

SAW Filter 901.50MHz

Model: TA1948A

Part No: MP11229

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

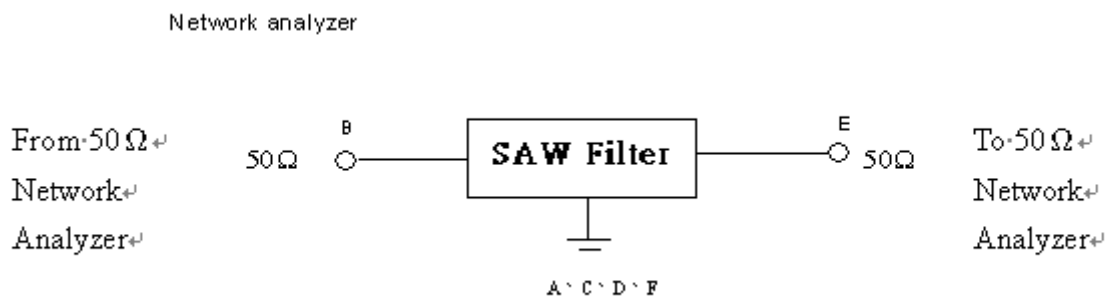
1. Input Power Level: 10dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source/load impedance (single): $Z_S = 50\Omega / Z_L = 50\Omega$
2. Test Temperature 25°C

Item	Unit	Min	Typ.	Max	Note
Center Frequency Fc	MHz	-	901.5	-	
Insertion Loss (901~902MHz) IL	dB		3.0	4.0	
VSWR (901~902MHz)			1.3	2.0	23 ~ 27°C
Amplitude ripple (901 ~ 902MHz)	dB		1.0	2.0	
Attenuation					
50 ~ 861MHz	dB	45	50		
861 ~ 890MHz	dB	35	40		
930 ~ 941MHz	dB	45	50		
941 ~ 1000MHz	dB	45	50		
Temperature coefficient	ppm/°C	-36			
Package size	mm	SMD 3x3			

C. TEST CIRCUIT:

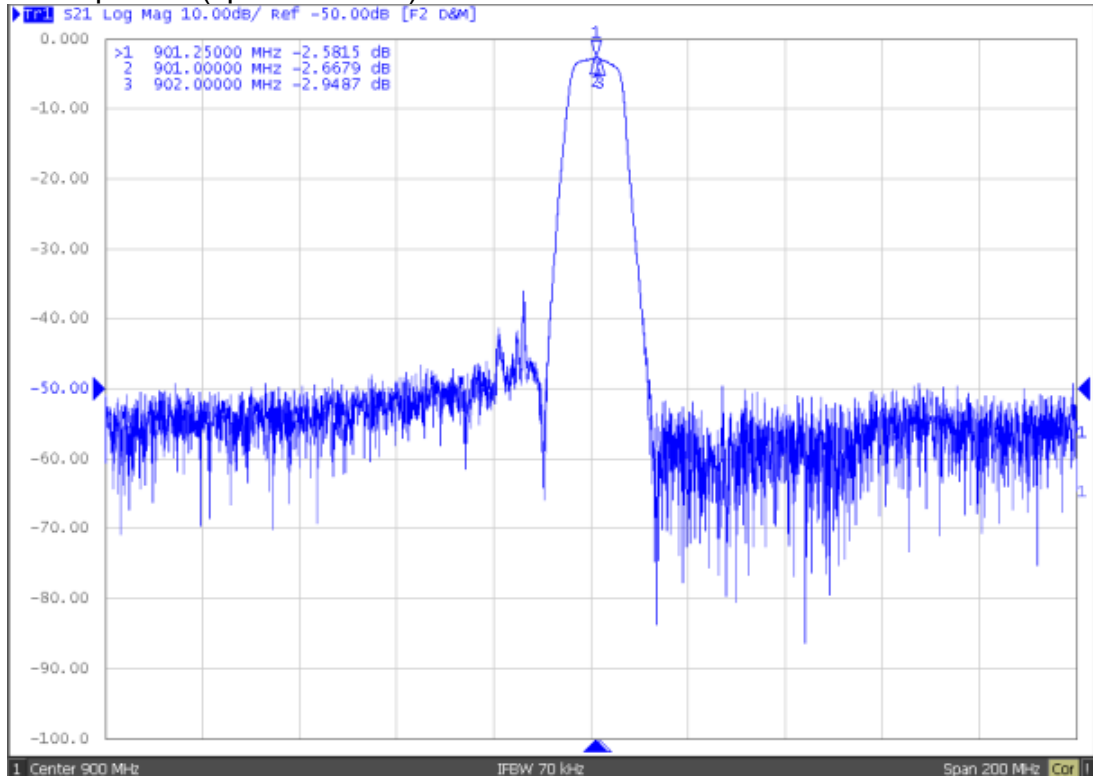


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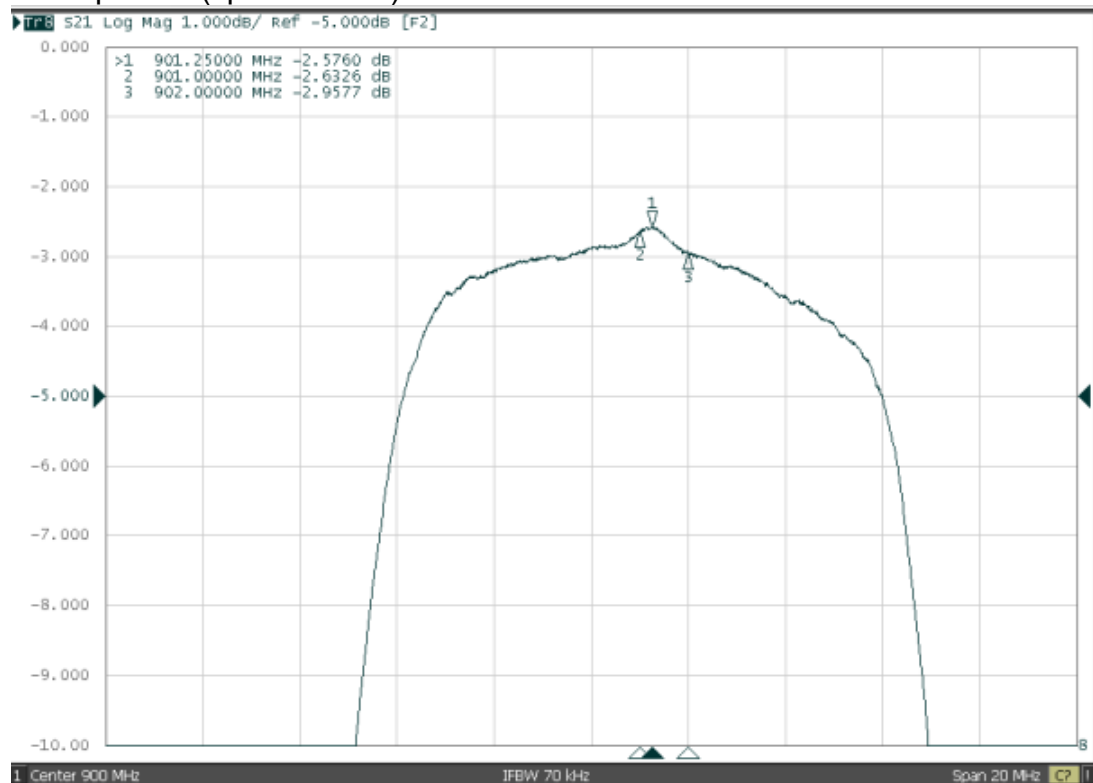
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D. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 200MHz)



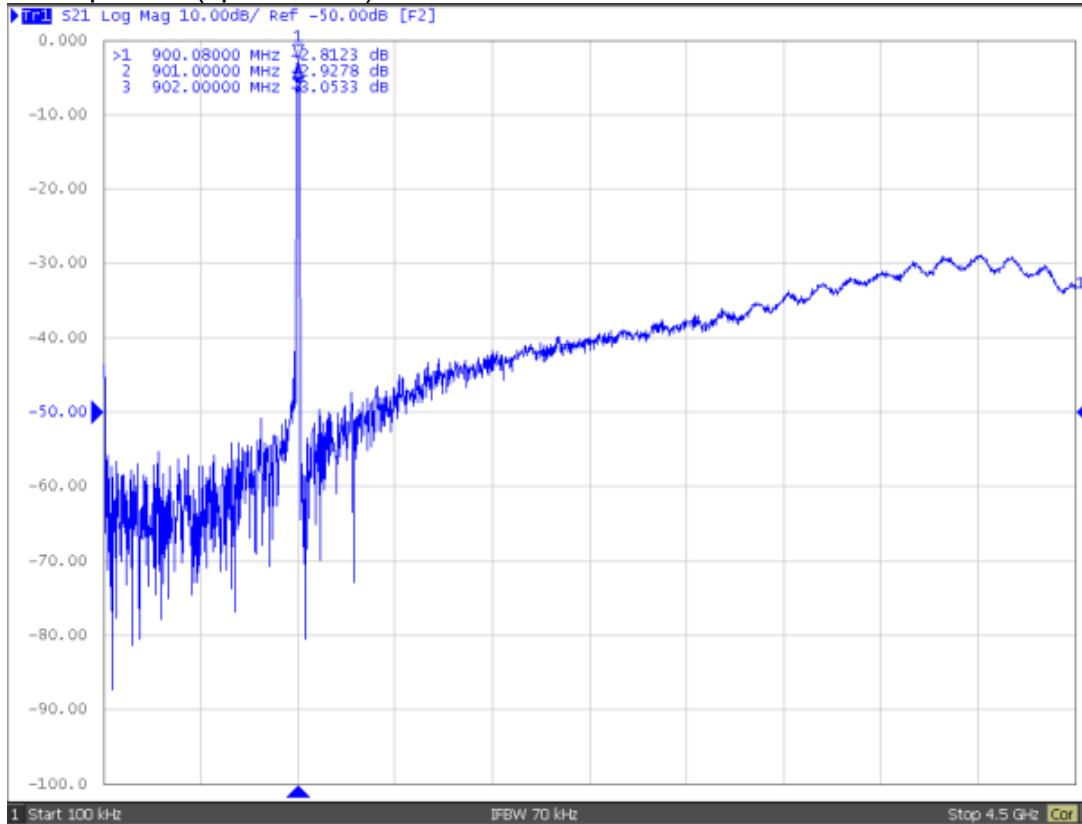
2. S21 response: (span 20MHz)



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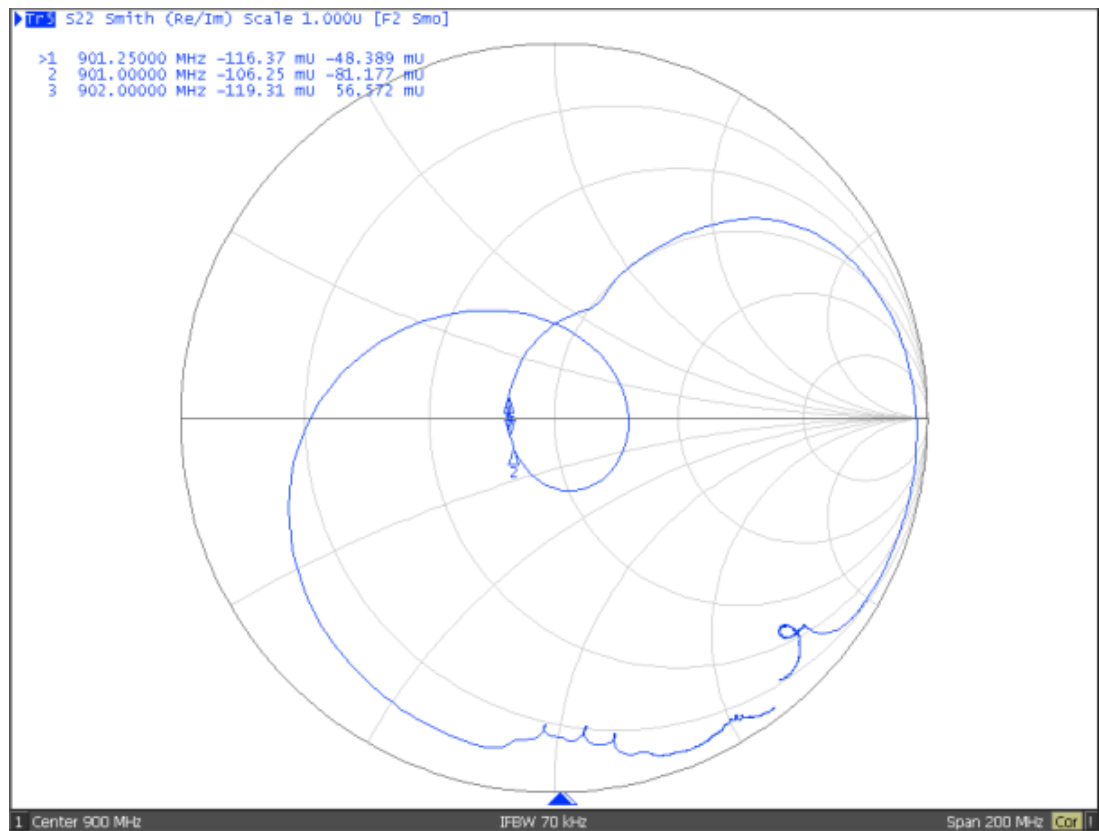
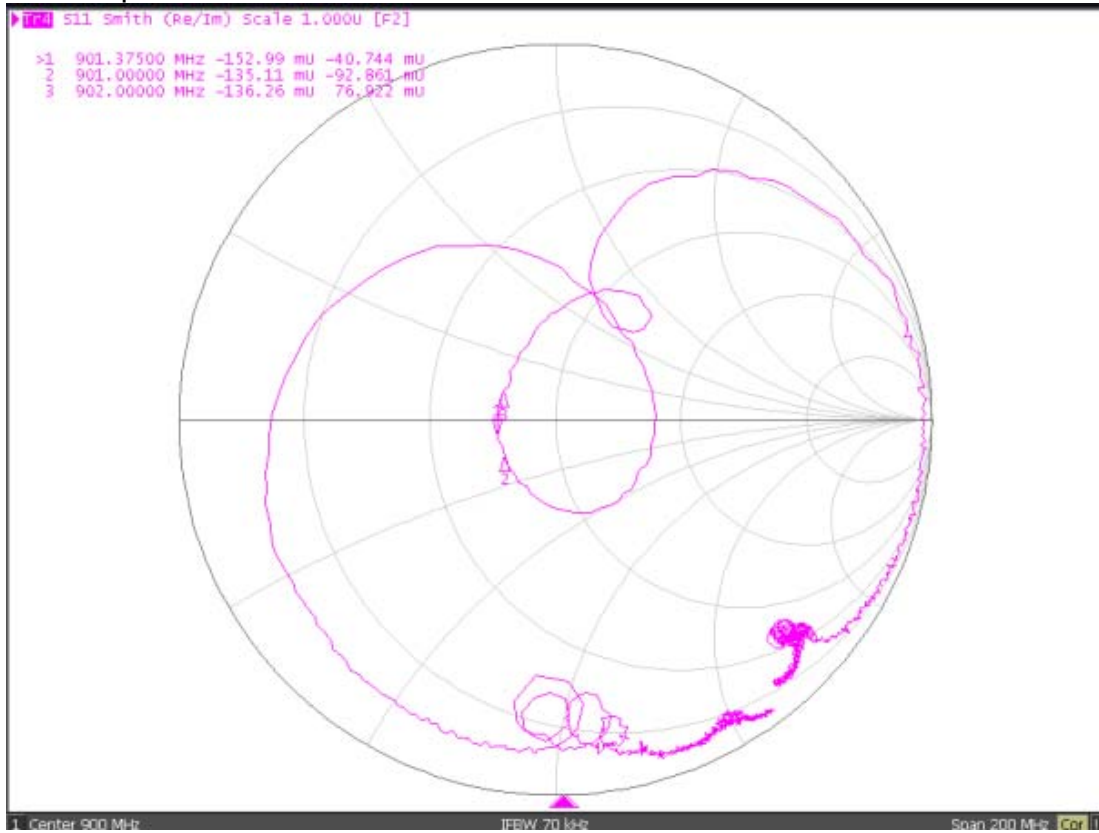
3. S21 response: (span 3GHz)



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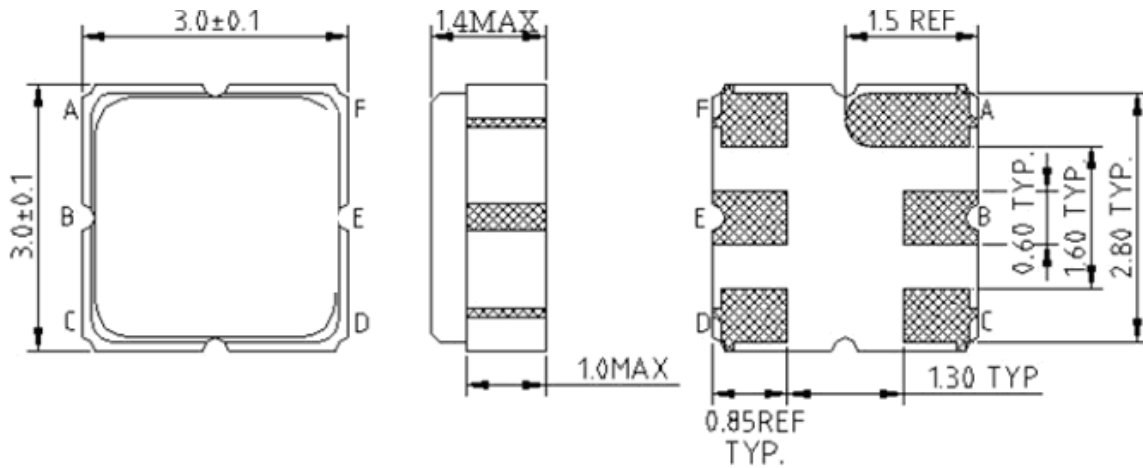
4. S11/S22 response:



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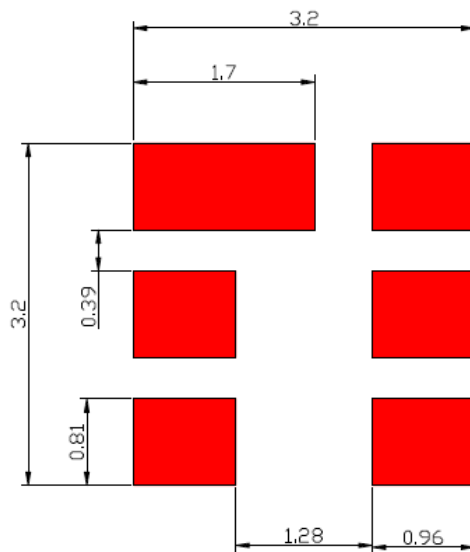
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E. OUTLINE DRAWING:



- #B: Input
- #E: Output
- # A.C.D.F Ground
- △: Year code (ex 2008 → 8)
- : Date code
- Unit: mm

F. PCB FOOTPRINT:

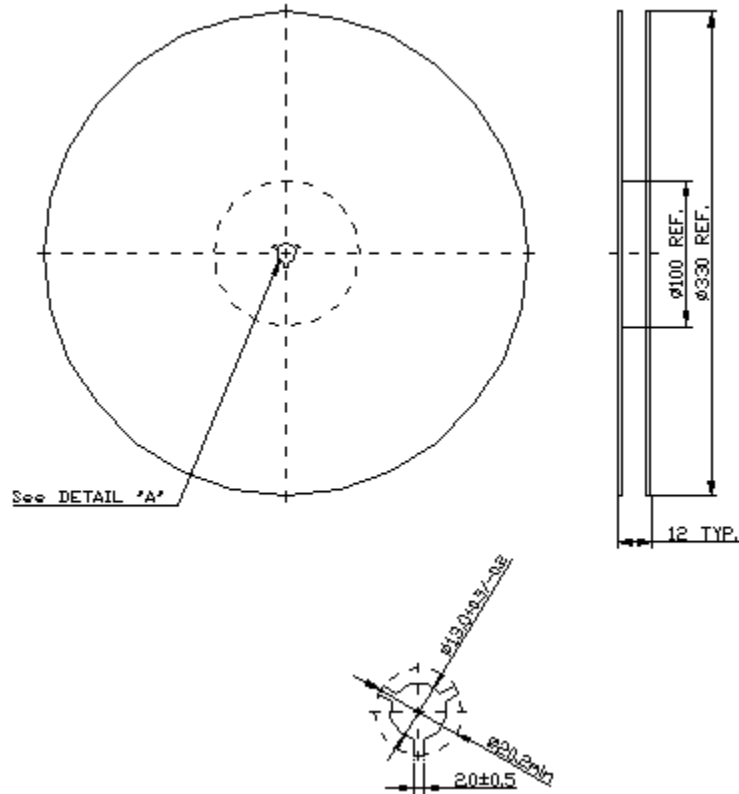


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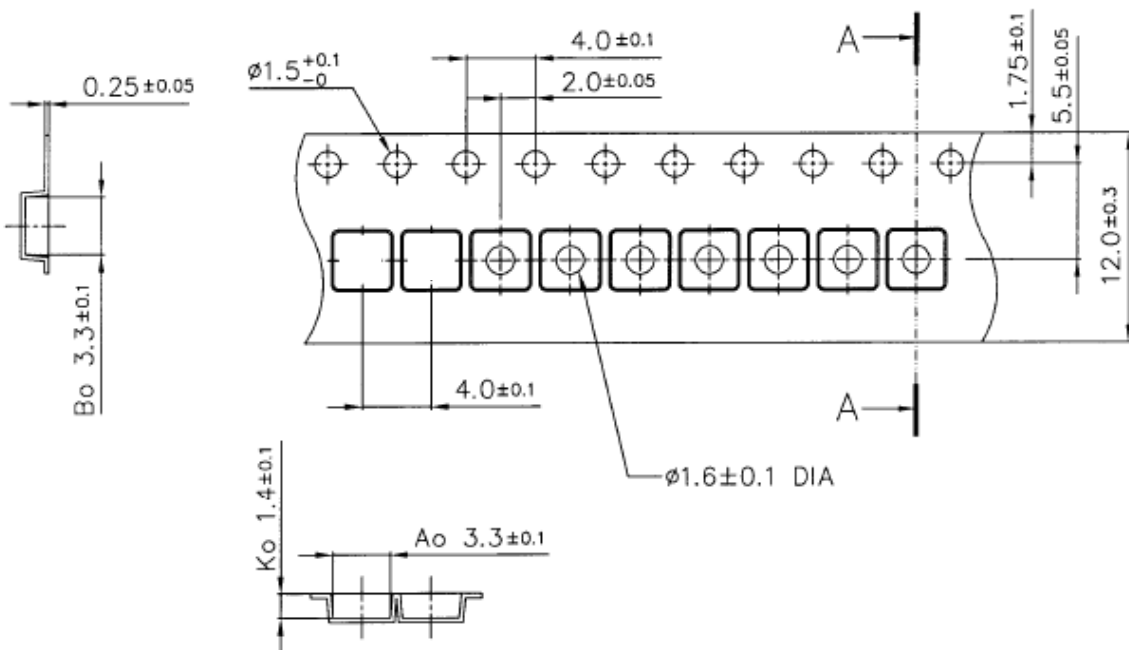
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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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 (20~40 sec).
4. Time: 2 times.

