Demo Manual DC395A
LTC3202 White LED Driver
Fractional Charge Pump

QUICK START GUIDE

DC395A is set up to easily evaluate the LTC3202 high efficiency, low noise white LED driver circuit. Refer to Figure 1 for equipment setup and follow the procedure outlined below.

- Before turning on the power supply connect a 3.3V, 500mA bench supply to the VIN and GND terminals.
- Connect jumpers JP1 and JP2 in the “1” position.
- Turn on the input supply and observe that the white LEDs light up. The VFB voltage should measure approximately 0.6V.
- For 2/3 brightness connect JP1 to the “0” position and leave JP2 in the “1” position. For 1/3 brightness connect JP2 to the “0” position and leaves JP1 in the “1” position.
- When measuring the input/output voltage ripple care must be taken to avoid a long ground return for the oscilloscope probe. After removing the grabber and outer plastic sleeve from the scope probe, measure the input ripple by touching the probe between VIN and GND. Measure the output ripple by touching the probe between VOUT and GND as shown in Figure 2.

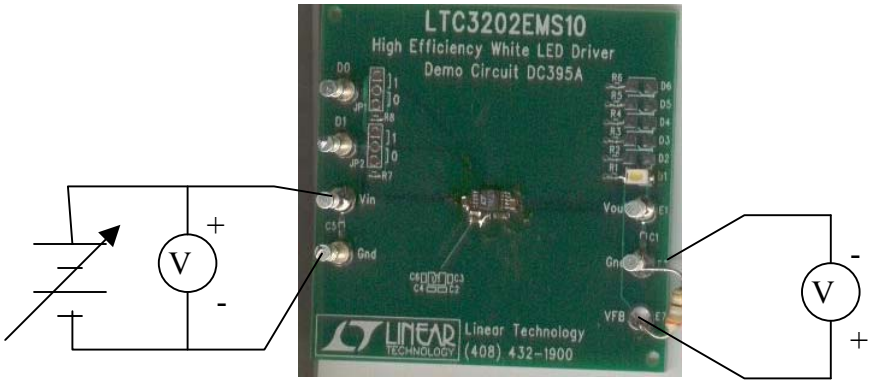


Figure 1 DC395 Test and Measurement Setup

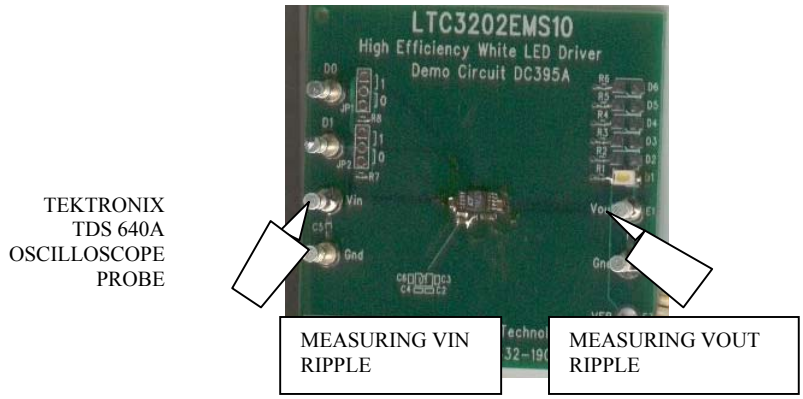


Figure 2 Proper Noise Measurement Technique