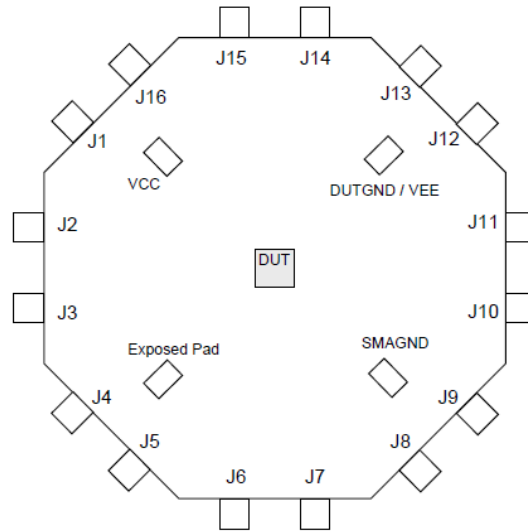


NB7L14MNGEVB Test Procedure



	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14	J15	J16
Pin#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pin Name	IN	VT	VREFAC	INb	GND	Q3b	Q3	VCC	Q2b	Q2	Q1b	Q1	VCC	Q0b	Q0	GND

Board Check

Ground the VEE/DUT GND, SMA and EP (Surface Mount Test Points)

Apply 3.3 V on VCC (Surface Mount Test Point)

- Measure Current on VCC supply, should be roughly 80 mA to 90 mA
- Measure VREFAC (Pin3), should be roughly 2.2 V
- Measure Resistance across VT (Pin2) to IN (Pin1), should be roughly 50 Ohms
- Measure Resistance across VT (Pin2) to INb (Pin4), should be roughly 50 Ohms
- Measure Voltage on IN (Pin1) and INb (Pin4), should be roughly 1.8 V
- Measure Voltage on Q0 (Pin15), Q0b (Pin14), Q1 (Pin12), Q1b (Pin11), Q2 (Pin10), Q2b (Pin9), Q3 (Pin7) and Q3b (Pin6), should be roughly 2.4 V

Functional Check (outputs Toggle)

Ground INb (Pin4)

Apply 3.3 V on IN (Pin1)

- Measure Voltage on Q0 (Pin15), Q1 (Pin12), Q2 (Pin10) and Q3 (Pin7), should be roughly 2.8 V
- Measure Voltage on Q0b (Pin14), Q1b (Pin11), Q2b (Pin10) and Q3b (Pin6), should be roughly 1.9 V
- Check Current on VCC supply, should be roughly 120 mA to 130 mA

Ground IN (Pin1)

Apply 3.3 V on INb (Pin4)

- Measure Voltage on Q0 (Pin15), Q1 (Pin12), Q2 (Pin10) and Q3 (Pin7), should be roughly 1.9 V
- Measure Voltage on Q0b (Pin14), Q1b (Pin11), Q2b (Pin10) and Q3b (Pin6), should be roughly 2.8 V
- Check Current on VCC supply, should be roughly 120 mA to 130 mA