

# 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.