

Test Procedure for the NCP 1582/1583/1582A Evaluation Board



Table 1: Required Equipment

Dual channel Oscilloscope	Agilent 34401A Multimeter	Four Red Test Leads
Four Black Test Leads	Two sets of Positive and Negative Probes Leads for the Oscilloscope	KIKUSUI PLZ153W Load
Agilent E3632A Power Supply	One NCP1582 Evaluation Board	

Test Procedure:

1. Apply an input voltage, $V_{IN} = 5V$ across TP1 and TP2.
 - Observe TP4 and TP8 waveforms on CH1 and CH2 of the scope. No overlap must occur.
 - V_{in} can be varied from 4.5V to 12V and output voltage, V_{OUT} , (TP6) must be in regulation (0.8V) through this range of V_{IN}
2. Check I_{IN} , V_{OUT} , and output ripple
3. Apply a 20A load after power up and observe TP4 and TP8 again for normal operation and V_{OUT} regulation. (across TP7 and TP9).
4. Check for switching frequency on TP4. 350Khz for NCP1582. 300KHZ for NCP1583.