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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Test Procedure for the NCP348G Evaluation Board

ON Semiconductor®



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## Equipment

0-7V, 2A supply.

5V supply. (Low current)

2.5 ohms / 10W resistor (minimum 10 W)

Multimeter.

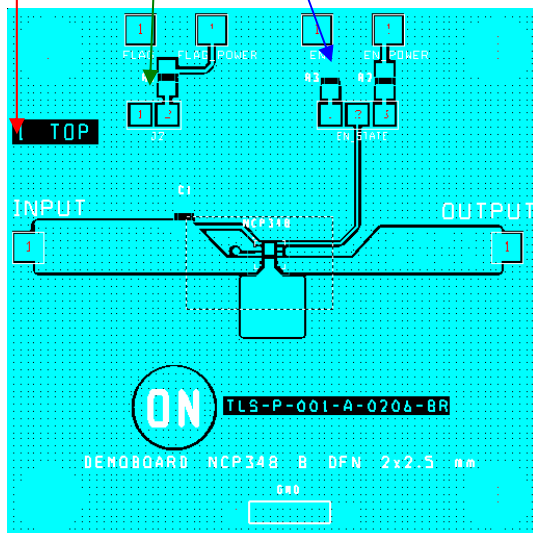
## Test Procedure

### Setup

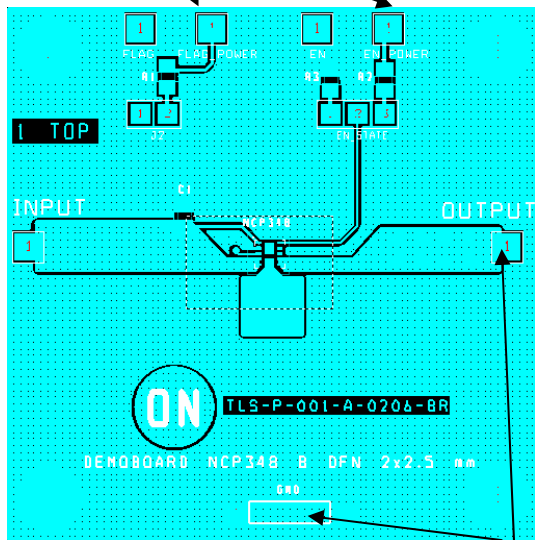
\* Connect **VIN supply** between Vin and GND: set to 0V

\* Connect J2 shunt

\* Connect EN-state shunt on the left hand



Connect +5V supply on FLAG\_POWER pin and EN\_POWER pin. (use same supply)

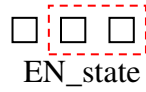


Connect 2.5 ohms load between Vout and GND.

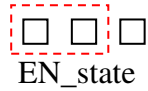
## Part 1

1. Set **V<sub>IN</sub> supply** at 0.5V. Check Flag level = + 5V on FLAG pin.
2. Set **V<sub>IN</sub> supply** at 1.2V. Check Flag level = + 0V on FLAG pin. Check Vout=0V
3. Set **V<sub>in</sub> supply** = 3.0V. Measure **V<sub>in</sub> supply** current consumption. (Typical 70μA. Max 100 μA). Check Vout = 0 V
4. Set **V<sub>in</sub> supply** = 5V. Measure **V<sub>in</sub> supply** current (around 2A)
5. Measure Voltage between Vin and Vout test points. Calculate R<sub>dson</sub> to check solder.  
 $R_{dson} = (V_{in} - V_{out}) / I_{vin}$ . (typical 70m ohms. Max 120 mohms)
6. Disconnect output load. Check Vout level. V<sub>in</sub> = Vout = 5V. Check Flag level = 5 V
7. Measure current consumption. Typical 170μA. Max 300μA.

## Part 2



1. Put EN\_state shunt to right hand.  
Measure  $V_{out} = 0V$ , FLAG level = +5V



2. Put EN\_state shunt to left hand.
3. Set  $V_{in} = 7V$ .  
Measure  $V_{out} = 0V$ , Check FLAG level = 0 V

## Turn Off

1. Decrease  $V_{in}$  level = 0V.
2. Disconnect EN and FLAG supply.
3. Disconnect  $V_{in}$  supply.