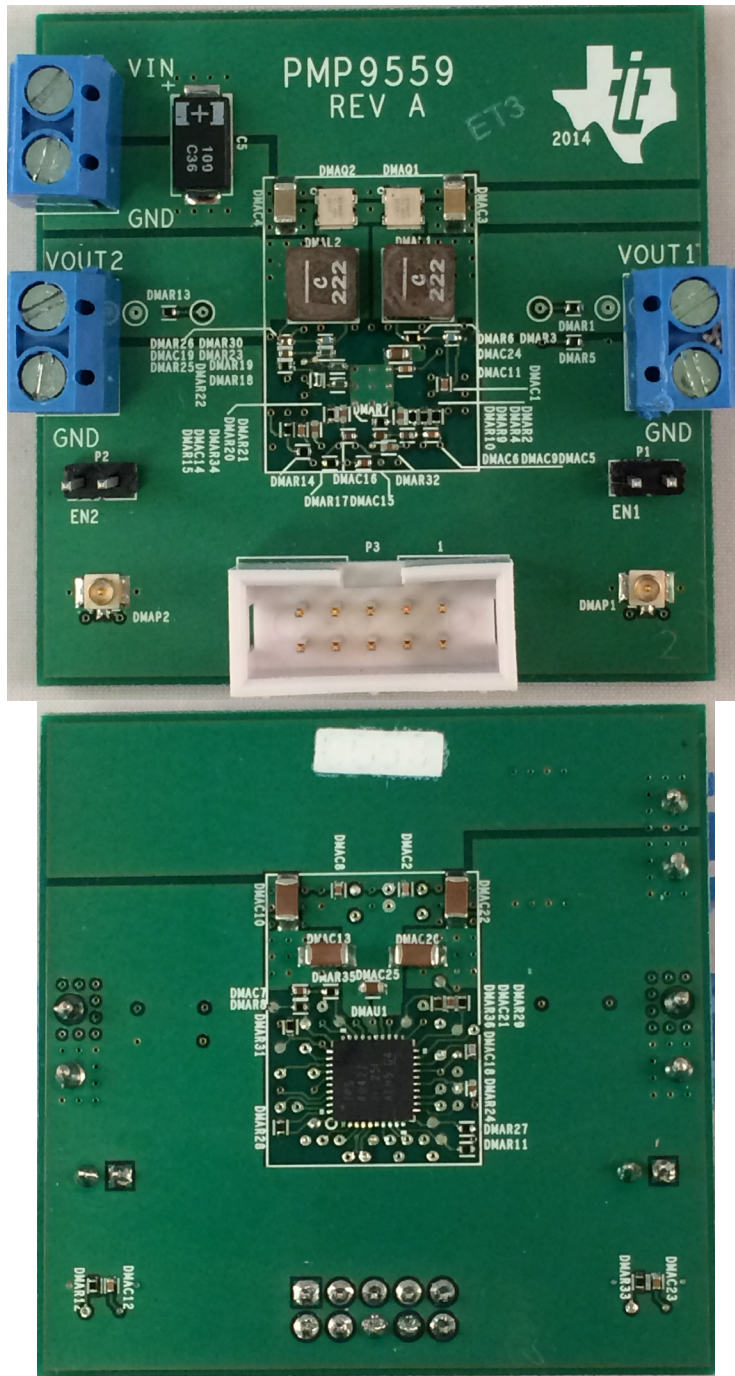
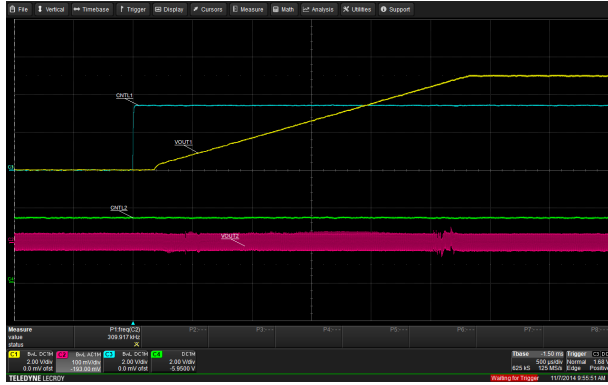


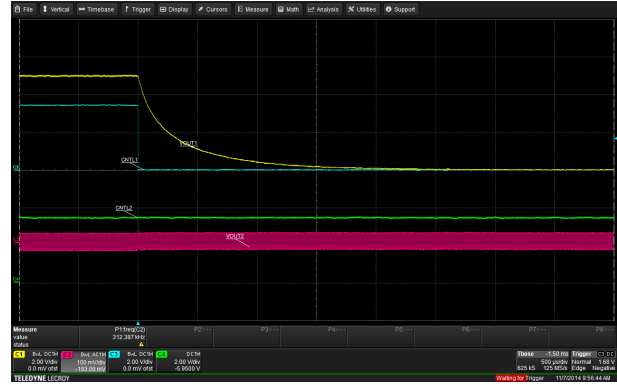
Photo of the prototype



1 Startup and shutdown

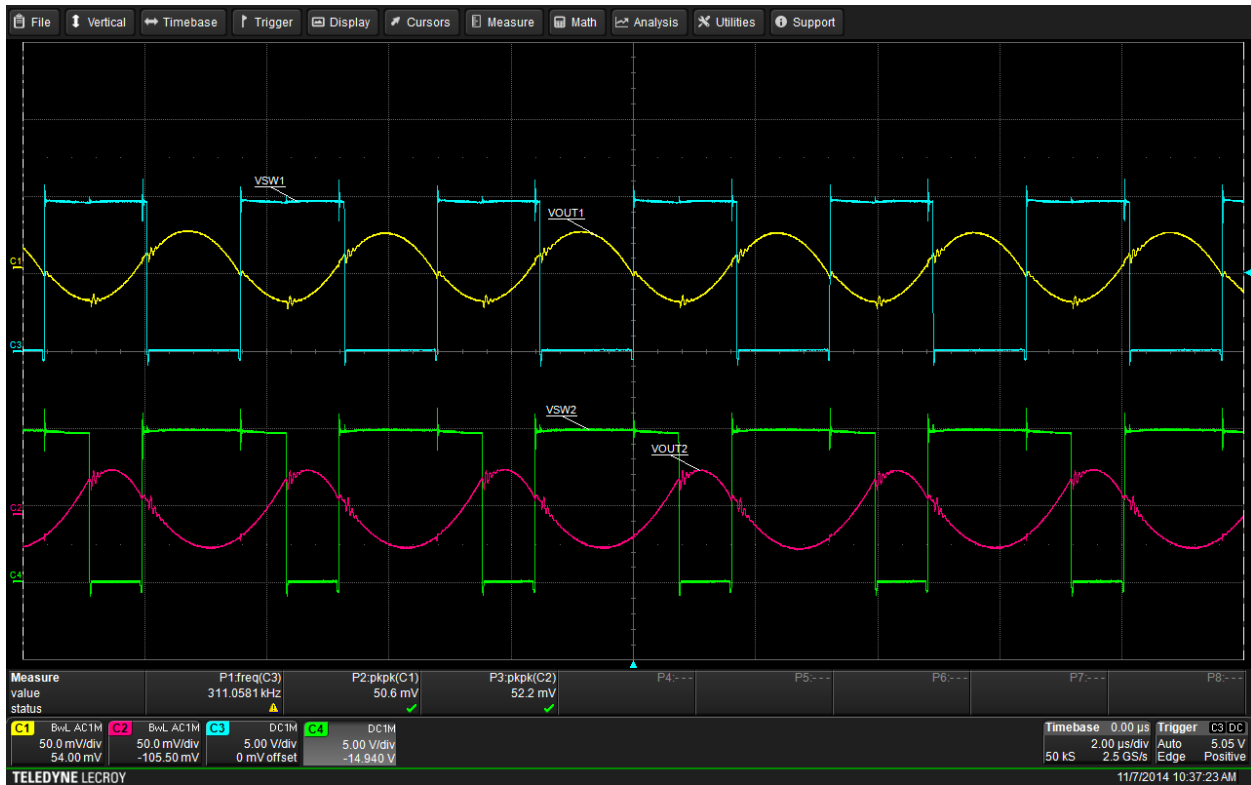


Turn-on, 10Vin, 5.0Vout



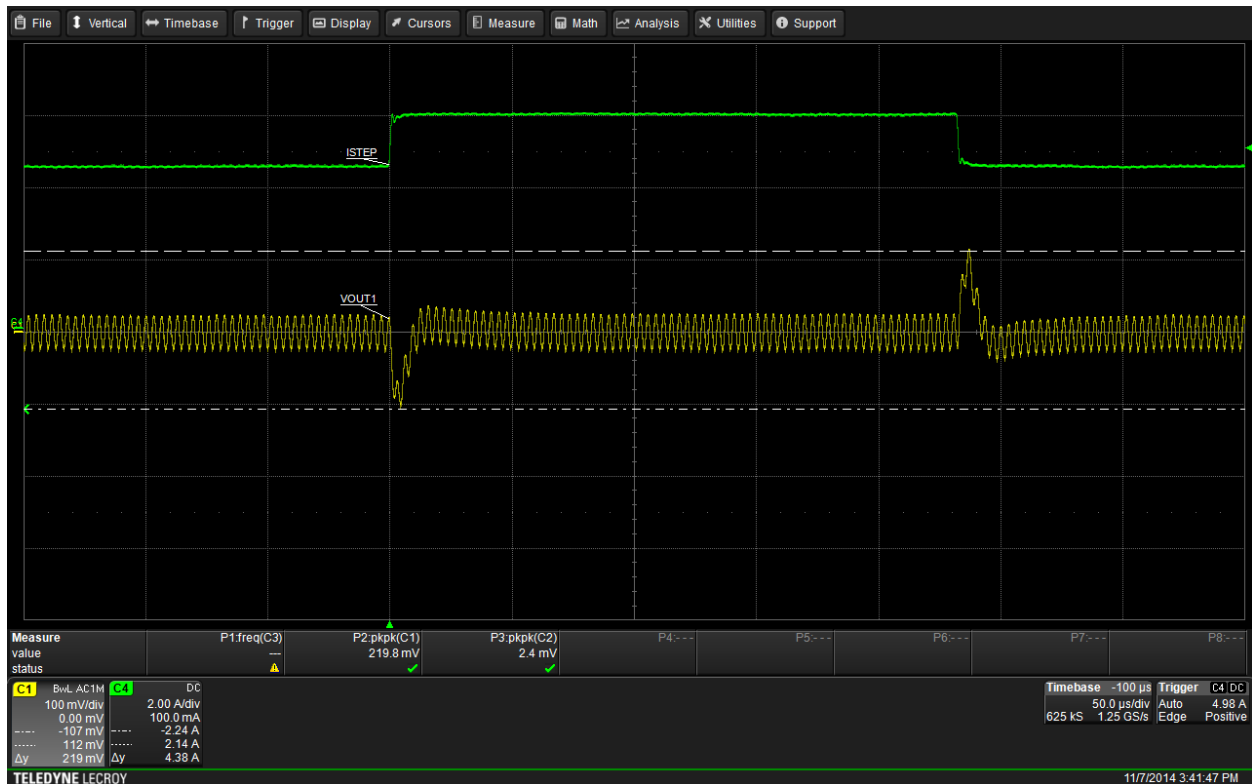
Turn-off, 10Vin, 5.0Vout

2 Ripple



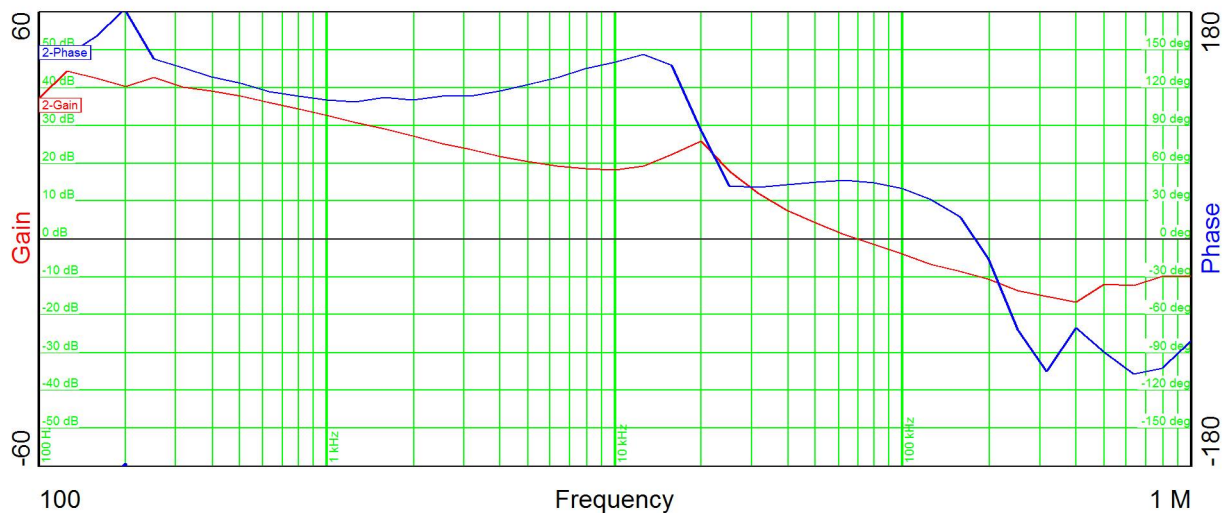
10Vin, 5.0Vout1, 6A Load, 300kHz (COUT1: 2x 47uF, 10V, X5R, 1206 ceramic cap.)
10Vin, 7.0Vout2, 6A Load, 300kHz (COUT1: 2x 47uF, 10V, X5R, 1206 ceramic cap.)

3 Transient



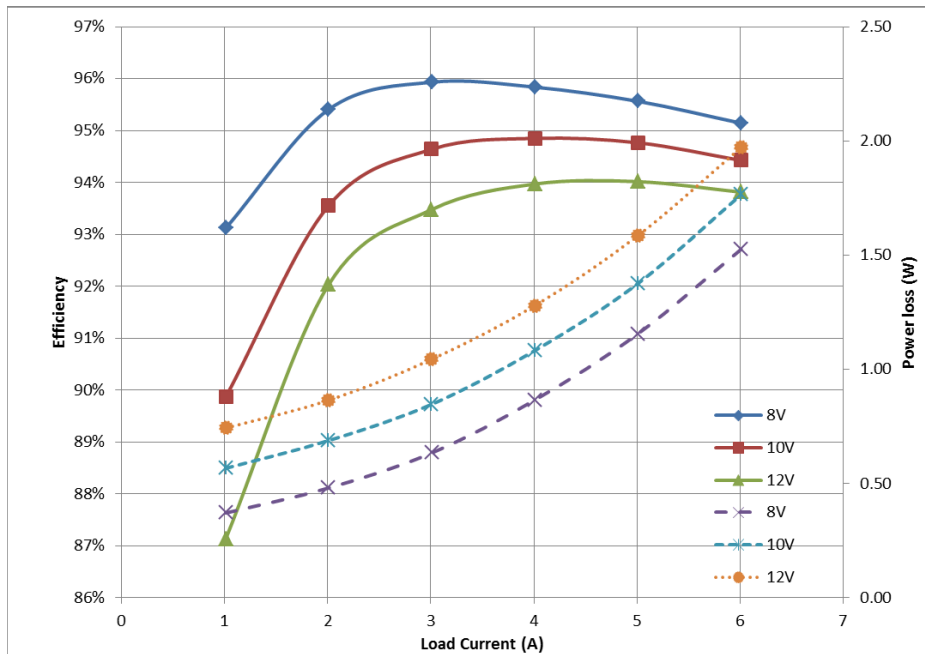
10Vin, 5V/4.5A->6A->4.5A, -85mV/+85mV (-1.7%/+1.7%)

4 Bode Plot



5V/6A, 10Vin, BW=70kHz, PM=46, GM=10dB.

5 Efficiency



Rboot=5.1, Rsw=0, XAL5030-222, 300kHz, 5Vout

6 Thermal



10Vin, 7V/6A, 5V/6A, 300kHz, Tamb=25C, natural convection.
 P1: 7V-FET; P2:5V-FET; P3:7V-IND;P4:5V-IND.

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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