

SAW Filter 420 MHz

MODEL NO.: TA0409B

REV. NO.:2

A. MAXIMUM RATING:

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

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

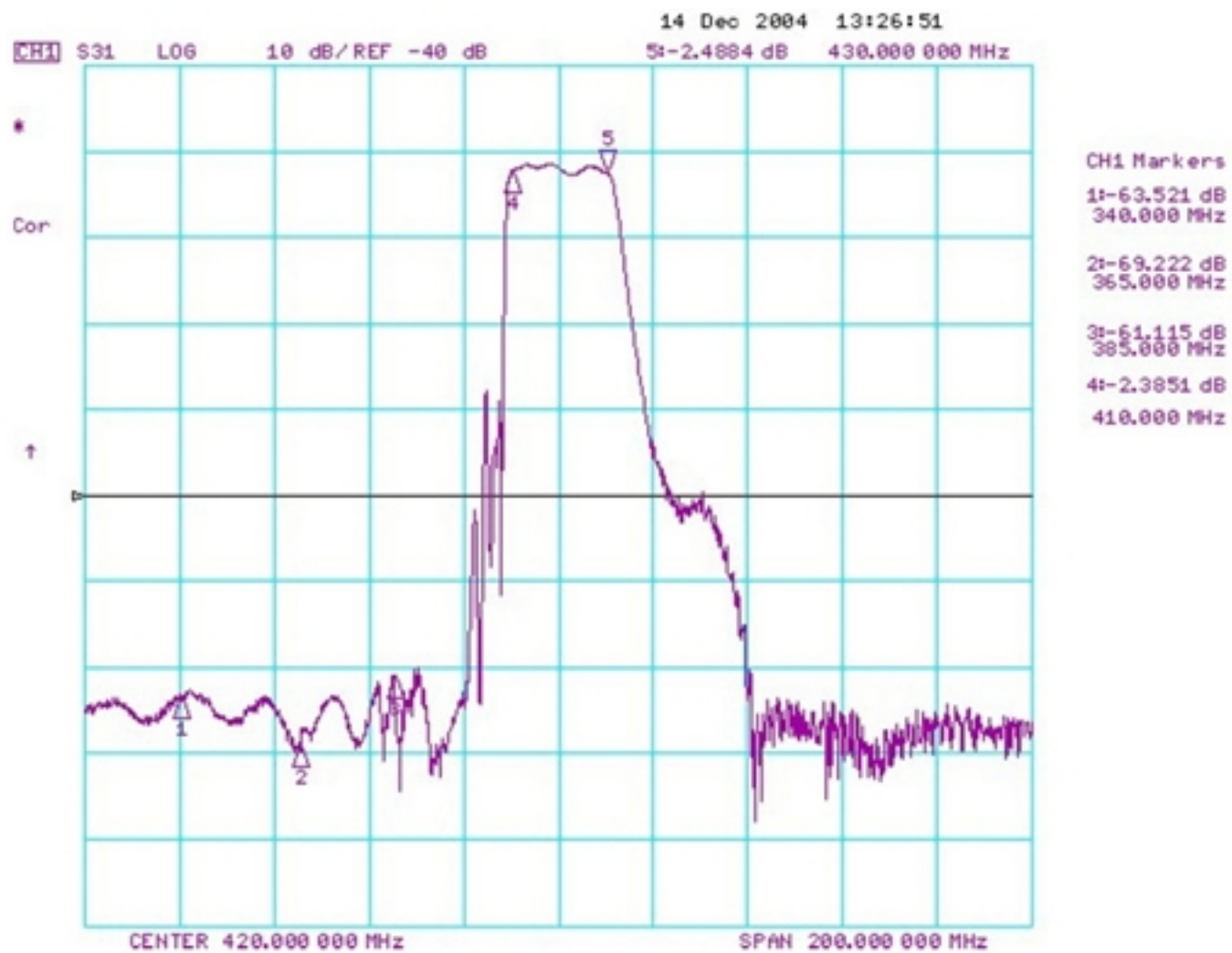
B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

Item	Unit	Min.	Type.	Max.	
Center frequency Fc	MHz	-	420	-	
Minimum Insertion Loss IL _{min} (reference level)	dB	-	1.6	3.5	
Ripple Fc±10MHz	dB		1.3	3	
Relative Attenuation:(Reference level from IL _{min})					
320 to 340 MHz	dB	45	60	-	
365 to 385 MHz	dB	40	58	-	
Temperature coefficient of frequency	ppm/K	-	-37	-	
Source impedance Z _s	Ω	-	50	-	
Load impedance Z _L	Ω	-	50	-	

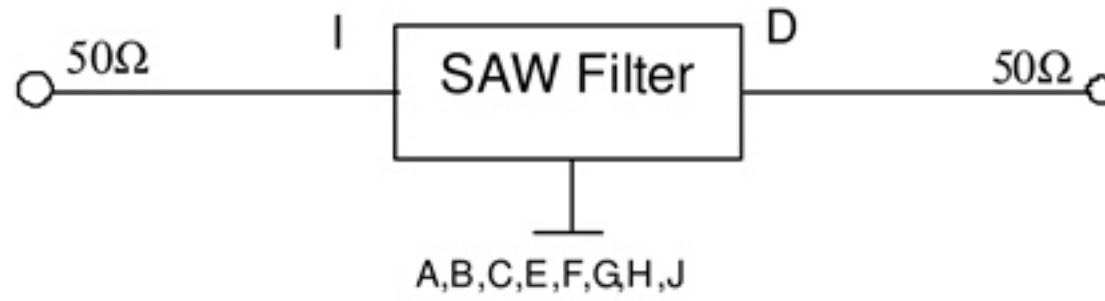
Note: IL_{min} is the minimum of the pass band attenuation. The center frequency F_c is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL_{min}.

C. Frequency Characteristics :

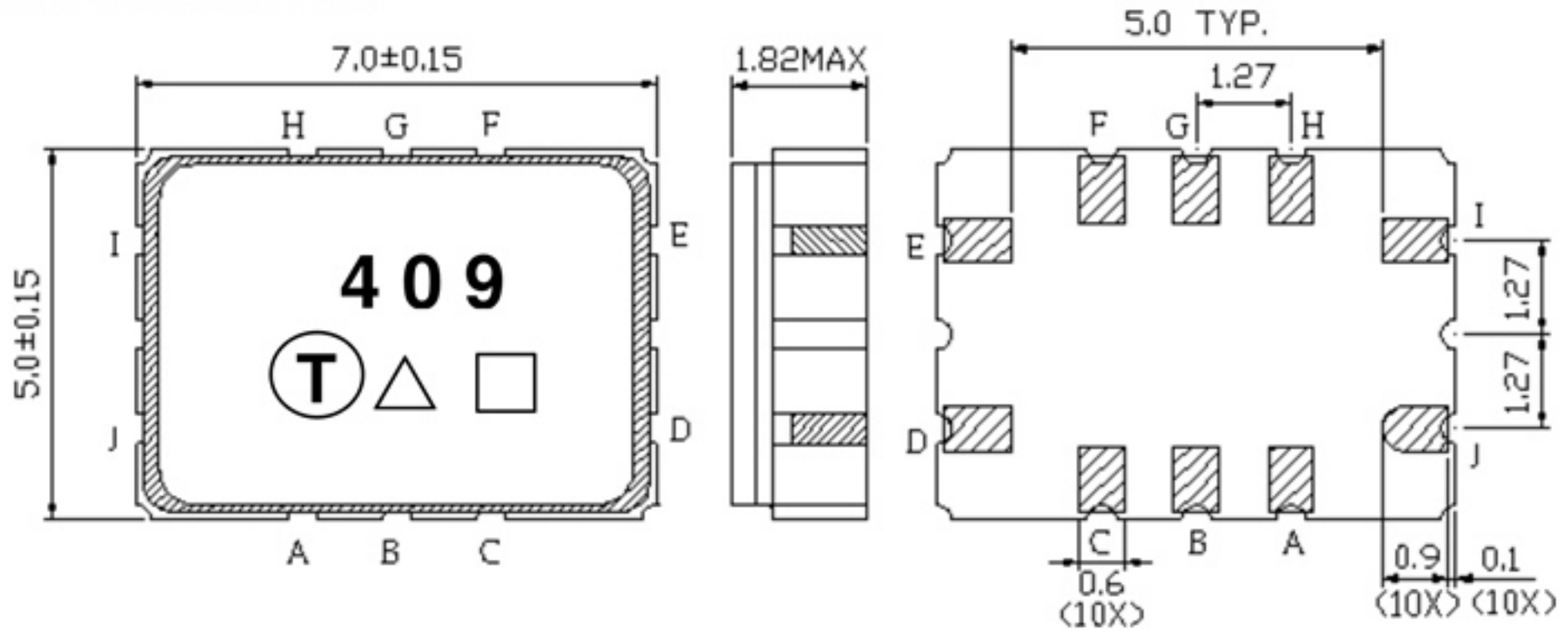


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



Pin I : Input

Pin D : Onput

Pin A, B,C, E, F, G, H, J : Ground

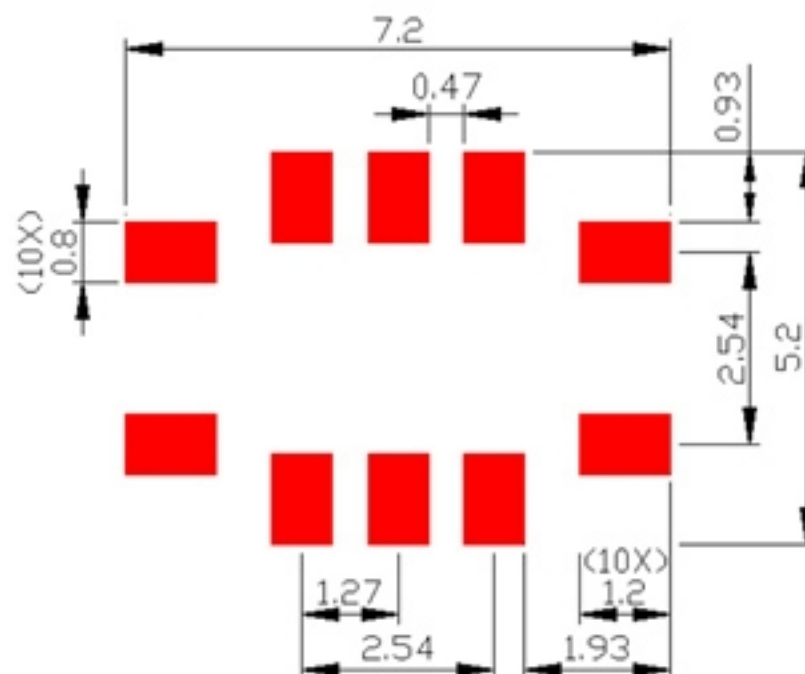
△: Year Code

□: Date Code (Follow the table provided by planner each year.)

Unit : mm

Year	2017	2018	2019	2020
	2021	2022	2023	2024
Year Code	B	b	<u>B</u>	<u>b</u>

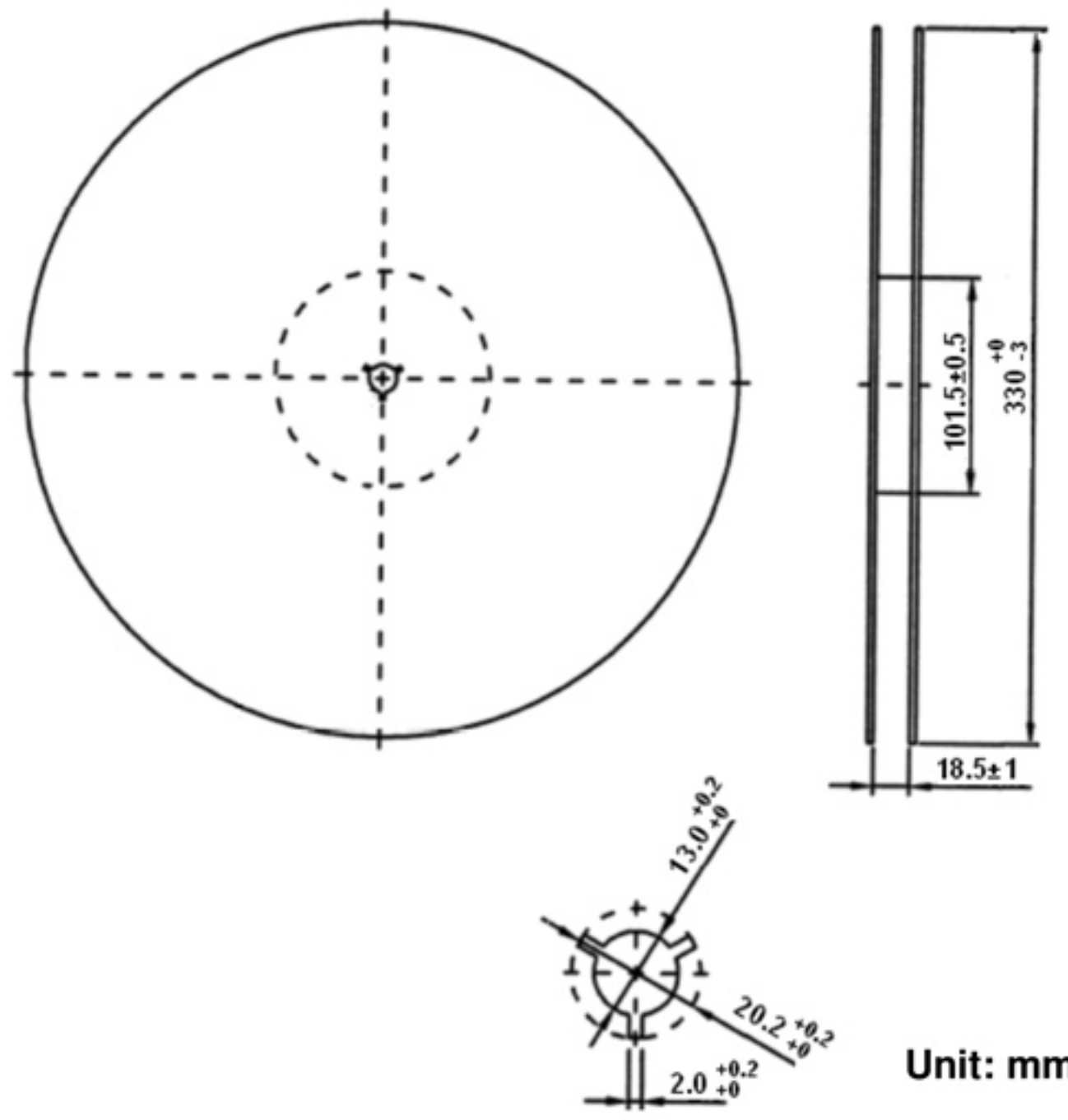
F.PCB FOOTPRINT:



G. PACKING:

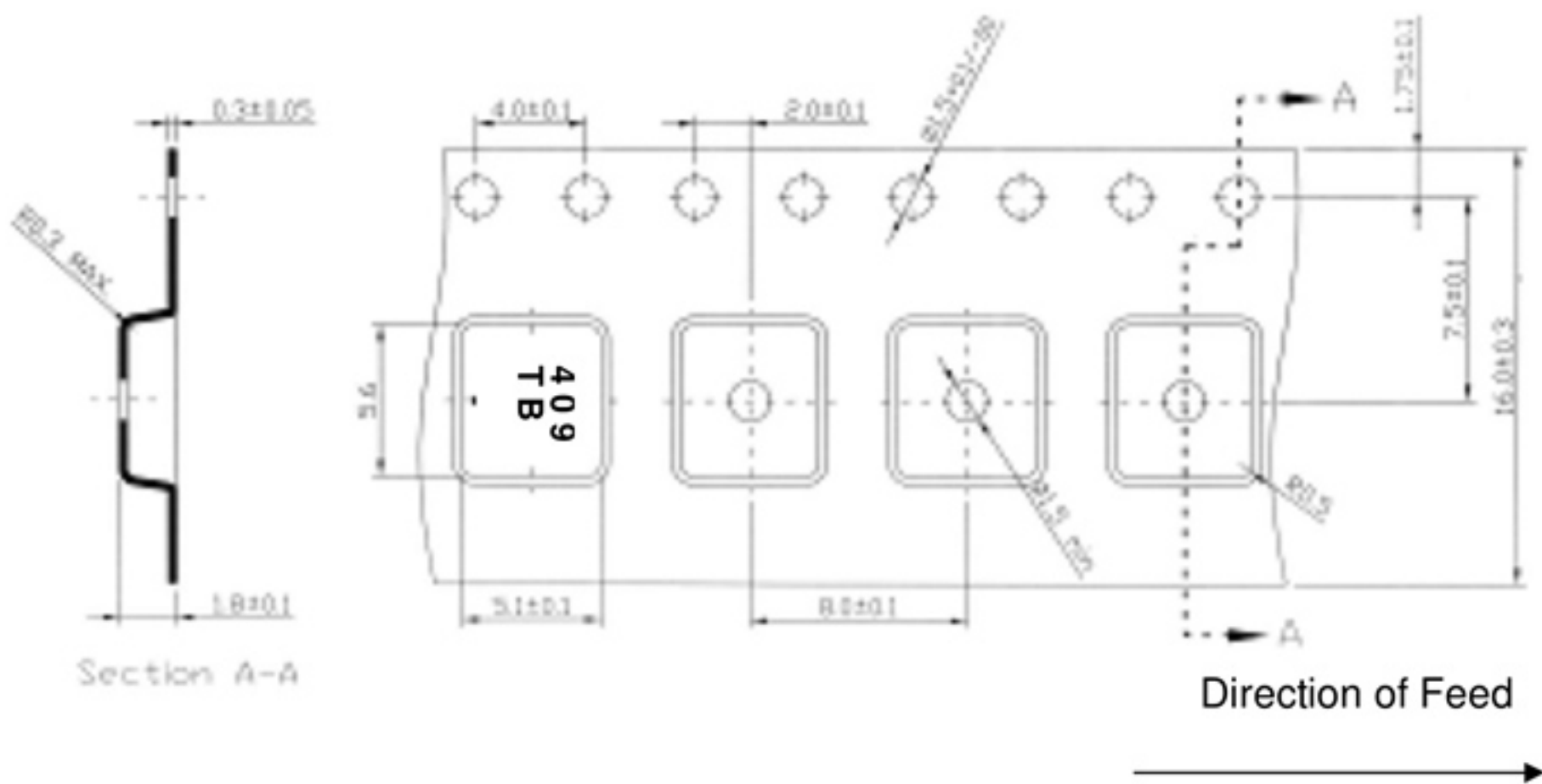
1. REEL DIMENSION

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



Unit: mm

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.

