

TEST REPORT NO.: 2018/06_RESET GENERATOR LM809 4.63V
LOT 8017248EM8

Type of Report ☒ Temporary
 ☐ Final

Test Report No. 2018/06_Reset_Generator LM809 4.63 LOT 8017248EM8

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Last Revision No.	2
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Project No.	
Project Name	
Project Description	

Revision Log

Revision No.	Revision Date	Result / Comment
1	2018-06-20	Add results from following tests -Climate test
2	2018-06-27	Add results from DUT 12 to 20

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1 Product information

Test Sample DUT	Article Number	LOT	UID	Results			
				Remarks	Passed	Not passed	See test page
1	LM809M3-4,63	8017248EM8	180200027581		X		
2	LM809M3-4,63	8017248EM8	180200027581		X		
3	LM809M3-4,63	8017248EM8	180200027581		X		
4	LM809M3-4,63	8017248EM8	180200027581		X		
5	LM809M3-4,63	8017248EM8	180200027581		X		
6	LM809M3-4,63	8017248EM8	180200027581		X		
7	LM809M3-4,63	8017248EM8	180200027582		X		
8	LM809M3-4,63	8017248EM8	180200027582		X		
9	LM809M3-4,63	8017248EM8	180200027582		X		
10	LM809M3-4,63	8017248EM8	180200027582		X		
11	LM809M3-4,63	8017248EM8	180200027582		X		
12	LM809M3-4,63	8017248EM8	180200027582	6 samples are tested	X		
13	LM809M3-4,63	?	180200028408	6 samples are tested	X		
14	LM809M3-4,63	8127020EM8	180200028407	3 samples are tested		X	
15	LM809M3-4,63	B67480H019	180200028405	6 samples are tested	X		
16	LM809M3-4,63	JK9943G019	180200028406	6 samples are tested	X		
17	LM809M3-4,63	?	180200028340	6 samples are tested	X		
18	LM809M3-4,63	?	180200028316	6 samples are tested	X		
19	LM809M3-4,63	?	180200028309	6 samples are tested	X		
20	LM809M3-4,63	5111869EM5	180300012855	6 samples are tested	X		

2 Summary of test results

Test requirements						Test Results					
Test Number	Test	Specification / Standard	Required Level	Failure Criterion	Tested by / Responsible	Reached level	Reached Failure Criterion	Passed	Not Passed	See test page	Date of test (yyyy-mm-dd)
Climate / Temperature Test											
	Temperature Test										
4.1	Temperature Test	-	-	-	ABR	-	-			X	2018-06-20

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4 General information and device description

Description of DUT

1-20	3-Pin Microprocessor Reset Circuits
Description of test setup, special test requirements (e.g. Bus system Test Software)	

5 Single Tests

5.1 Temperature Test

Check the function of 3-Pin Microprocessor Reset Circuits at different temperature's.

5.1.1 Setup one

The DUT was assembled on the PCB and the input Voltage was connected to stable 5V from internal power supply unit of the PCB. The reset signal output of DUT was connected to the scope probe and both signals measured from the reset generator pins.

The DUT is assembled on POS044 PCB. R23 is removed, so that the output from reset generator is not connected to reset pin from IC.

5.1.2 Result

DUT	Setup	Temperature	Passed	Fail	Information
1	1	23 °C	X		
2	1	23 °C	X		
3	1	23 °C	X		
4	1	23 °C	X		
5	1	23 °C	X		
6	1	23 °C	X		
7	1	23 °C	X		
8	1	23 °C	X		
9	1	23 °C	X		
10	1	23 °C	X		
11	1	23 °C	X		
12	1	23 °C	X		6 samples are tested (only one scope, because all scope pictures are similar)
13	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
14	1	23°C		X	3 samples are tested, only a scope from the sample with delay to high (500ms)
15	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
16	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
17	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
18	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
19	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)
20	1	23°C	X		6 samples are tested (only one scope, because all scope pictures are similar)

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DUT	Setup	Temperature	Passed	Fail	Information
1	1	80 °C	X		Check if running @ 80°C / No scope picture
2	1	80 °C	X		Check if running @ 80°C / No scope picture
3	1	80 °C	X		Check if running @ 80°C / No scope picture
4	1	80 °C	X		Check if running @ 80°C / No scope picture
5	1	80 °C	X		Check if running @ 80°C / No scope picture
6	1	80 °C	X		Check if running @ 80°C / No scope picture
7	1	80 °C	X		Check if running @ 80°C / No scope picture
8	1	80 °C	X		Check if running @ 80°C / No scope picture
9	1	80 °C	X		Check if running @ 80°C / No scope picture
10	1	80 °C	X		Check if running @ 80°C / No scope picture
11	1	80 °C	X		Check if running @ 80°C / No scope picture
12	1	80 °C	X		Check if running @ 80°C / No scope picture
13	1	80° C	X		Check if running @ 80°C / No scope picture
14	1	80° C		X	DUT stop working at 80° C Check if running @ 80°C / No scope picture
15	1	80° C	X		Check if running @ 80°C / No scope picture
16	1	80° C	X		Check if running @ 80°C / No scope picture
17	1	80° C	X		Check if running @ 80°C / No scope picture
18	1	80° C	X		Check if running @ 80°C / No scope picture
19	1	80° C	X		Check if running @ 80°C / No scope picture
20	1	80° C	X		Check if running @ 80°C / No scope picture

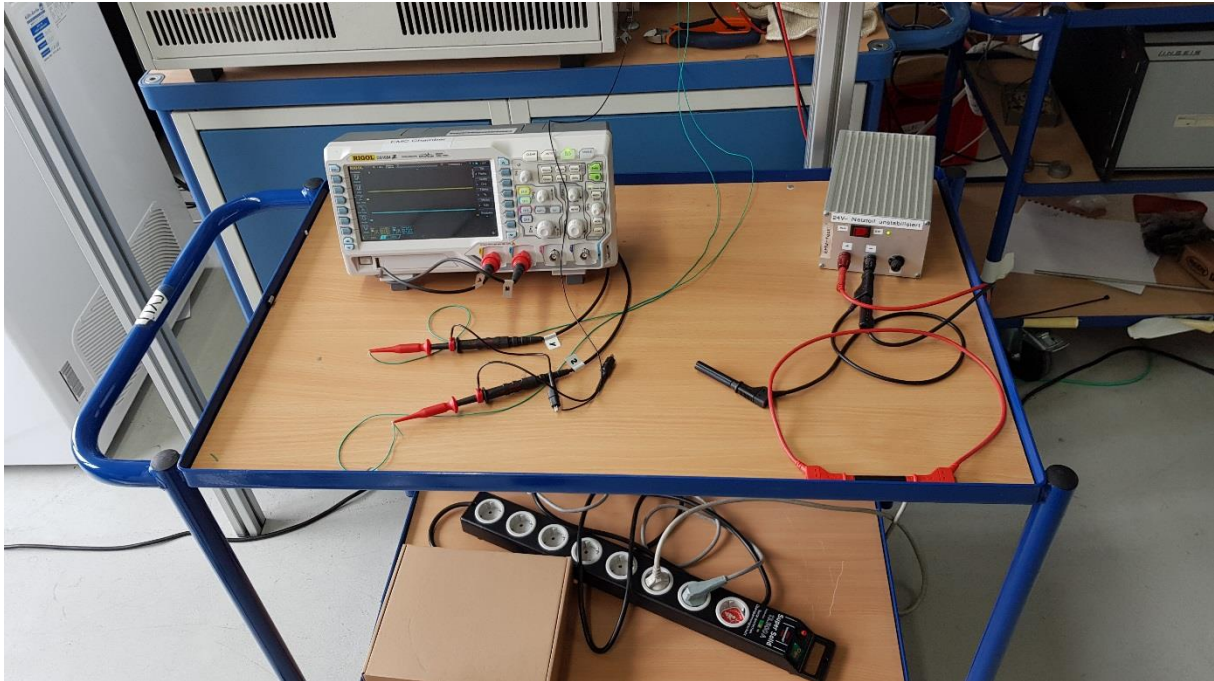
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5.1.3 General Setup

Pictures



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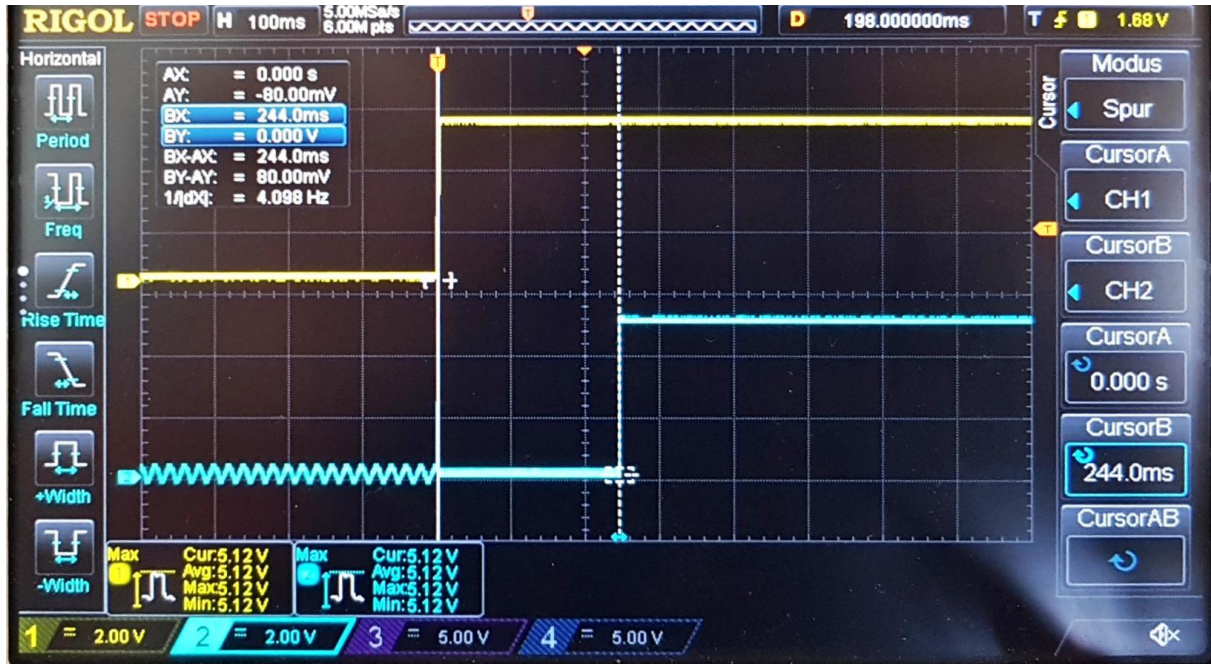
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5.1.3.1 Measurement Pictures from Oscilloscope

DUT 1

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 2

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 3

Channel 1: 5V DC (input reset generator)

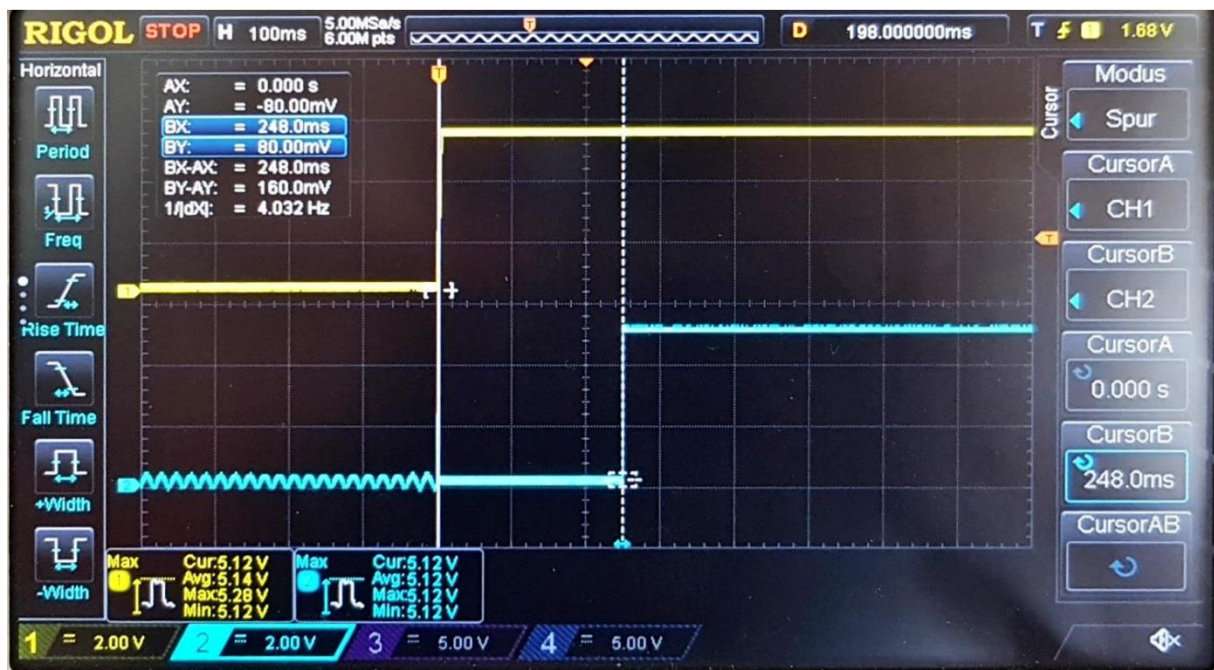
Channel 2: Reset signal of the reset generator



DUT 4

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 5

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 6

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 7

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 8

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 9

Channel 1: 5V DC (input reset generator)

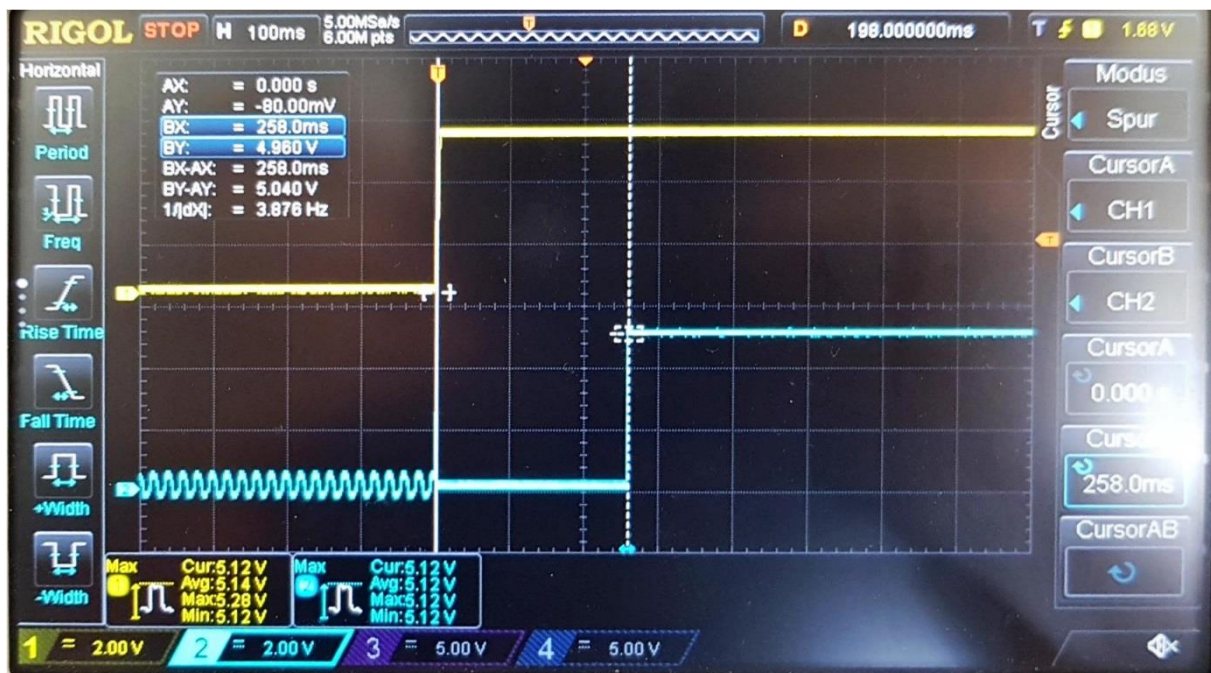
Channel 2: Reset signal of the reset generator



DUT 10

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 11

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 12

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 13

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 14

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 15

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 16

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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DUT 17

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 18

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator

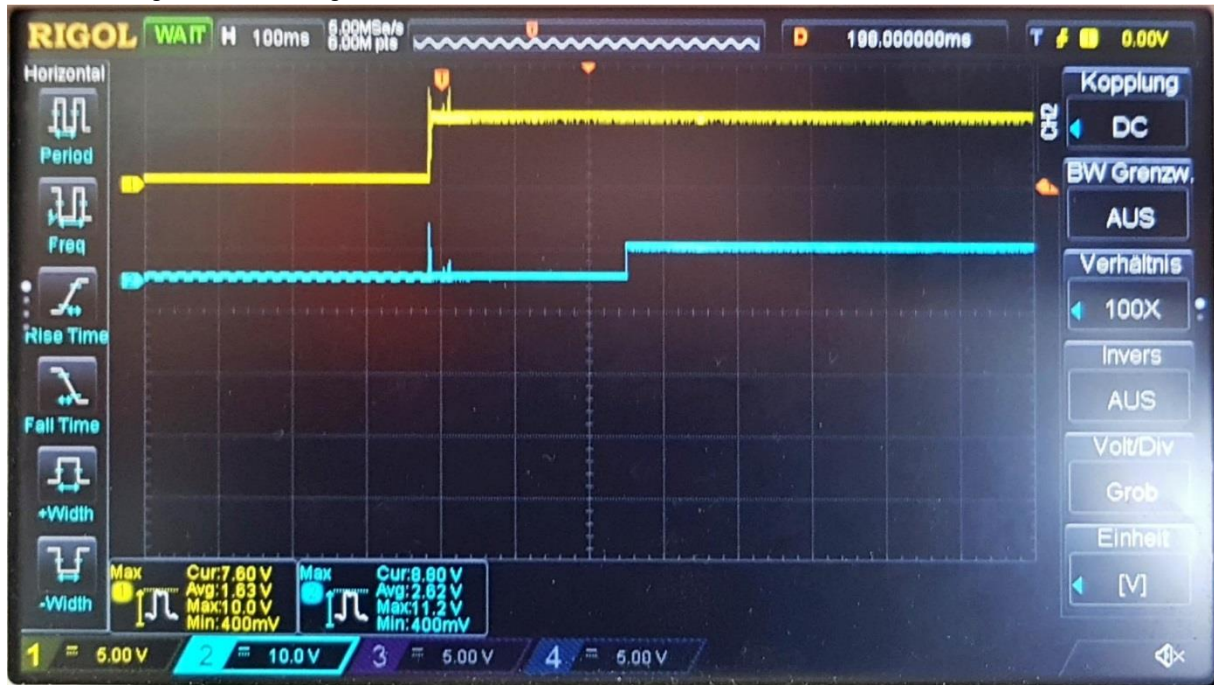


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DUT 19

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



DUT 20

Channel 1: 5V DC (input reset generator)

Channel 2: Reset signal of the reset generator



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6 Laboratory used devices

EDM	Device	Type	Manufacturer	Last calibration
Temperature Measurement				
	Temperature chamber	MK 53	WTC Binder	-
	Oscilloscope	DS1054Z	Rigol	2017/12
	Power supply	-	Centitech GmbH	-