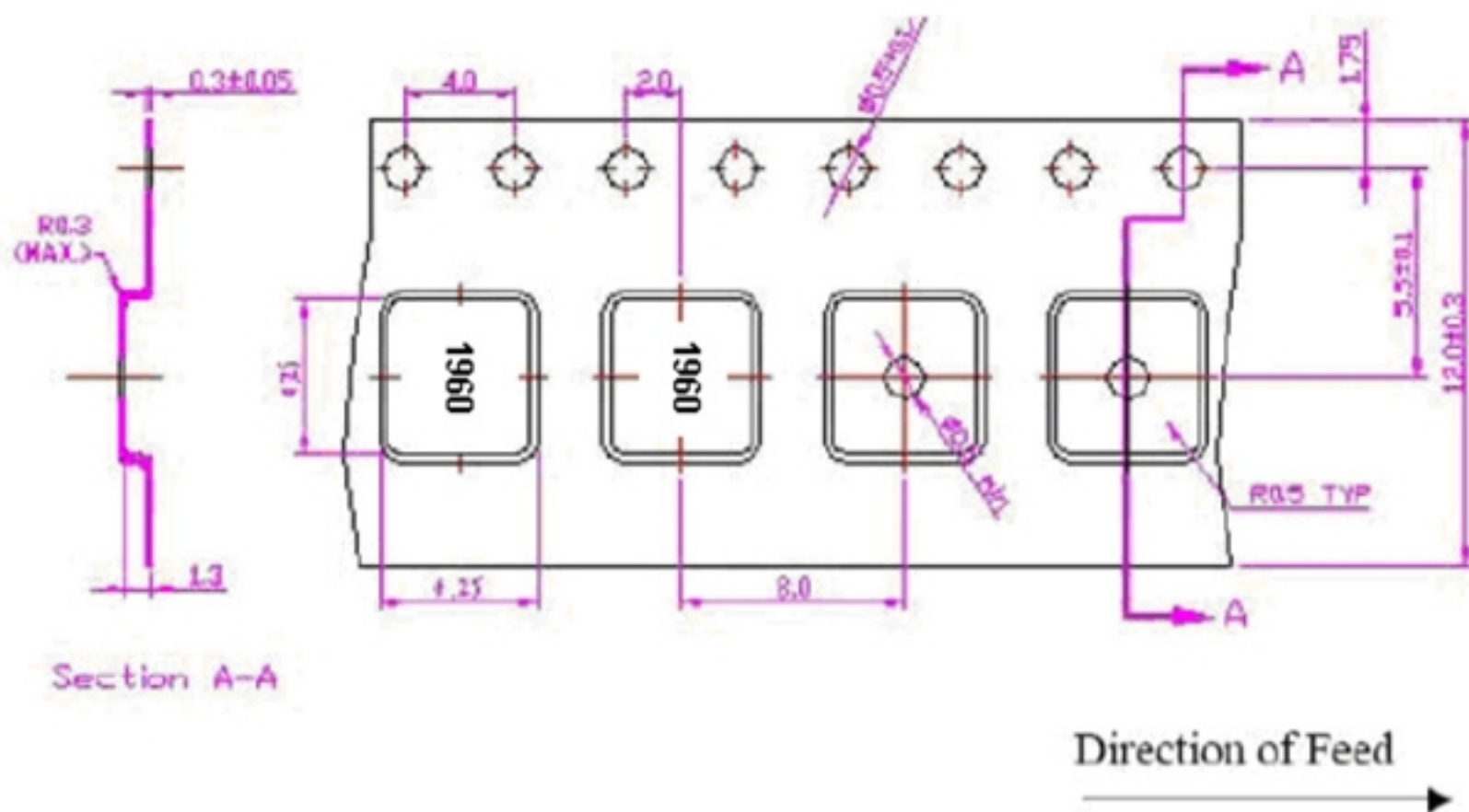
G. PACKING:

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°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 260°C+0/-5°C peak(20~40sec).

4. Time: 2 times.

