SAW Filter 427.8 MHz

MODEL NO.: TA0577A REV. NO.:2

RoHS Compliant
Lead free
Lead-free soldering

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

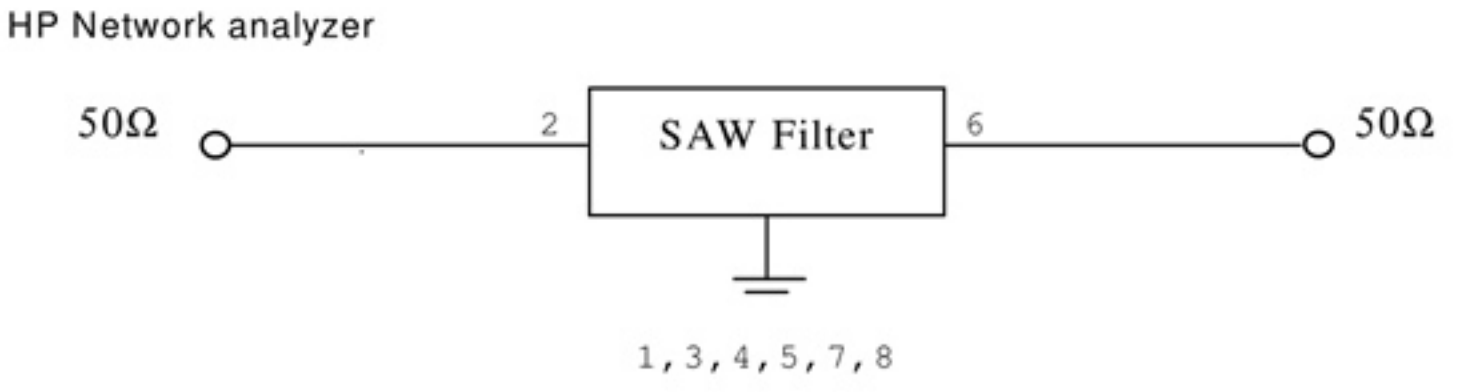
A. MAXIMUM RATING:

1.Input Power Level: 10 dBm
2.DC voltage: 3 V
3.Operating Temperature: -15°C to +35°C
4.Storage Temperature: -30°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

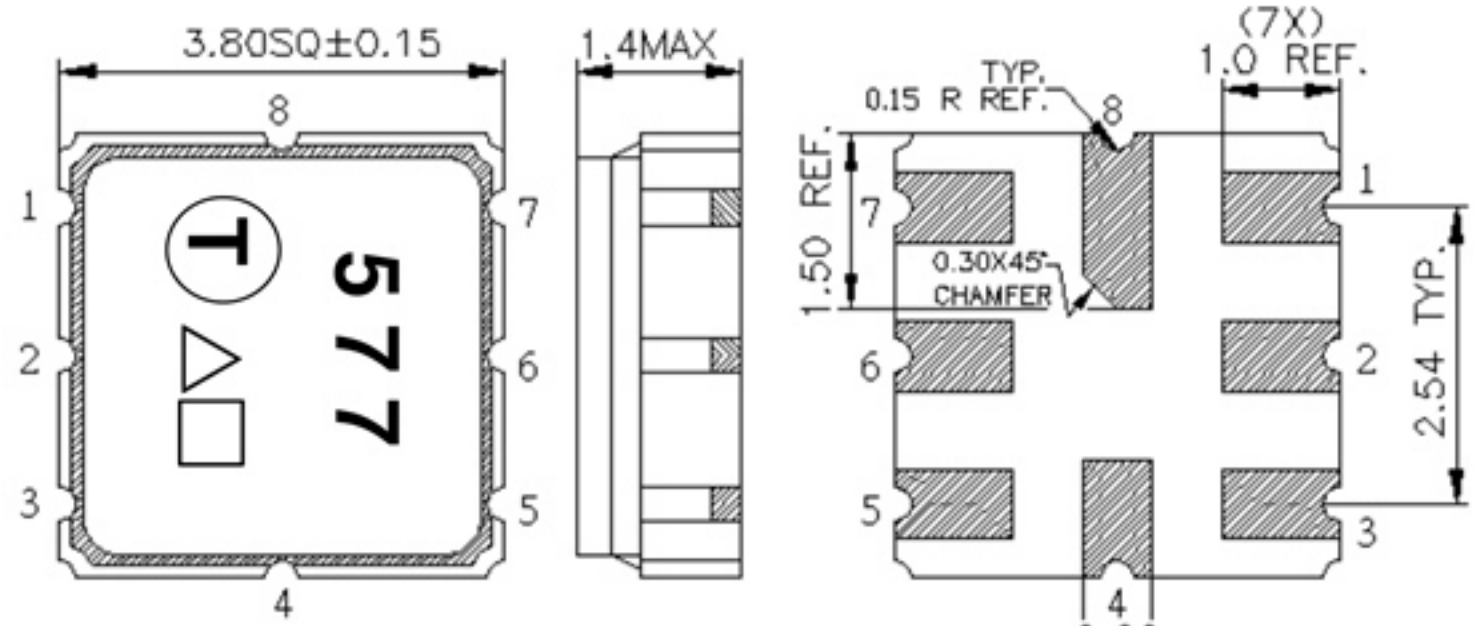
B. ELECTRICAL CHARACTERISTICS:

Item		Unit	Min.	Typ.	Max.
Center frequency	**Fo**	MHz	-	428	-
Insertion Loss (425.3~430.3 MHz)		dB	-	2	3.6
Amplitude Ripple (425.3~430.3 MHz)		dB	-	0.5	2.1
Attenuation (Reference level from 0 dB)					
1 ~ 391 MHz		dB	40	68	-
391 ~ 406.5 MHz		dB	31	66	-
406.5 ~ 417.9 MHz		dB	10	48	-
461 ~ 481 MHz		dB	35	65	-
481 ~ 555 MHz		dB	40	64	-
Input/Output VSWR (425.3~430.3 MHz)			-	1.3	2.2
Source impedance	Zs	Ω	-	50	-
Load impedance	Z_L	Ω	-	50	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



Marking name :577

△ : year code

This table is two-year cycle (ex: Year 2025, △will show "A")

2 : Input

6: Output

1,3,4,5,7,8: Ground

□ : Date Code

Unit: mm

Product Year Code

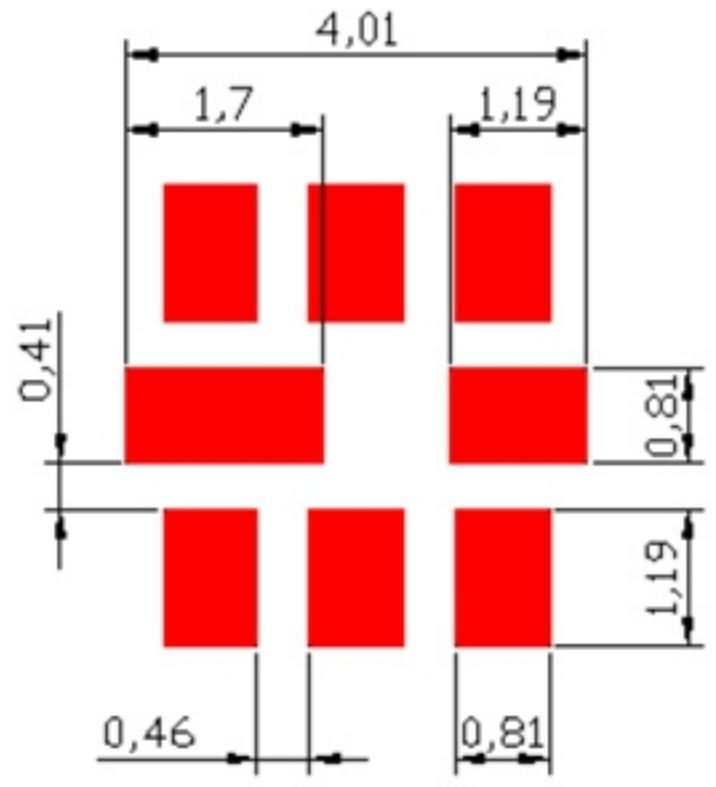
Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	A	a	A	a

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

Date Code Table

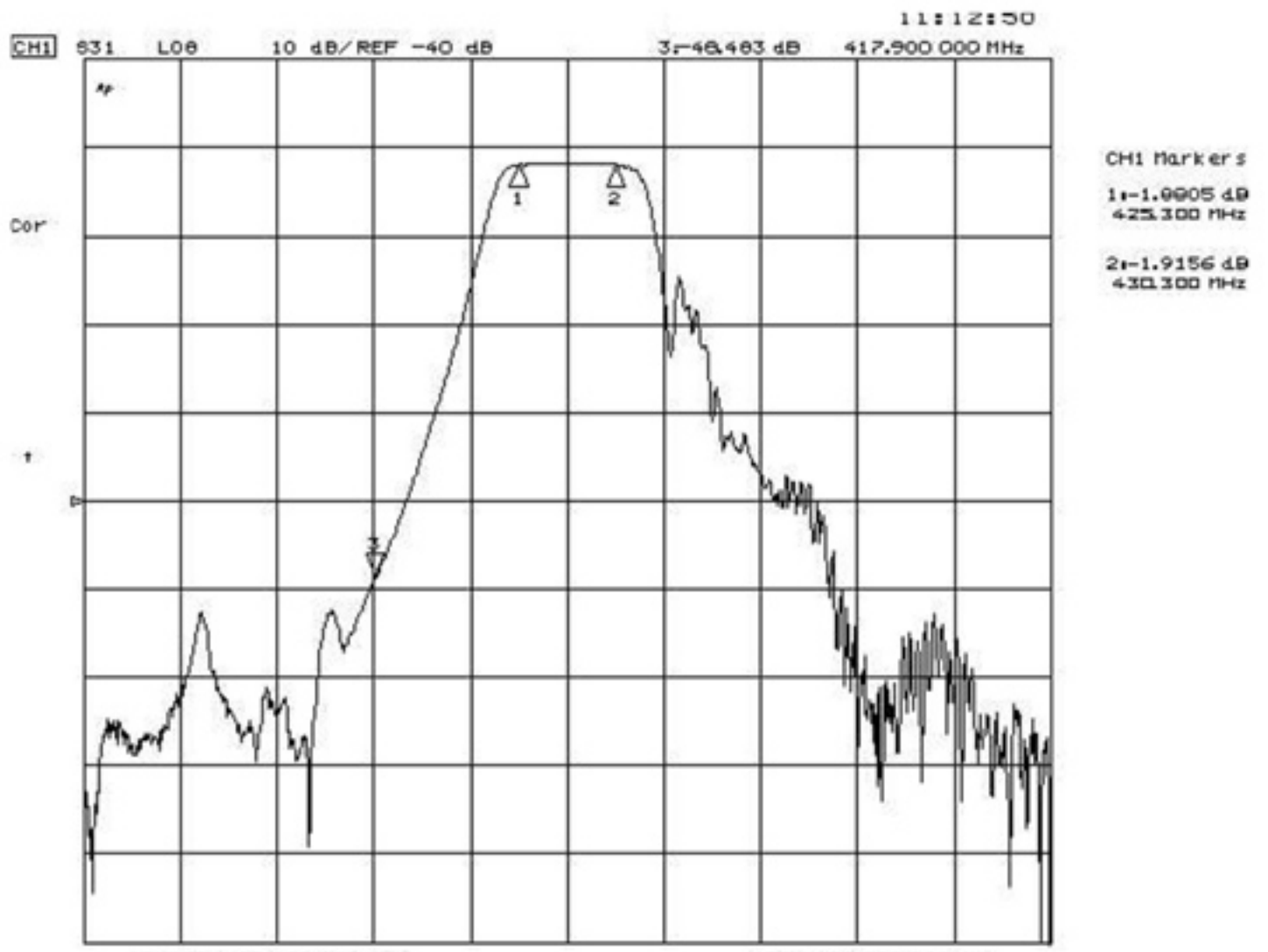
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	**WK15**	**WK16**	**WK17**	**WK18**	**WK19**	**WK20**	**WK21**	**WK22**	**WK23**	**WK24**	**WK25**	**WK26**
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	**WK28**	**WK29**	**WK30**	**WK31**	**WK32**	**WK33**	**WK34**	**WK35**	**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

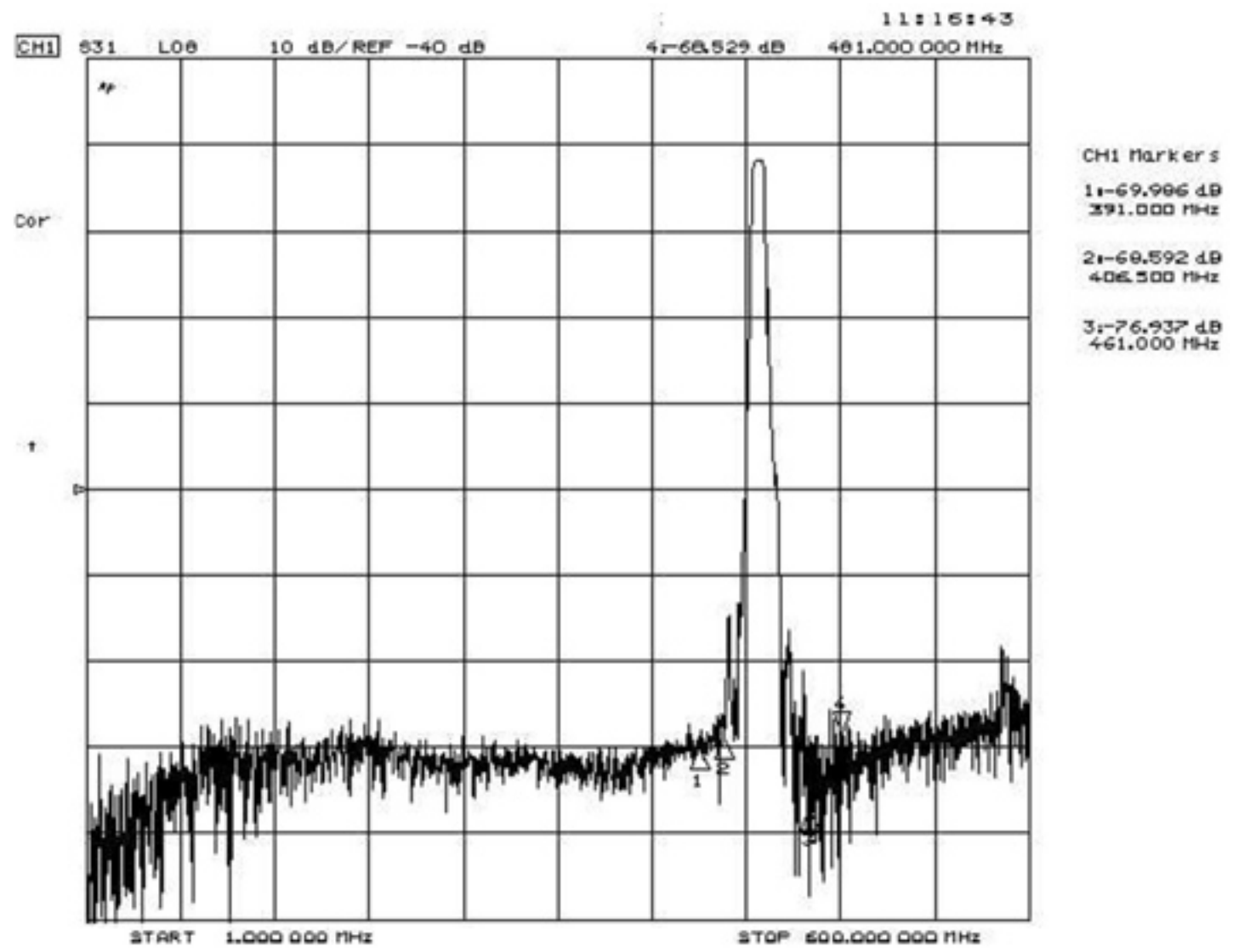
E. PCB Footprint:



F. Frequency Characteristics :

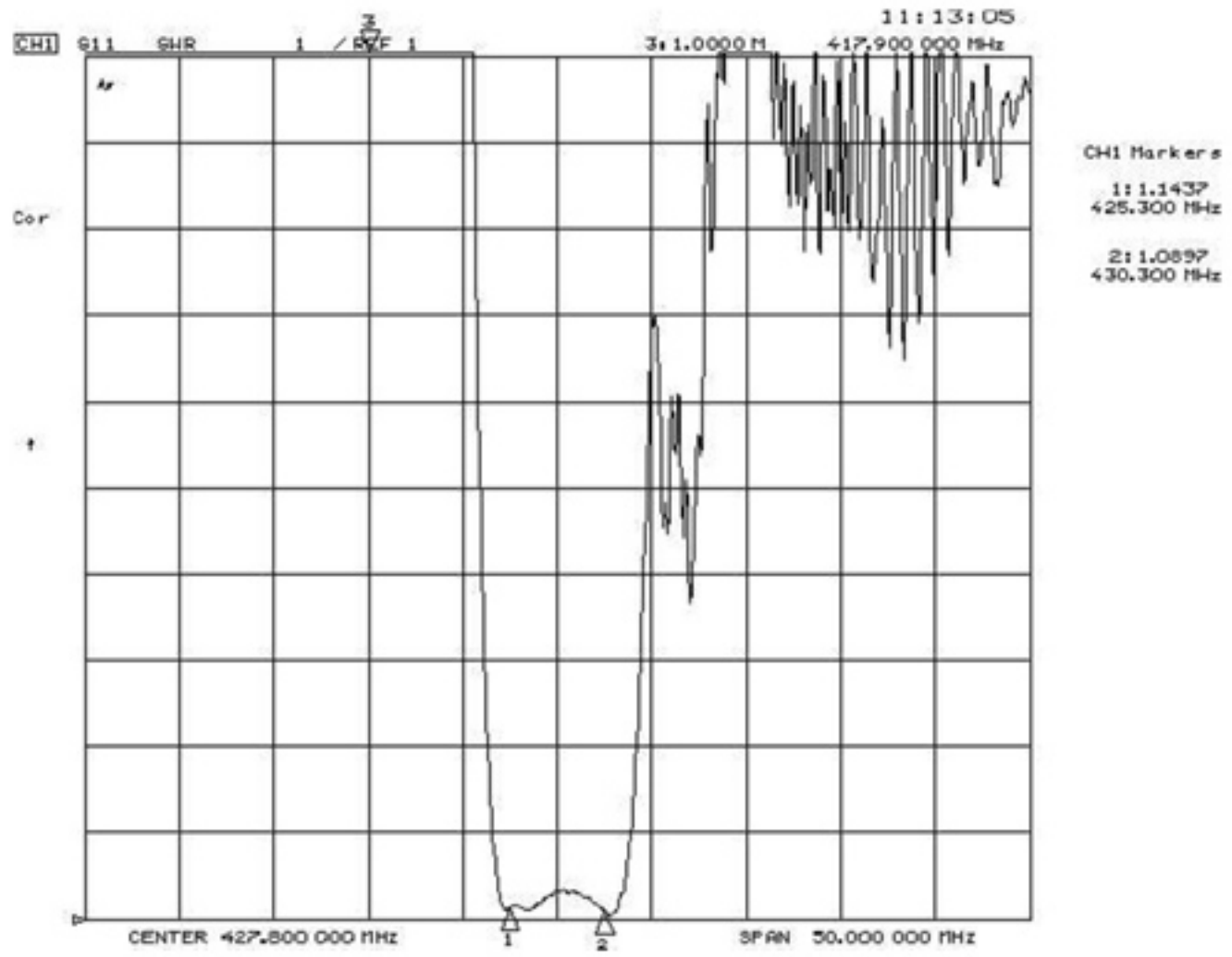
Transfer function



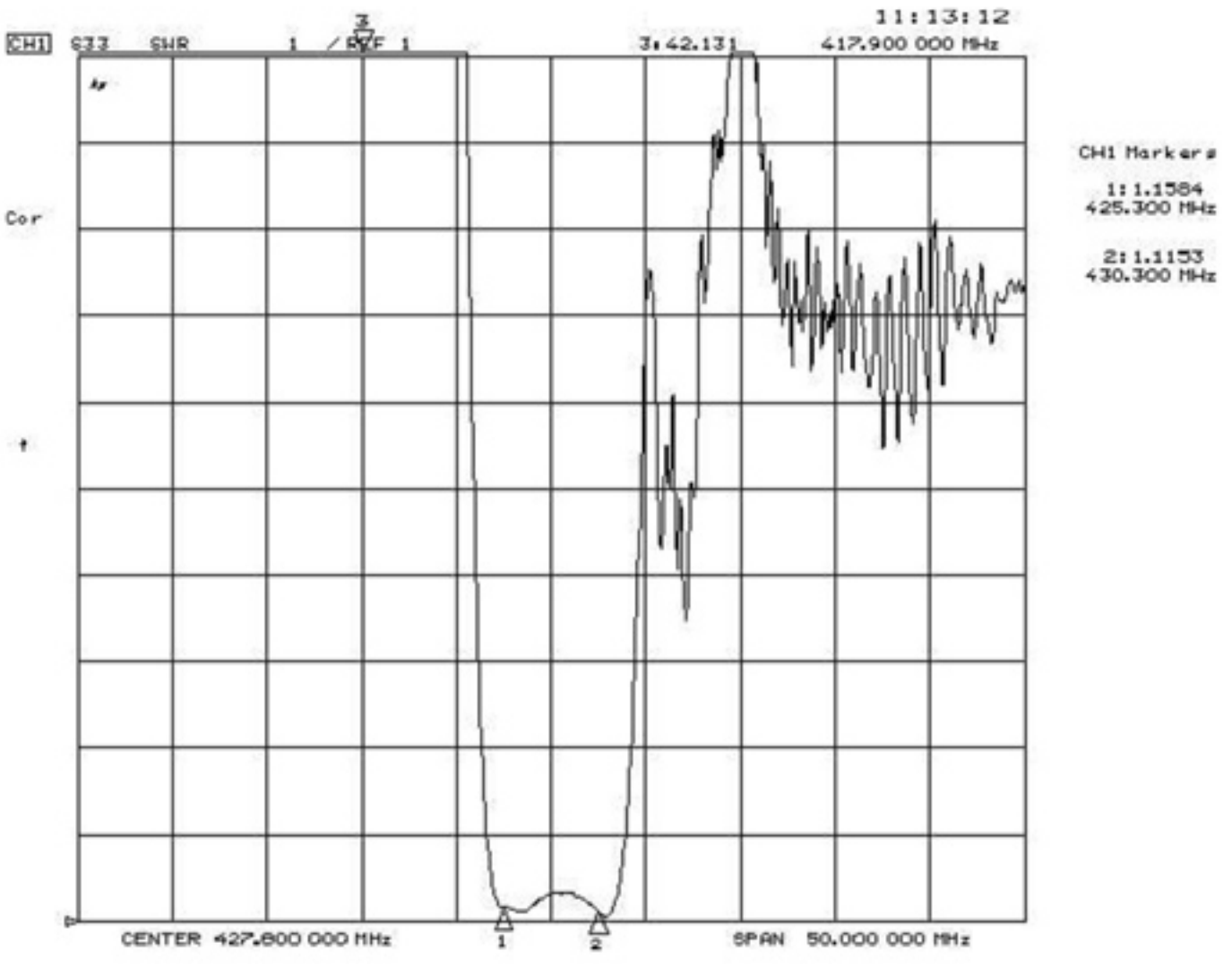


Reflections Functions :

S11 VSWR



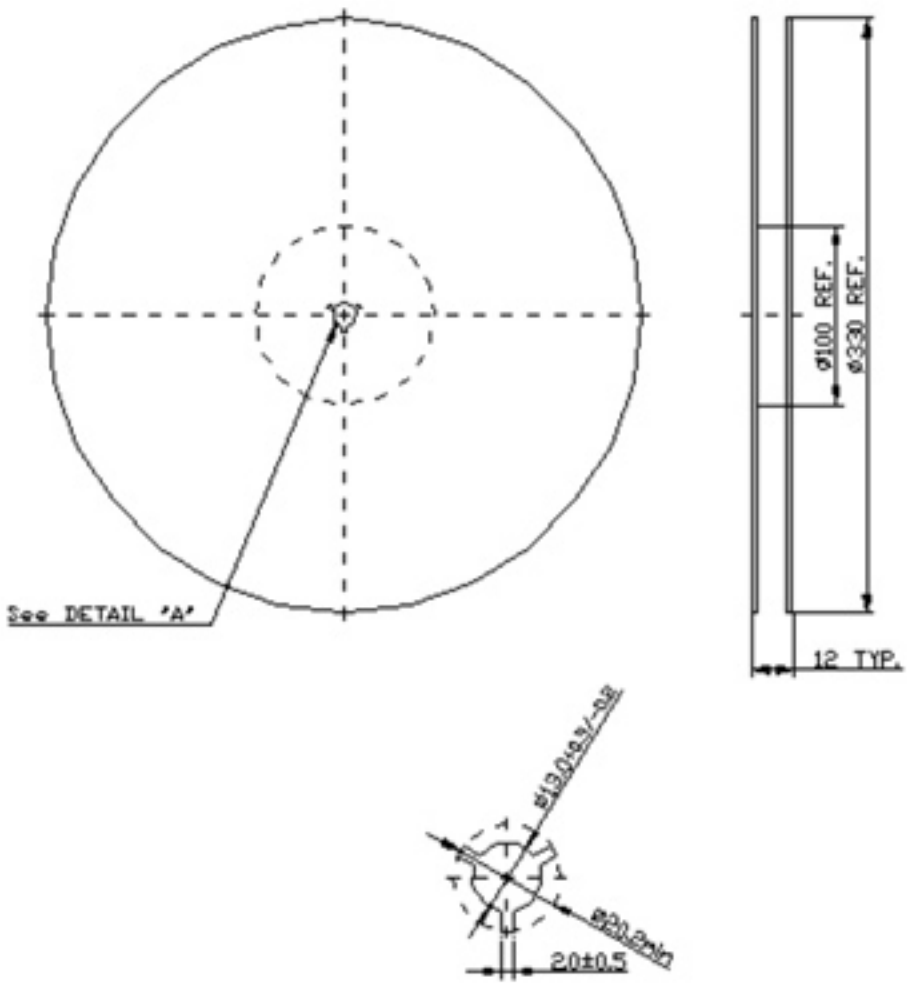
S22 VSWR



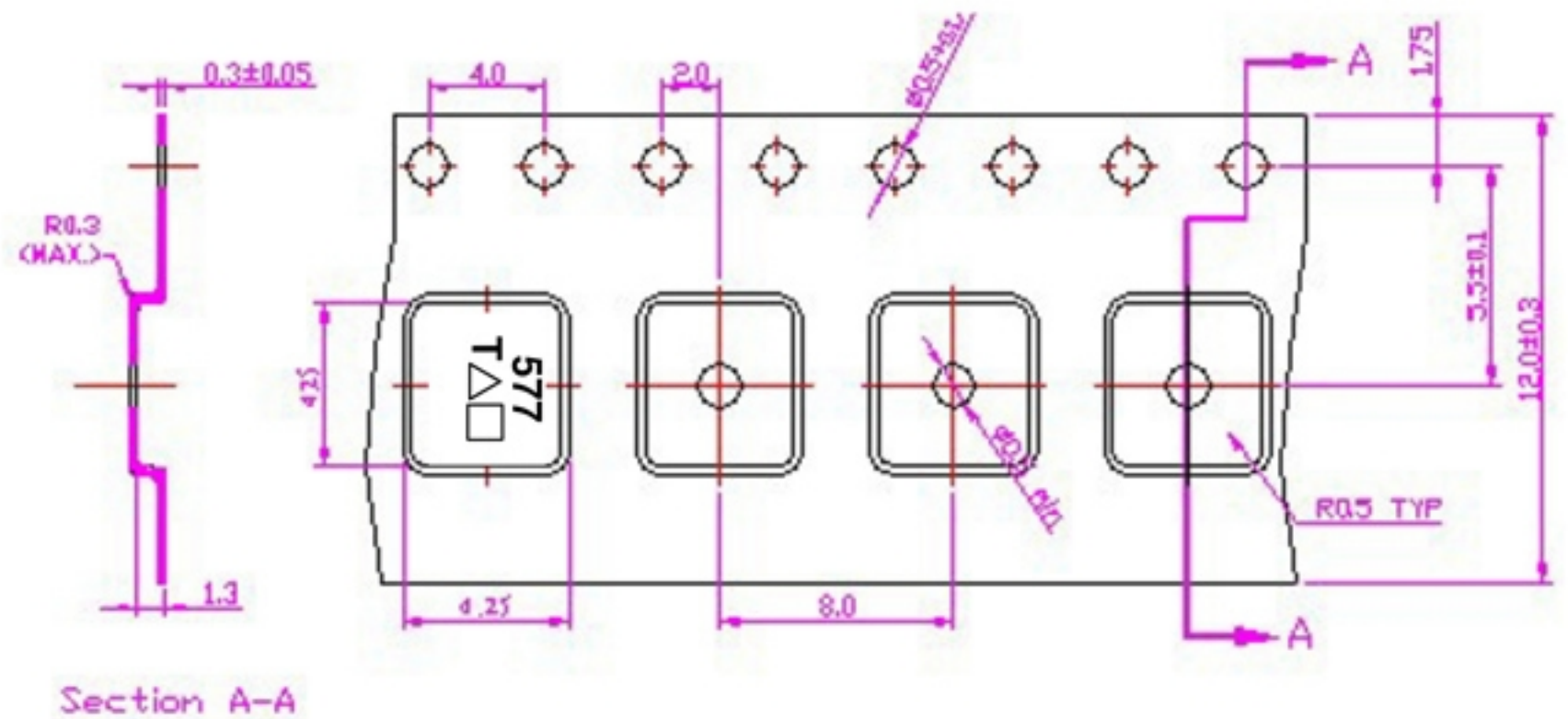
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



Direction of Feed

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.