SAW Filter 319.5 MHz

MODEL NO.: TA2651A Rev. NO. 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 12 V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant

Lead-free soldering

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

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	319.42	319.5	319.58
Minimum Insertion loss IL (min)	dB		2.2	2.8
3dB BW	MHz	0.5	0.6	0.8
Attenuation (Reference level from IL (min)**)**				
Fc-10.7 MHz	dB	40	50	
Fc-21.4MHz	dB	40	50	-
Turnover Temperature	℃	25	40	55
Temperature Coefficient of Frequency	ppm/℃^{2}	-	-0.032	-
Input $Z_{in} = R_{in} // C_{in}$		3.97KΩ // 4.37pF		
Output $Z_{out} = R_{out} // C_{out}$		2.56-KΩ // 4.27pF		

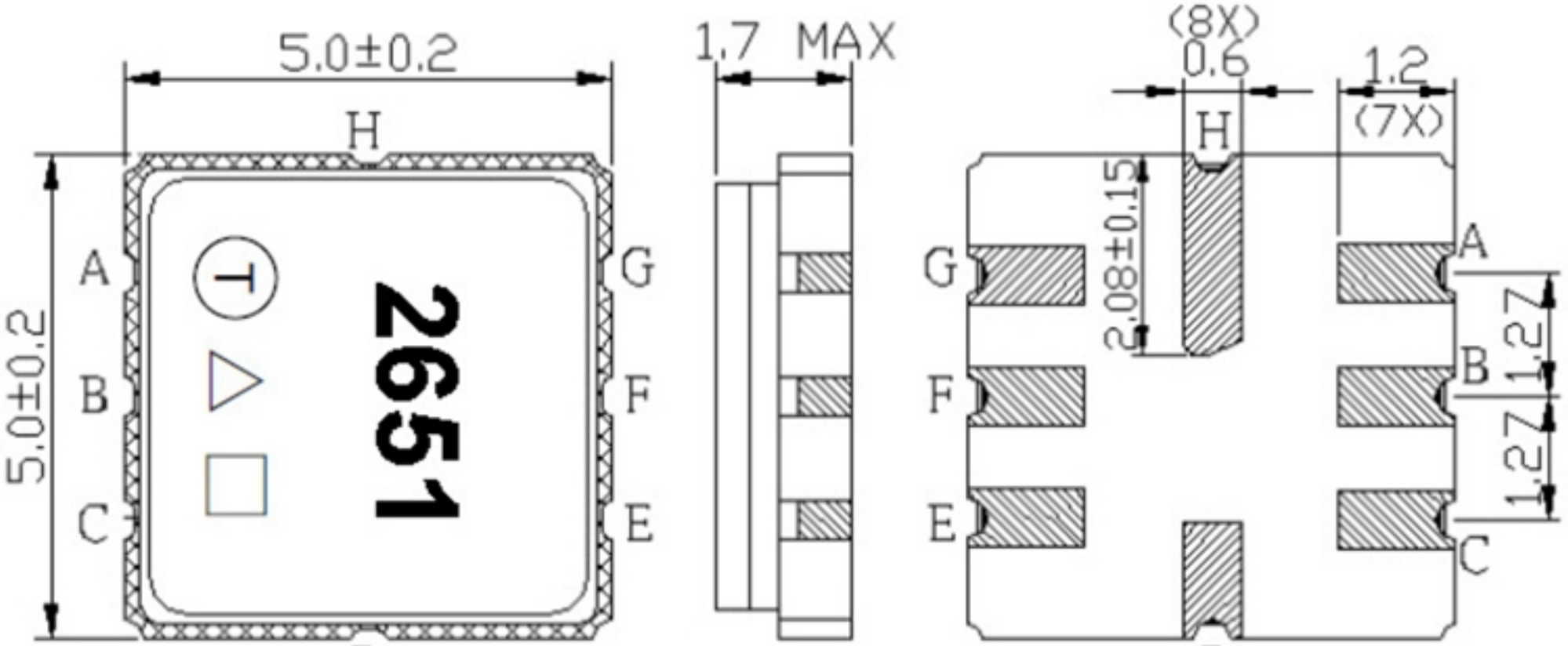
C. MEASUREMENT CIRCUIT:

The matching circuit is real by actual passive components.

L1 : 82 nH

L2 : 82 nH

D. OUTLINE DRAWING:



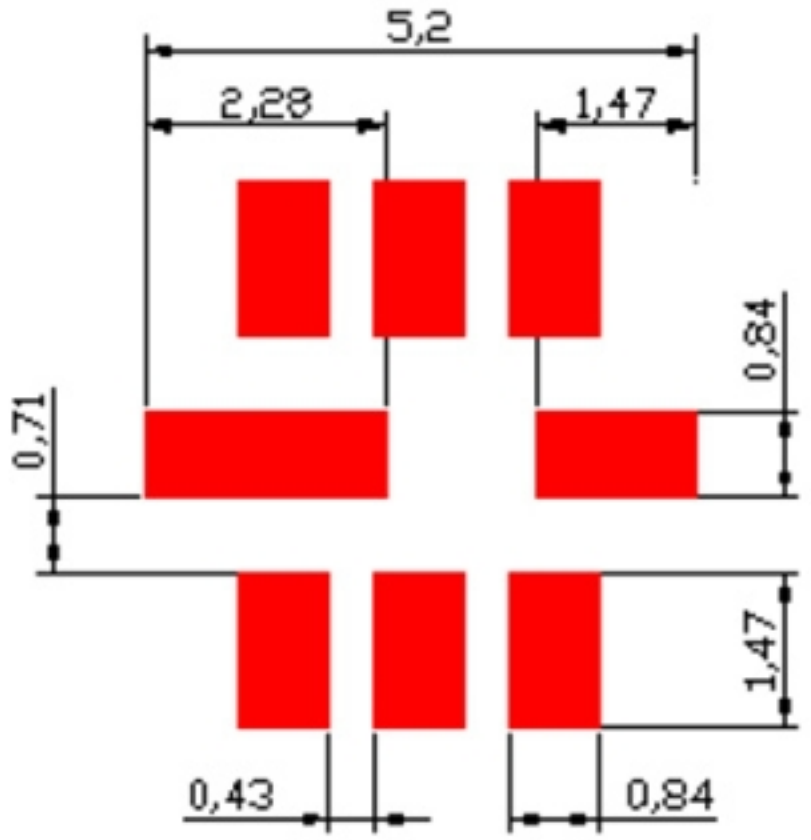
#A : Input
E : Output
Others : Ground
Δ : Product / Year Code
□ : Week Code
Unit : mm

Year	2013	2014	2015	2016
	2017	2018	2019	2020
	2021	2022	2023	2024
Year Code	**A**	**a**	**A**	**a**

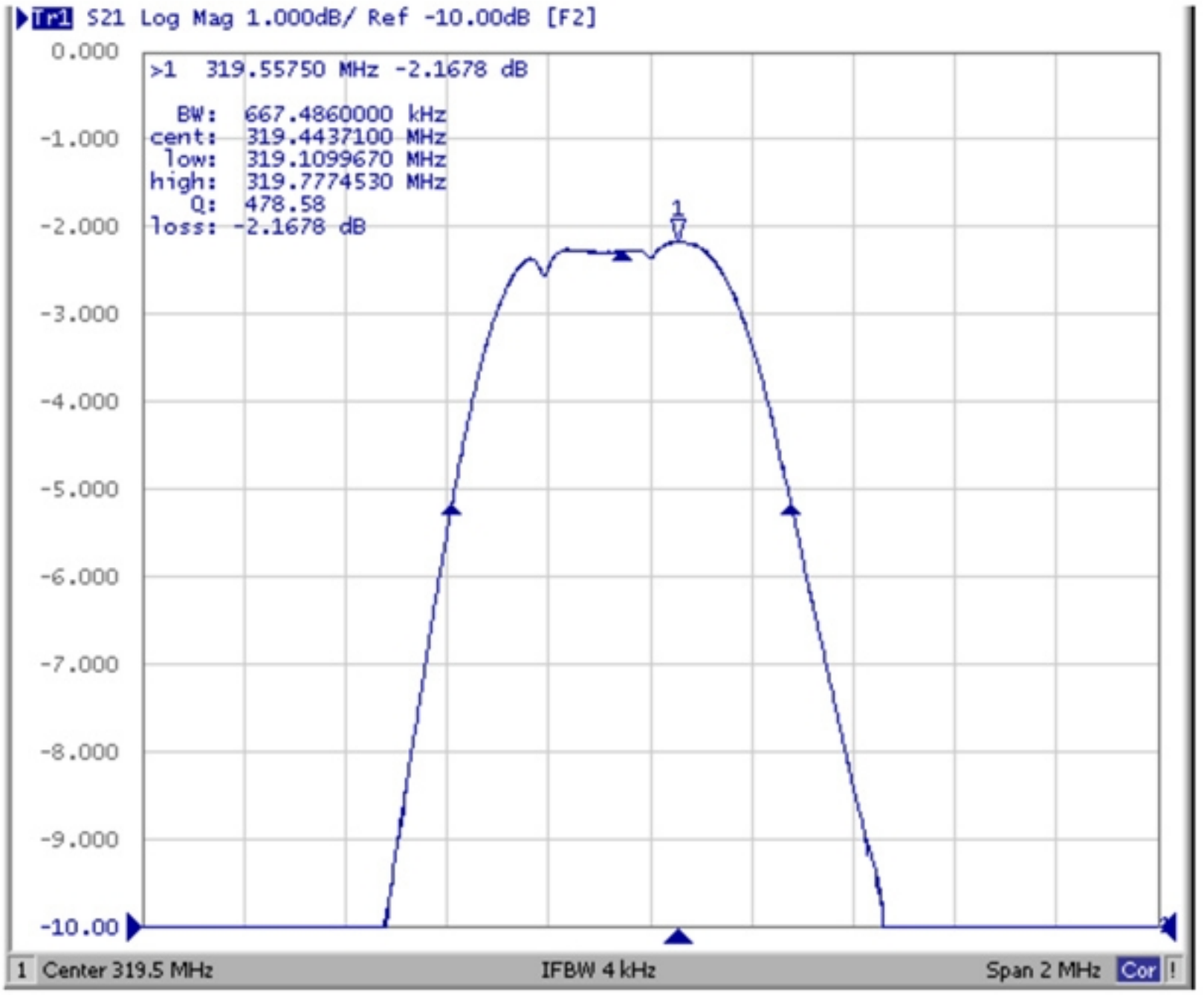
□ : Date Code (Follow the table from planner each year)

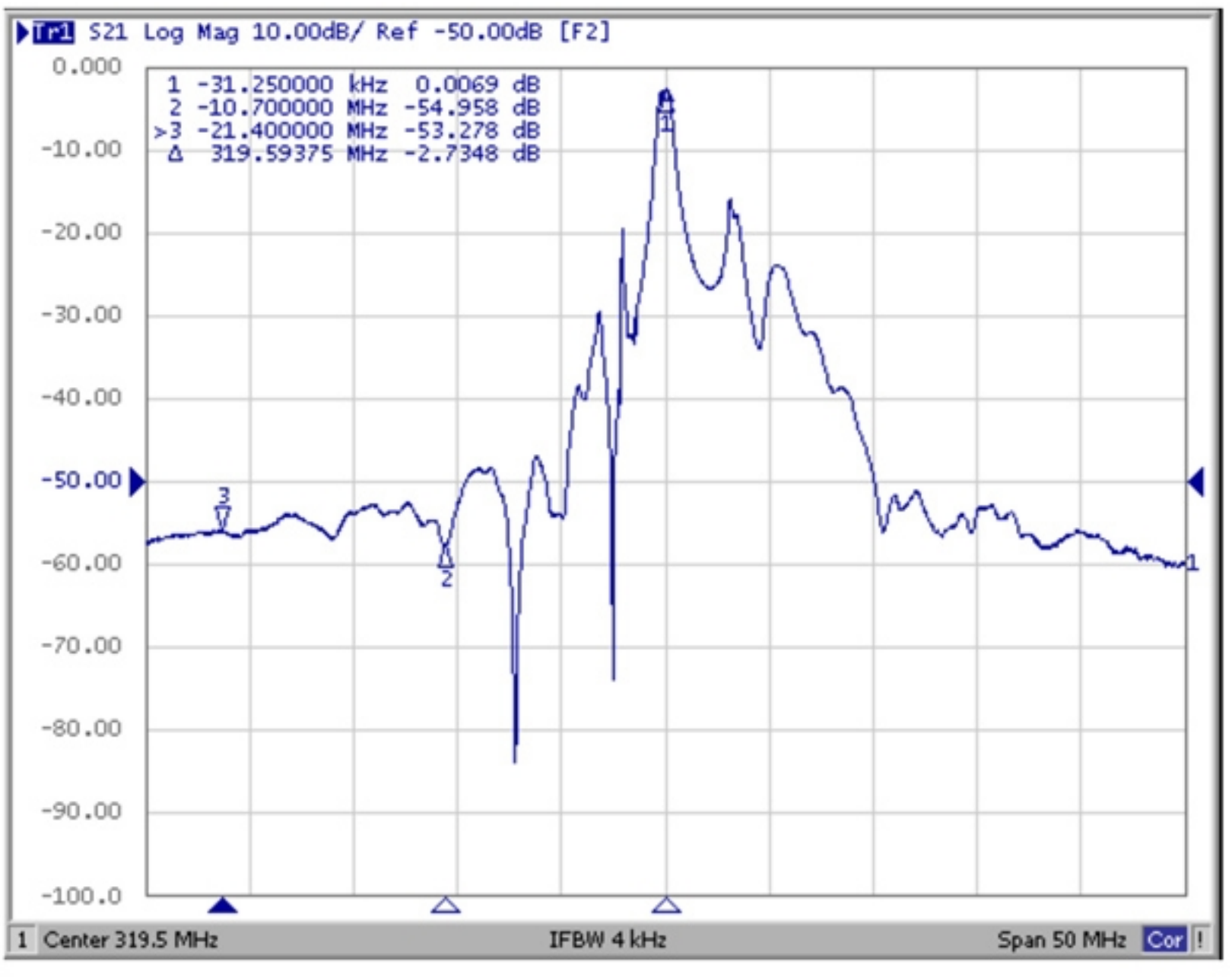
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

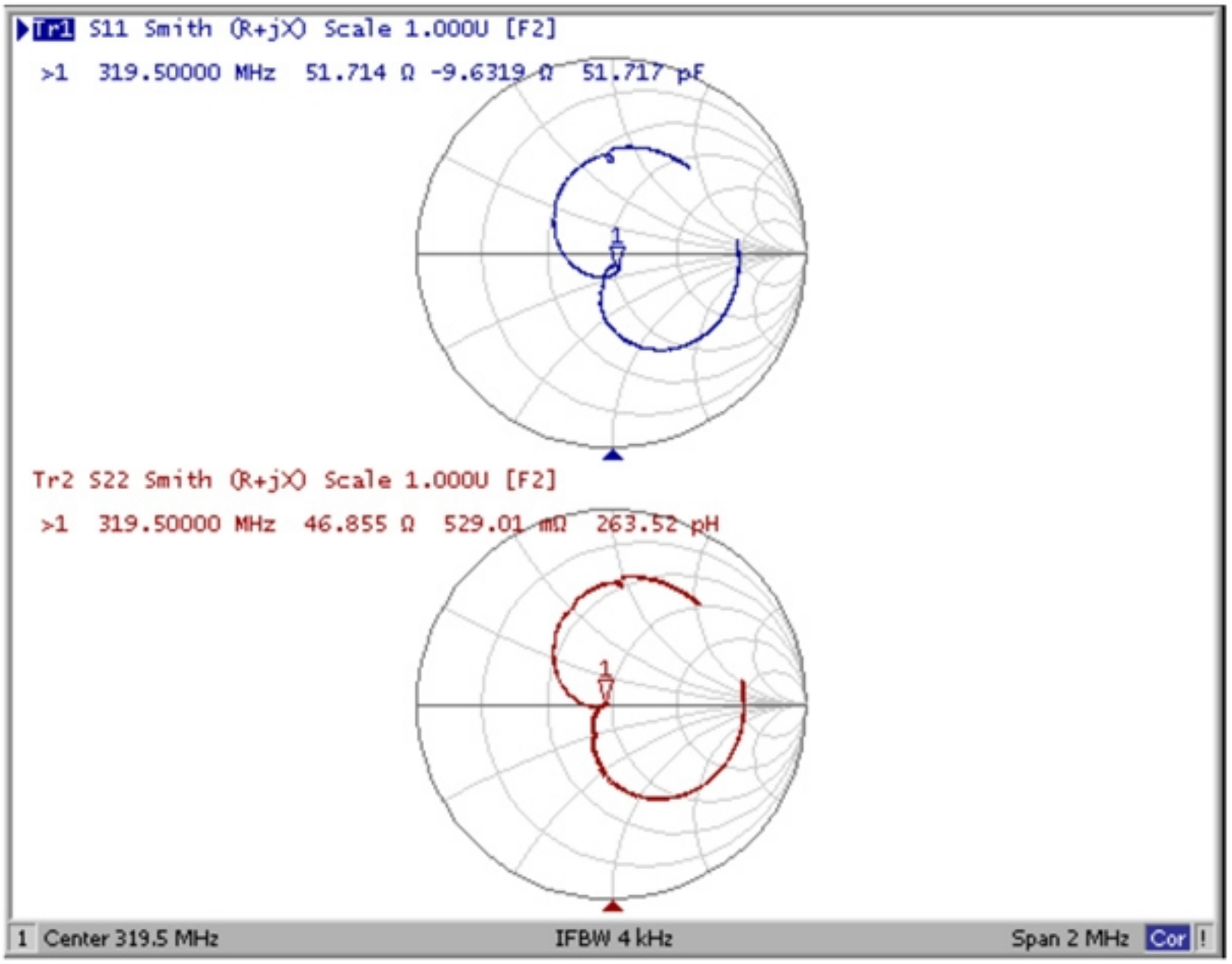
E. PCB FOOTPRINT:



F. FREQUENCY CHARACTERISTICS:



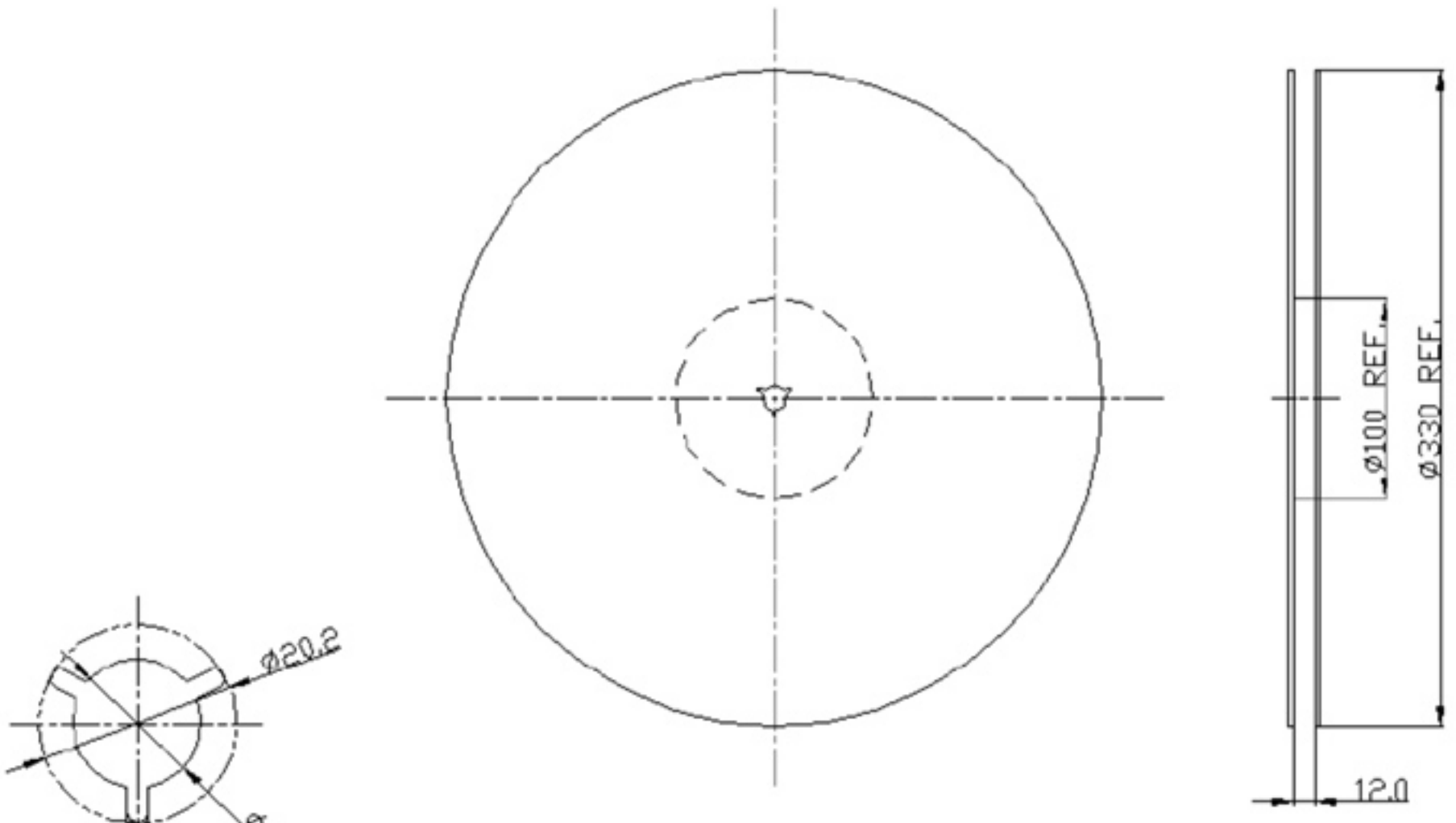




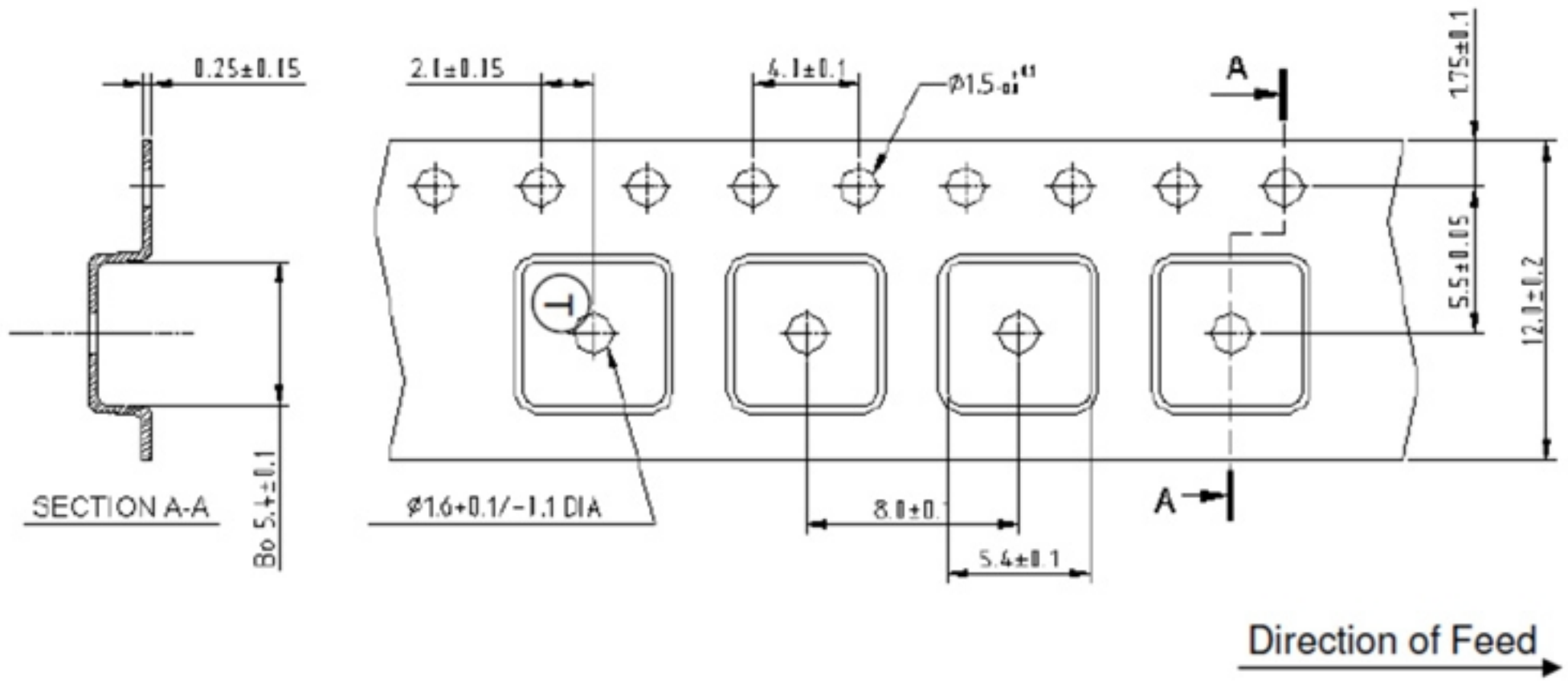
G. PACKING: (Ref. WI-75M03)

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.