

SAW Filter 757.5 MHz

MODEL NO.: TA0822A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (**MSL1**)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

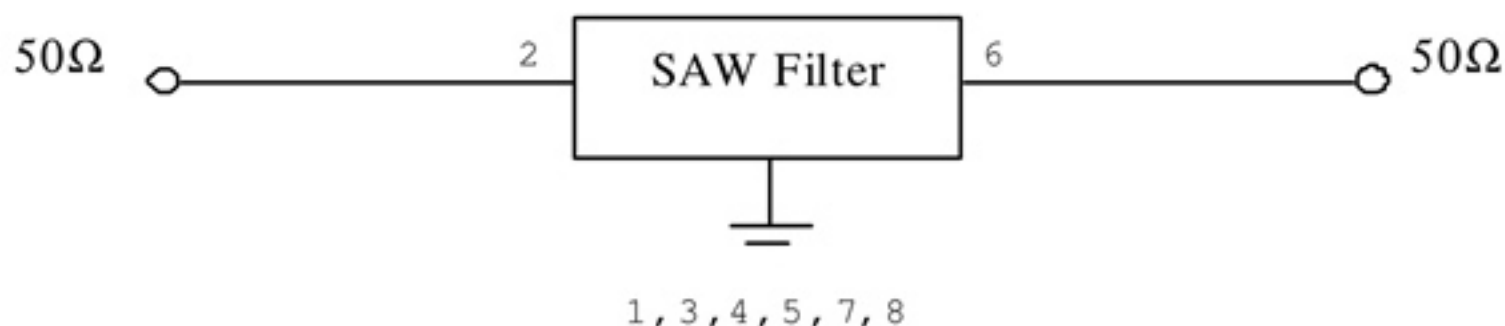
Electrostatic Sensitive Device (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

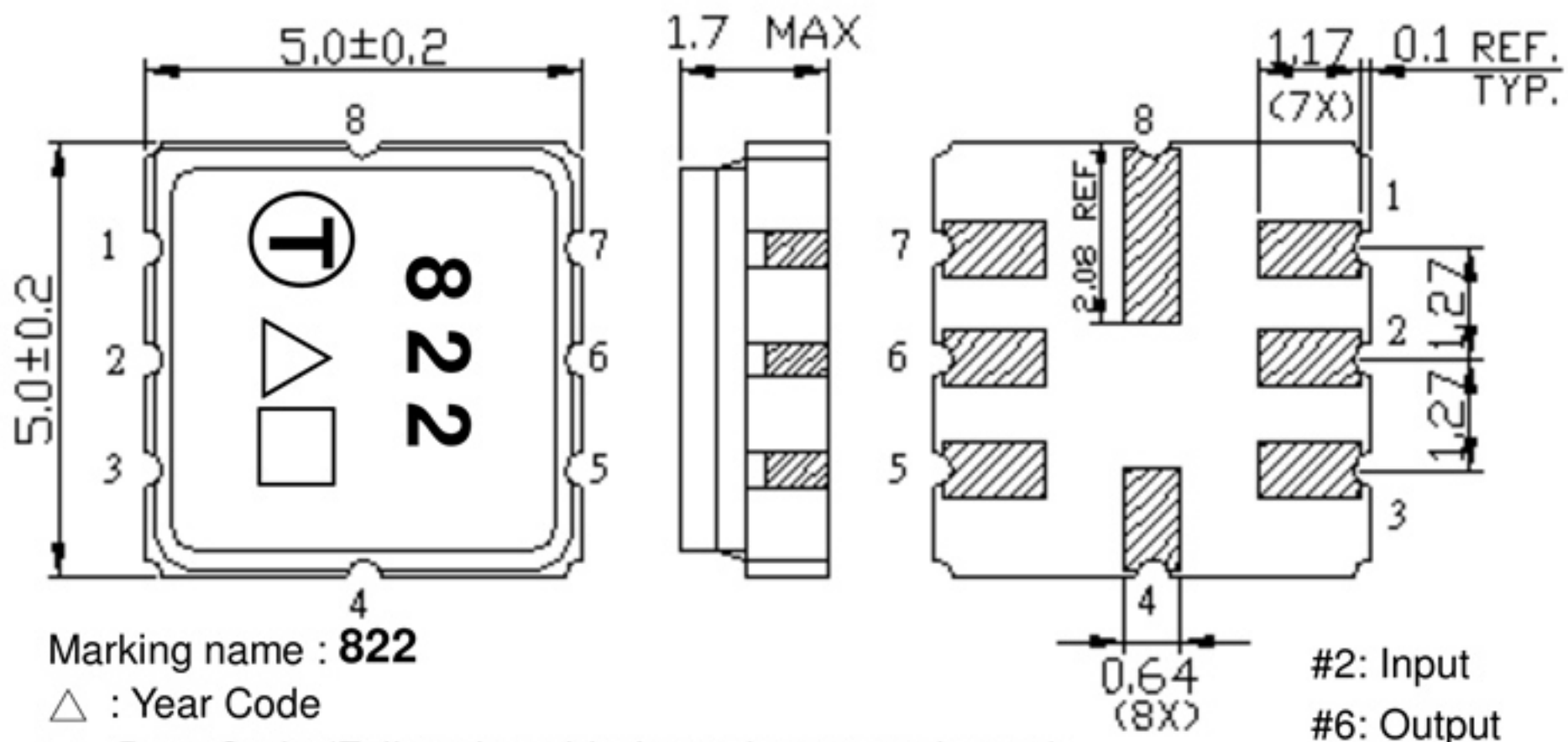
Item		Unit	Min.	Typ.	Max.
Center frequency	Fo	MHz	-	757.5	-
Insertion loss (757~758MHz)	IL	dB	-	2.2	5
Amplitude ripple (757~758MHz)		dB	-	0.2	1.5
Return loss (757~758MHz)		dB	10	18	-
Group delay variation (757~758MHz)		ns	-	7	50
Attenuation (Reference level from 0 dB)					
DC~707 MHz		dB	40	43.5	-
707~730 MHz		dB	40	42	-
764~776 MHz		dB	15	29	-
787~788 MHz		dB	30	40	-
798~2000 MHz		dB	40	48	-
Source impedance	Zs	Ω	-	50	-
Load impedance	ZL	Ω	-	50	-
Temperature Coefficient		ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



Marking name : **822**

△ : Year Code

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

Product Year Code

Year	2017 2021	2018 2022	2019 2023	2020 2024
Year Code	A	a	<u>A</u>	<u>a</u>

#2: Input

#6: Output

#1,3,5,7: Ground

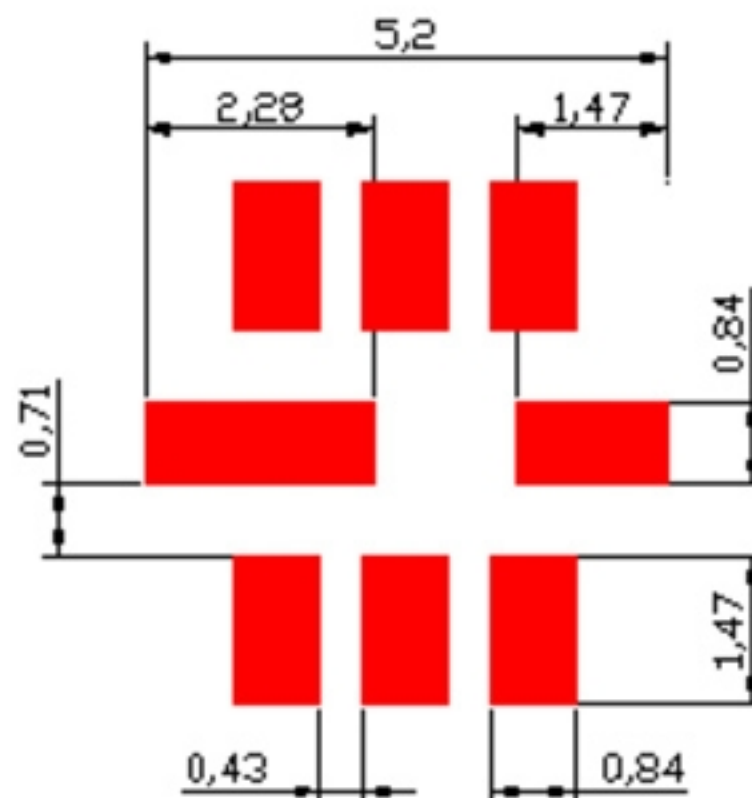
#4,8: Case Ground

Unit: mm

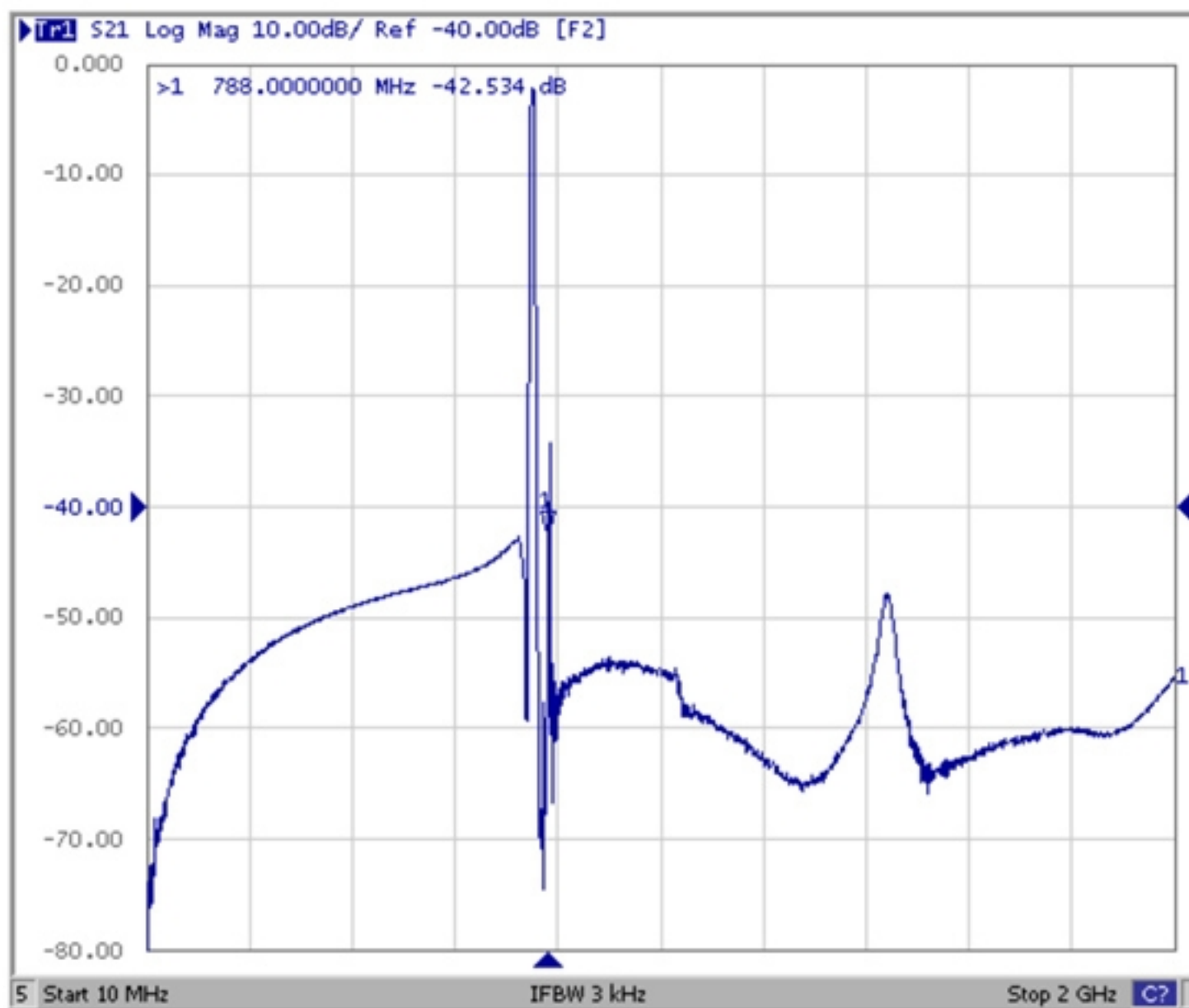
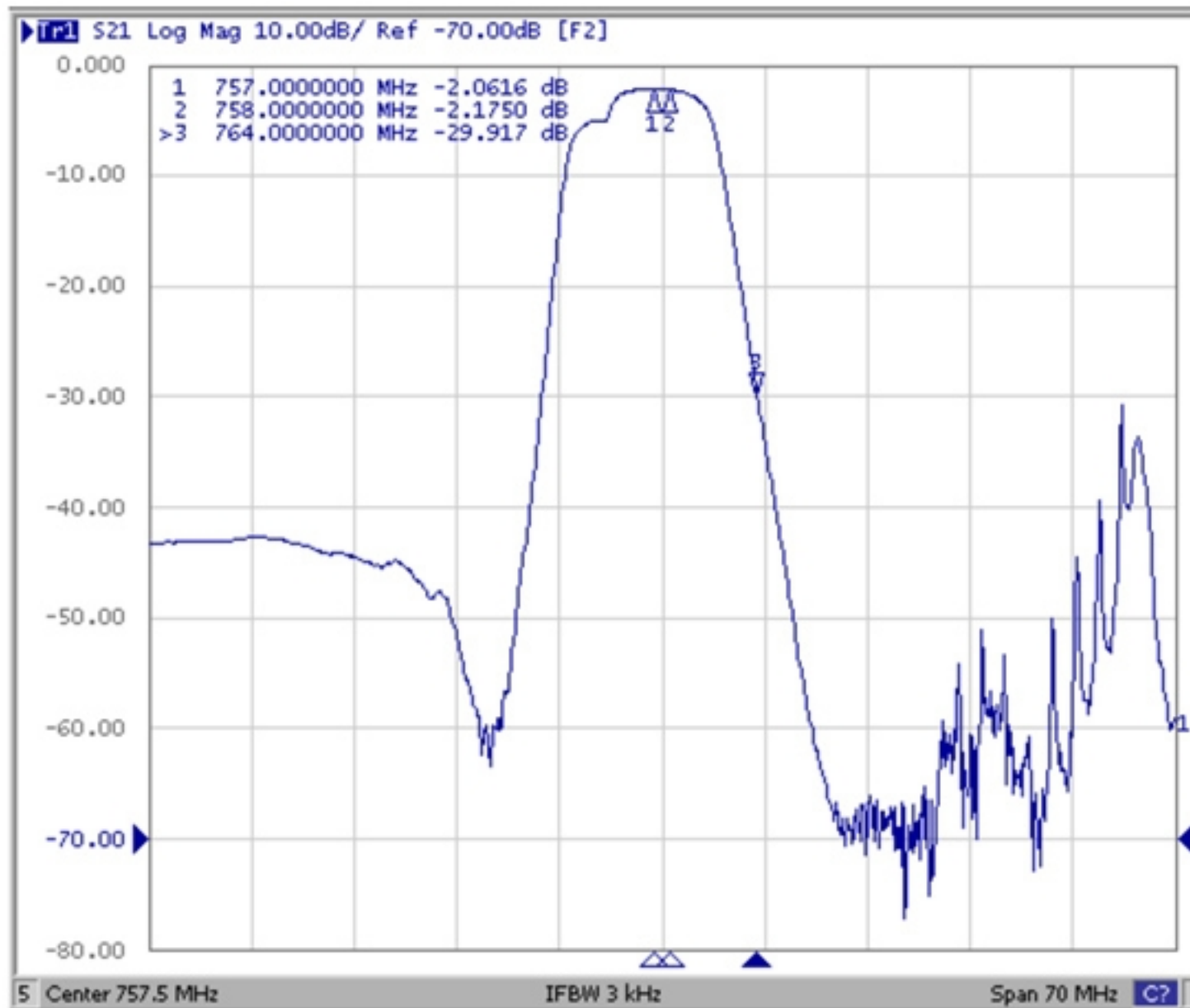
Date Code Table

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

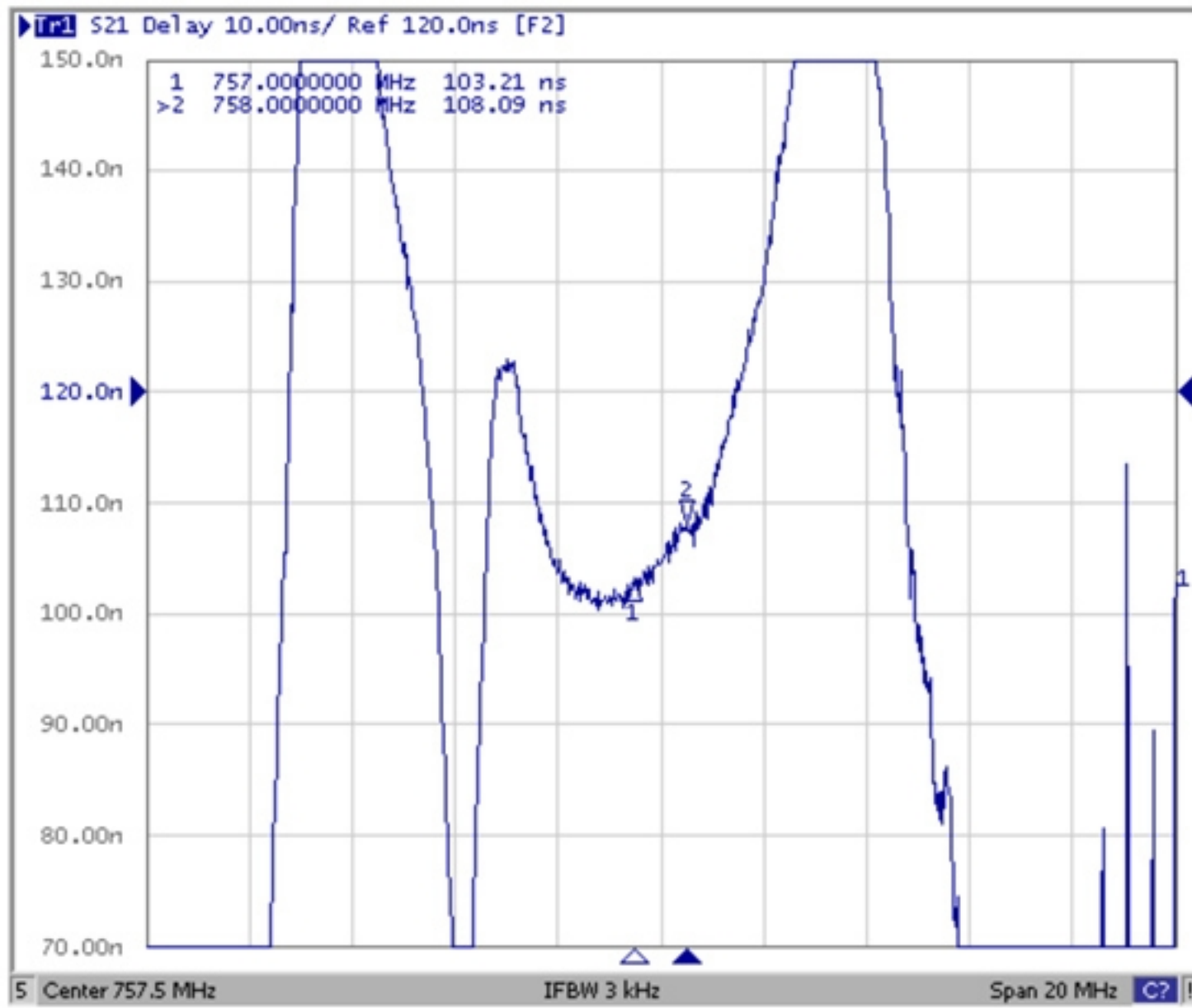
E. PCB Footprint:



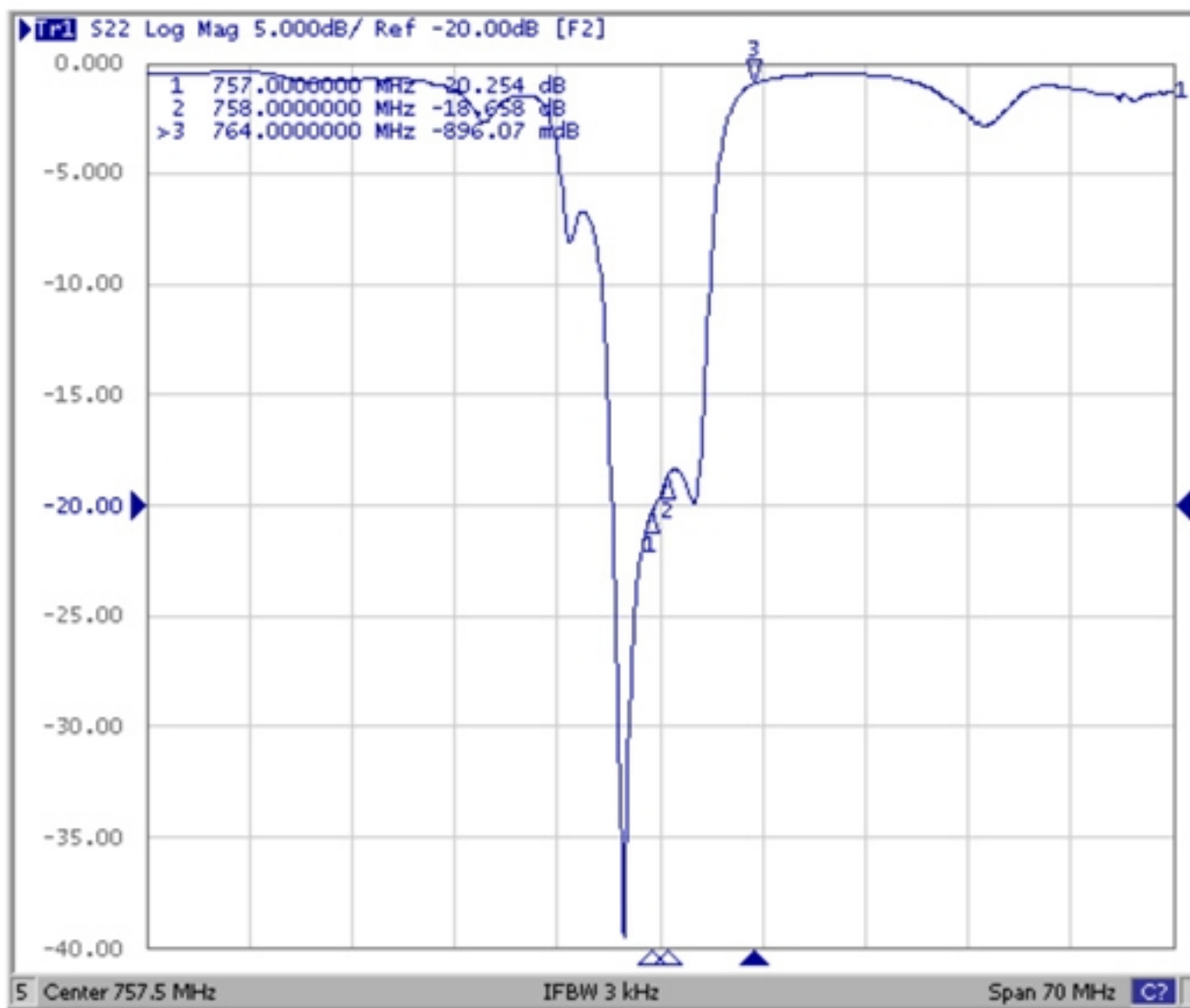
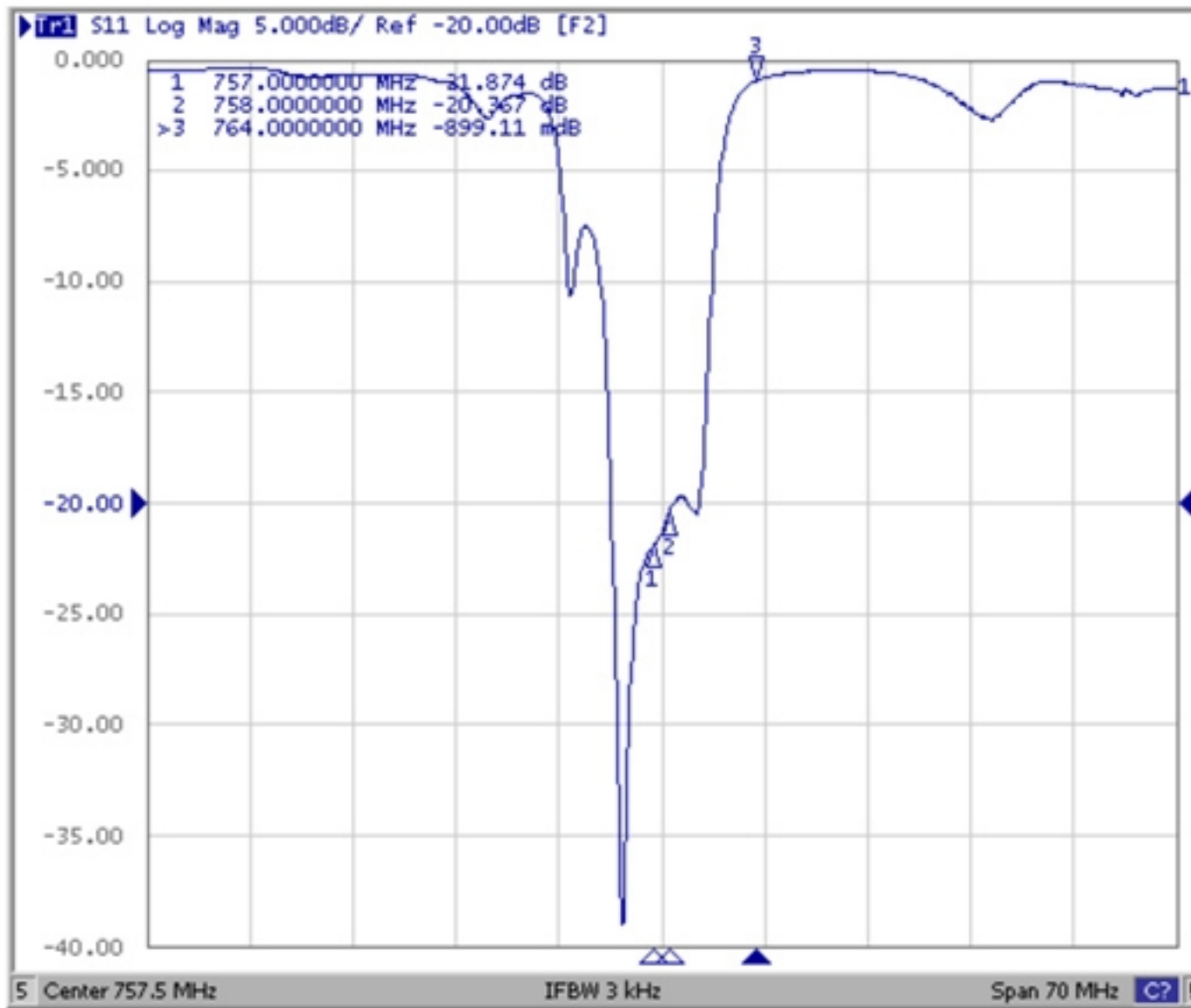
F. Frequency Characteristics : Transfer function



Group Delay



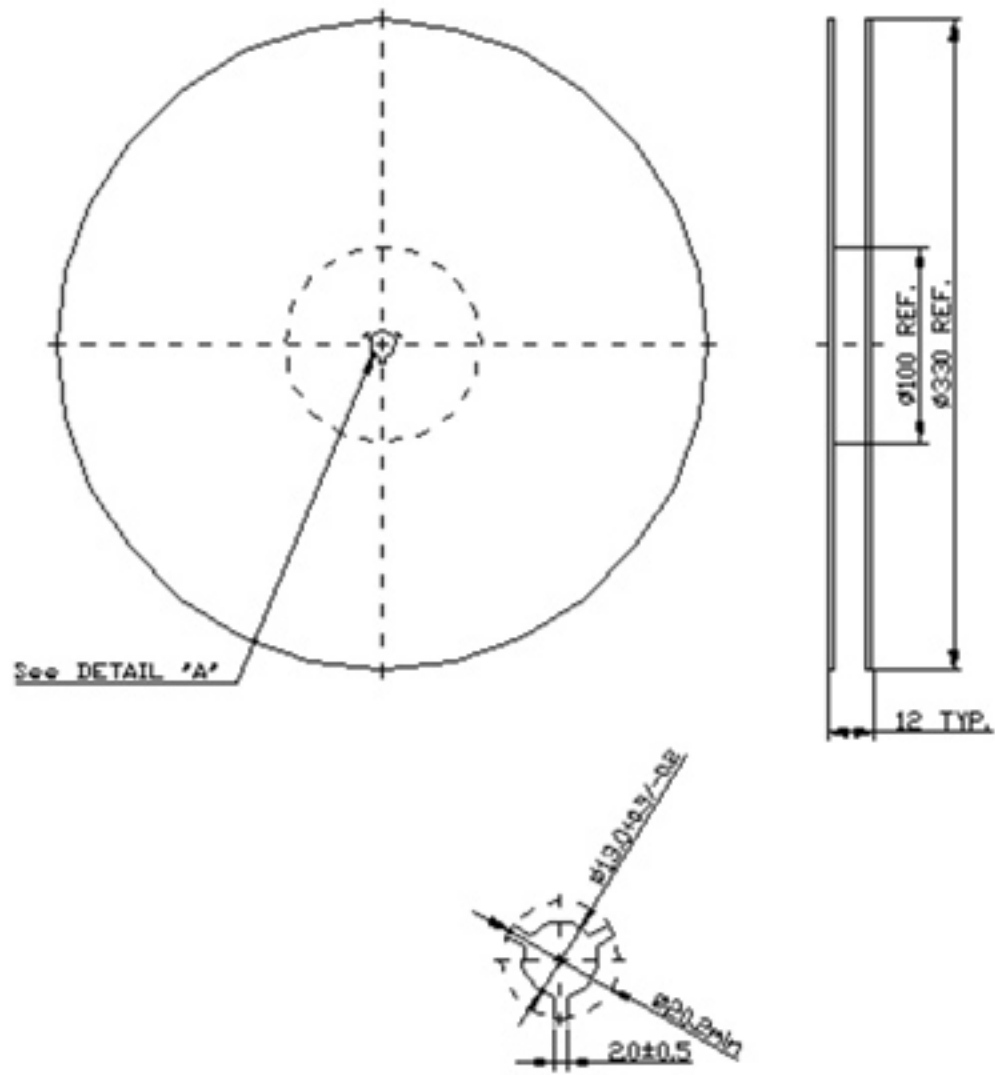
Reflection Functions :



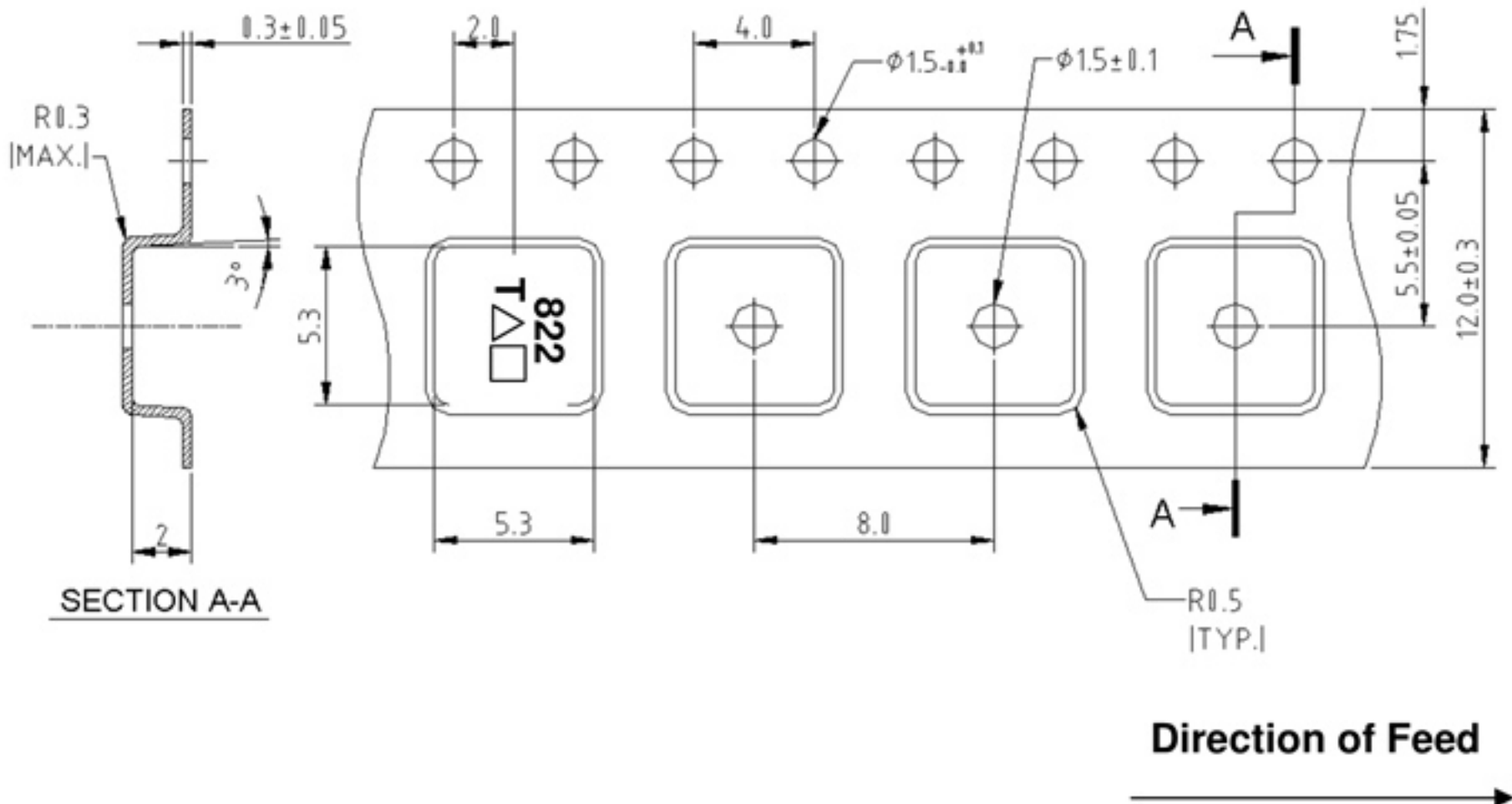
G. PACKING:

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.

