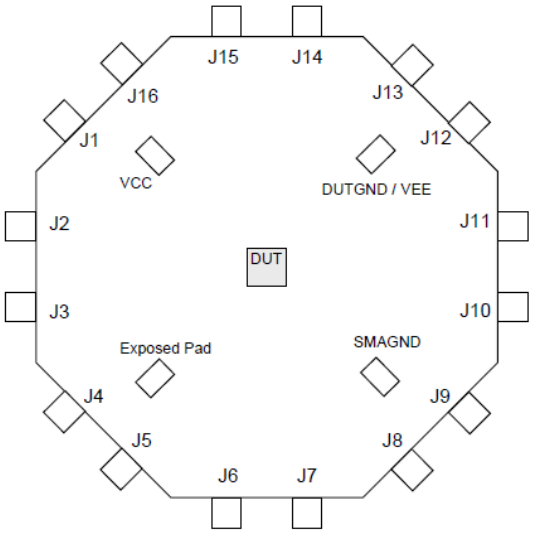
NB6N11SMNGEVB Test Procedure



	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	Q0	Q0b	Q1	Q1b	VCC	NC	VEE	VEE	VTDb	Db	D	VTD	VCC	VCC	VCC	VCC

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 30 mA to 40 mA
- Measure Resistance across VTD (Pin12) to D (Pin11), should be roughly 50 Ohms
- Measure Resistance across VTDb (Pin9) to Db (Pin10), should be roughly 50 Ohms
- Measure Voltage on Q0 (Pin1), Q0b (Pin2), Q1 (Pin3) and Q1b (Pin4), should be roughly 1.2 to 1.3 V

Functional Check (outputs Toggle)

Ground Db (Pin10)
Apply 3.3 V on D(Pin11)

- Measure Voltage on Q0 (Pin1), Q1 (Pin3), should be roughly 1.8 V
- Measure Voltage on Q0b (Pin2), Q1b (Pin4), should be roughly 0.85 V
- Check Current on VCC supply, should be roughly 30 mA to 40 mA

Ground D(Pin11)
Apply 3.3 V on db (Pin10)

- Measure Voltage on Q0 (Pin1), Q1 (Pin3), should be roughly 0.85 V
- Measure Voltage on Q0b (Pin2), Q1b (Pin4), should be roughly 1.8 V
- Check Current on VCC supply, should be roughly 30 mA to 40 mA