



中国认可
国际互认
检测
TESTING
CNAS L12524

Test Report

Sample Name: The integrated circuit

Part Number: SN74HC245PWR

Manufacturer: TI

Customer:

Shenzhen Chuangxin Online Testing Service Co., Ltd.

December 05, 2025



Test Report

Customer:

Customer Address:

Sample Name: The integrated circuit

Part Number: SN74HC245PWR

Manufacturer: TI

Date Code: N/A

Package Type: TSSOP-20

Quantity Received: 50 PCS

Quantity Inspected: 50 PCS

Date Received: 11/27/2025

Date Tested: 11/27/2025/15: 20 - 11/28/2025/16: 40

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Tested by _____

Issued by

Inspected by _____

(Stamp)

Approved by _____

Test Items And Conclusions

Results Analysis			Conclusion
According to the requirements of the client, 50 samples were subjected to one type of inspection: key functional test(KFT). None of the one inspection revealed any standard defects.			✓
Test Items	Quantity (PCS)	Test Standard	Result
☒ Documentation and Packaging inspection	50	SAE AS6171/2A-2017	✓
☐ External visual inspection	N/A	N/A	N/A
☐ Top permanency test	N/A	N/A	N/A
☐ Radiography(X-ray)	N/A	N/A	N/A
☐ XRF test	N/A	N/A	N/A
☐ Pin correlation test	N/A	N/A	N/A
☒ Key functional test(KFT)	50	MIL-STD-883L-2 019 3005.1/3006.1/3007.1/3009.1/3010.1	✓
☐ SAT test	N/A	N/A	N/A
☐ Solderability Analysis	N/A	N/A	N/A
☐ Reflow soldering	N/A	N/A	N/A
☐ Internal visual inspection	N/A	N/A	N/A

Result Status:
 ✓ Acceptable
 ✗ Nonconforming
 ● Suspicious
 N/A Not tested & not applicable



Test Equipment

Device name	Serial No.	Model No.	Calibration Due Date
Optical microscope	TC-S-WG-007	SEZ-260	2026/07/07
Digital-analog mixed signal testing machine	TC-S-GN-023	TR6850	2026/07/07
Datasheet Reference 《TI SN74HC245PWR》 :			
https://www.ti.com.cn/cn/lit/ds/symlink/sn74hc245.pdf?ts=1718330312348&ref_url=https%253A%252F%252Fwww.ti.com.cn%252Fproduct%252Fen%252FSN74HC245			

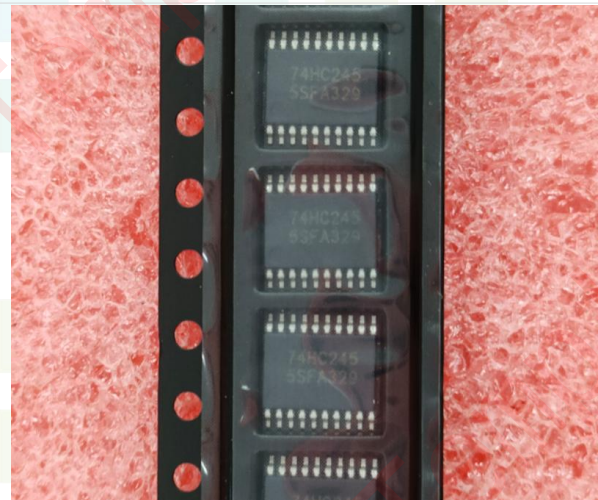
1. Documentation and Packaging inspection:

Outer Box	N/A	Outer Box Size (cm)	N/A
Inner Box	N/A	Inner Box Size (cm)	N/A
Total Weight	58 g	Date Code	N/A
COO	N/A	Material Number	N/A
Quantity Received	50 PCS	Quantity Inspected	50 PCS
Moisture Protection	N/A	ESD Protection	Exist
Sample No (Date Code + Serial No)	#1~#40		

Received view-1



Received view-2



2. Key functional test(KFT):

Applicable standard: **MIL-STD-883L-2019**

3005.1/3006.1/3007.1/3009.1/3010.1

Ambient temperature: 25 ± 3 °C Relative humidity: 45% ~ 65% RH

The customer provided 50 PCS of samples **TI** Part Number **SN74HC245PWR**

for analysis and 50 PCS for key functional test. The details are as follows:

Using TR6850 verified the following parameters:

-High Level Input Voltage: $V_{IH} = 4.2$ V MIN @ $V_{CC} = 6$ V;

-Low Level Input Voltage: $V_{IL} = 1.8$ V MAX @ $V_{CC} = 6$ V;

-High level output voltage: $V_{OH} = 5.34$ V MIN @ $V_{CC} = 6$ V, $I_{OH} = -7.8$ mA,

$V_I = V_{IH}$ or V_{IL} ;

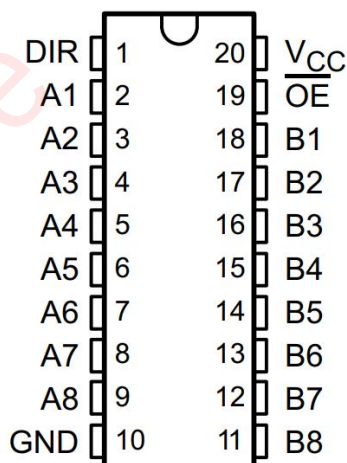
-Low level output voltage: $V_{OL} = 0.33$ V MAX @ $V_{CC} = 6$ V, $I_{OH} = -7.8$ mA,

$V_I = V_{IH}$ or V_{IL} ;

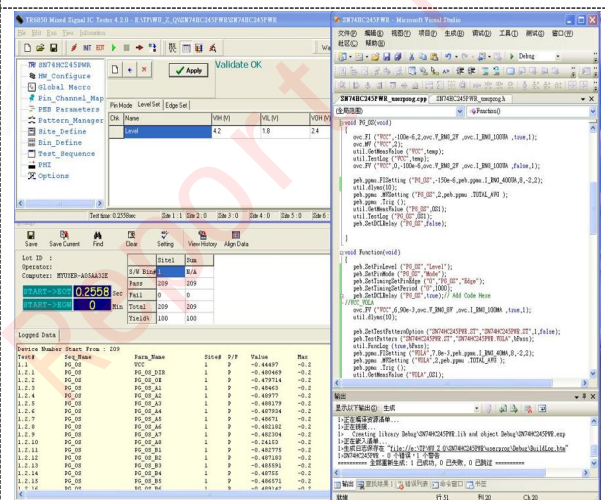
-Input Current: $I_{IN} = \pm 1000$ nA MAX @ $V_{CC} = 6$ V, $V_I = V_{CC}$.

50PCS samples passed key functional test.

Device pinout



Test Overview



Test Results-1 (Pass)

Datalog: SN74HC245PW Lot ID: Operator: Computer: MYUSER-A05AA32E S/W Bin: 1 Pass: 209 Fail: 0 Total: 209 Yield: 100									
Logged Data Service Number Start From: 209 Test no.: 2.0, Seq. Item: Function START: SN74HC245PW.ST(Physical: 0), STOP: SN74HC245PW.VOLA(Physical: 1), FAIL LIMIT: 1 Test Result: Sital: PASS 2.1.1 Function VOLA_A1 1 P 0.194108 0.33 NA V 2.1.2 Function VOLA_A2 1 P 0.226779 0.33 NA V 2.1.3 Function VOLA_A3 1 P 0.221272 0.33 NA V 2.1.4 Function VOLA_A4 1 P 0.173428 0.33 NA V 2.1.5 Function VOLA_A5 1 P 0.167189 0.33 NA V 2.1.6 Function VOLA_A6 1 P 0.159023 0.33 NA V 2.1.7 Function VOLA_A7 1 P 0.164196 0.33 NA V 2.1.8 Function VOLA_A8 1 P 0.177155 0.33 NA V Test no.: 2.0, Seq. Item: Function START: SN74HC245PW.ST(Physical: 0), STOP: SN74HC245PW.VOLB(Physical: 3), FAIL LIMIT: 1 Test Result: Sital: PASS 2.2.1 Function VOLB_B1 1 P 0.179595 0.33 NA V 2.2.2 Function VOLB_B2 1 P 0.176556 0.33 NA V 2.2.3 Function VOLB_B3 1 P 0.160626 0.33 NA V 2.2.4 Function VOLB_B4 1 P 0.160014 0.33 NA V 2.2.5 Function VOLB_B5 1 P 0.171518 0.33 NA V 2.2.6 Function VOLB_B6 1 P 0.183026 0.33 NA V 2.2.7 Function VOLB_B7 1 P 0.178483 0.33 NA V 2.2.8 Function VOLB_B8 1 P 0.174442 0.33 NA V Test no.: 2.0, Seq. Item: Function START: SN74HC245PW.ST(Physical: 0), STOP: SN74HC245PW.VOLB(Physical: 4), FAIL LIMIT: 1 Test Result: Sital: PASS 2.4.1 Function VOLB_B1 1 P 0.938 NA 5.34 V 2.4.2 Function VOLB_B2 1 P 0.84058 NA 5.34 V 2.4.3 Function VOLB_B3 1 P 0.84277 NA 5.34 V 2.4.4 Function VOLB_B4 1 P 0.84277 NA 5.34 V 2.4.5 Function VOLB_B5 1 P 0.85616 NA 5.34 V 2.4.6 Function VOLB_B6 1 P 0.84204 NA 5.34 V 2.4.7 Function VOLB_B7 1 P 0.82724 NA 5.34 V 2.4.8 Function VOLB_B8 1 P 0.83886 NA 5.34 V 3.1.1 II II_07B 1 P 0.646058-3 1 -1 uA 3.1.2 II II_08 1 P -0.0214576 1 -1 uA -RDP: Bin# = 1									

Test Results-2 (Pass)

Datalog: SN74HC245PW Lot ID: Operator: Computer: MYUSER-A05AA32E S/W Bin: 1 Pass: 209 Fail: 0 Total: 209 Yield: 100									
Logged Data Test Result: Sital: PASS 2.3.1 Function VOLA_A1 1 P 5.8283 NA 5.34 V 2.3.2 Function VOLA_A2 1 P 5.80939 NA 5.34 V 2.3.3 Function VOLA_A3 1 P 5.9319 NA 5.34 V 2.3.4 Function VOLA_A4 1 P 5.89619 NA 5.34 V 2.3.5 Function VOLA_A5 1 P 5.93723 NA 5.34 V 2.3.6 Function VOLA_A6 1 P 5.89711 NA 5.34 V 2.3.7 Function VOLA_A7 1 P 5.93816 NA 5.34 V 2.3.8 Function VOLA_A8 1 P 5.85795 NA 5.34 V Test no.: 2.0, Seq. Item: Function START: SN74HC245PW.ST(Physical: 0), STOP: SN74HC245PW.VOLB(Physical: 3), FAIL LIMIT: 1 Test Result: Sital: PASS 2.2.1 Function VOLB_B1 1 P 0.179595 0.33 NA V 2.2.2 Function VOLB_B2 1 P 0.176556 0.33 NA V 2.2.3 Function VOLB_B3 1 P 0.160626 0.33 NA V 2.2.4 Function VOLB_B4 1 P 0.160014 0.33 NA V 2.2.5 Function VOLB_B5 1 P 0.171518 0.33 NA V 2.2.6 Function VOLB_B6 1 P 0.183026 0.33 NA V 2.2.7 Function VOLB_B7 1 P 0.178483 0.33 NA V 2.2.8 Function VOLB_B8 1 P 0.174442 0.33 NA V Test no.: 2.0, Seq. Item: Function START: SN74HC245PW.ST(Physical: 0), STOP: SN74HC245PW.VOLB(Physical: 4), FAIL LIMIT: 1 Test Result: Sital: PASS 2.4.1 Function VOLB_B1 1 P 0.938 NA 5.34 V 2.4.2 Function VOLB_B2 1 P 0.84058 NA 5.34 V 2.4.3 Function VOLB_B3 1 P 0.84277 NA 5.34 V 2.4.4 Function VOLB_B4 1 P 0.84277 NA 5.34 V 2.4.5 Function VOLB_B5 1 P 0.85616 NA 5.34 V 2.4.6 Function VOLB_B6 1 P 0.84204 NA 5.34 V 2.4.7 Function VOLB_B7 1 P 0.82724 NA 5.34 V 2.4.8 Function VOLB_B8 1 P 0.83886 NA 5.34 V 3.1.1 II II_07B 1 P 0.646058-3 1 -1 uA 3.1.2 II II_08 1 P -0.0214576 1 -1 uA -RDP: Bin# = 1									

Key functional test(KFT)

Result:

Total quantity tested

50 PCS

Total quantity passed

50 PCS

Total quantity failed

0 PCS

Conclusion

50 PCS samples passed the parameter test.

Key functional test(KFT) conclusion:

Tested parameters

Conclusion

High Level Input Voltage

Acceptable

Low Level Input Voltage

Acceptable

High level output voltage

Acceptable

Low level output voltage

Acceptable

Input Current

Acceptable

-End of Report-

Disclaimer

1. The test report is invalid without the stamp of “company report seal” and “cross-page seal”.
2. The copy of the test report is invalid without the stamp of “company report seal” and “cross-page seal”.
3. The test report is invalid without the signatures of operator, supervisor and manager.
4. A modified or partial copy of the test report is invalid.
5. When there is disagreement with the test report, please submit the issue to us within 15 days from the date of receipt. Overdue information will not be accepted.
6. The test report is only reflective of the test results of testing samples, not of the quality of batch products.
7. The * indicates subcontract test data.
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