

Test Procedure for the NCS22X0A Evaluation Board

ON Semiconductor®



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NCS2200A is a single low power comparator. NCS2220A is a dual low power comparator. The test is simply to power up the device and make sure the device is functional.

Test Condition for NCS2200A and NCS2220A

- Test the board at the following power supply voltage and temperature
 - o Voltage: 0.85V, 3V, 6V
 - o Temperature: Room

Test Procedure for NCS2200A

- Power up the device.
 - o Place a jumper to short GND and VEE.
 - o Short one of the inputs to ground, short the other input to Vcc.
 - o Read the power supply current and verify that it is according to the data sheet specification.
- Functionality Test
 - o Short negative input to ground and short positive input to Vcc, the output voltage should be Vcc.
 - o Short negative input to Vcc and short positive input to ground, the output voltage should be ground.

Test Procedure for NCS2220A

- Power up the device
 - o Same as NCS2200A
 - This is a dual, so both comparator inputs need to be connected.
 - The current reading should be approximately a factor of two higher than the reading for NCS2200A.
- Functionality Test
 - o Same as NCS2200A

Perform the same test on both comparators.