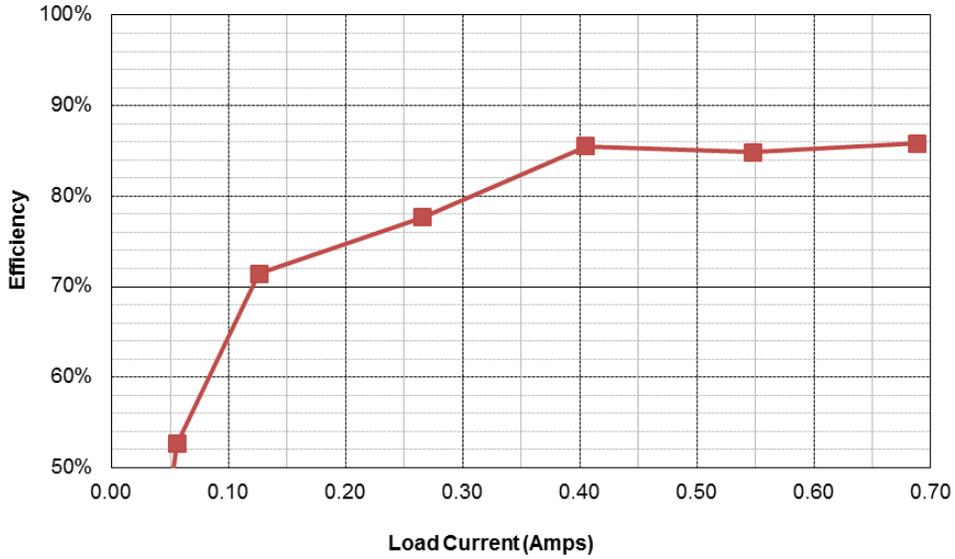


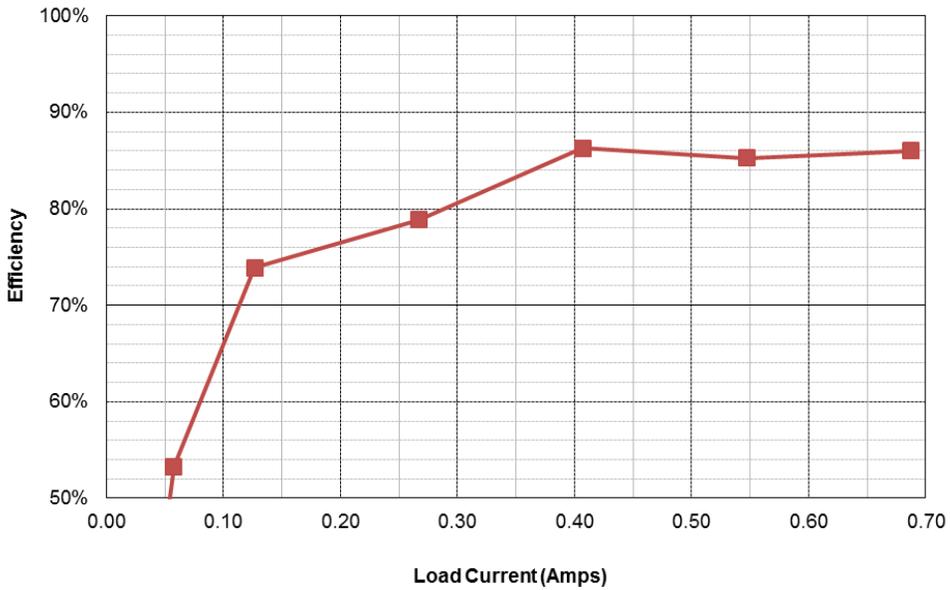
All measurement taken with UMEC UT38806S transformer, 700mA load, 48V input and 20MHz BWL unless noted.

Efficiency

PMP21002 Rev A Efficiency, UMEC UT38806S Transformer

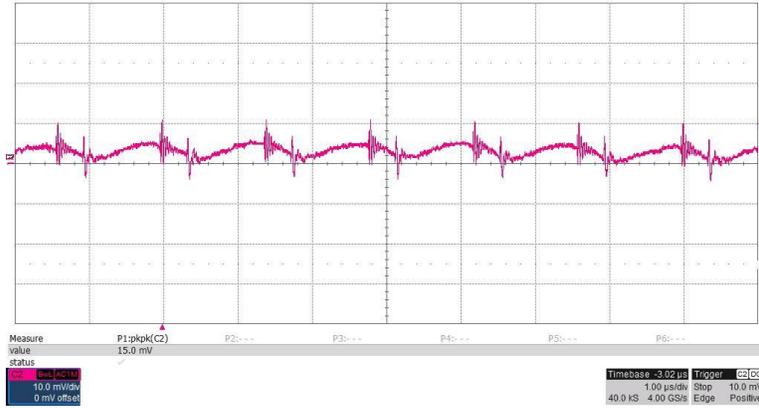


PMP21002 Rev A Efficiency, Mentech TOEP07-0167SG Transformer

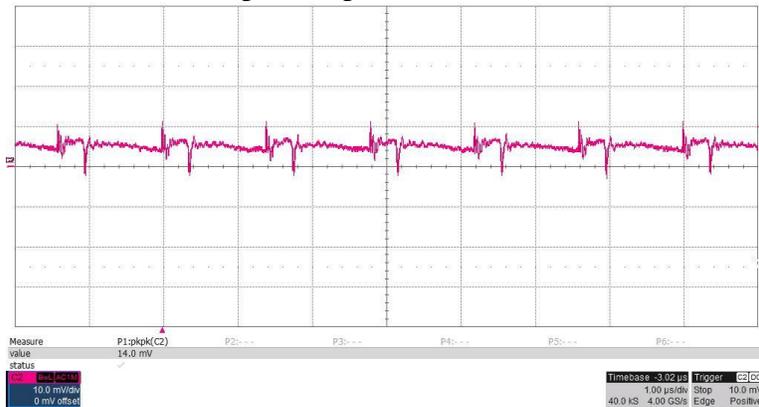


Ripple and Noise

Output Ripple at C9, 10mV/div, 1usec/div
Measured 15.0mVpeak to peak:

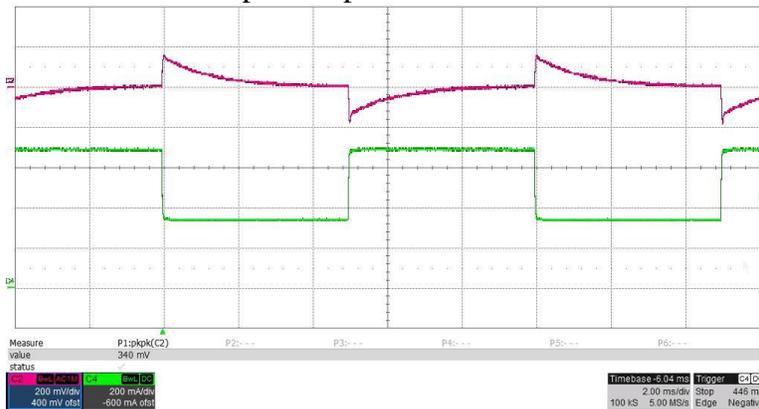


Input Ripple at C4, 10mV/div, 1usec/div
Measured 14.0mVpeak to peak:



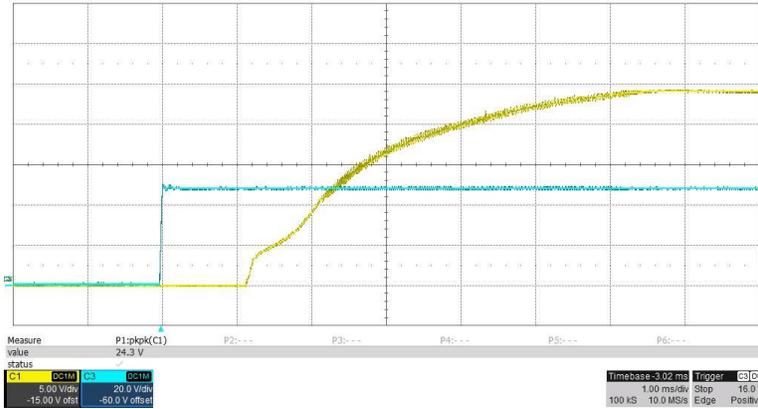
Dynamic Loading

350mA to 700mA load step; 100mA/usec, 200mV/div, 200mA/div, 2msec/div
Measured 340mV peak to peak:

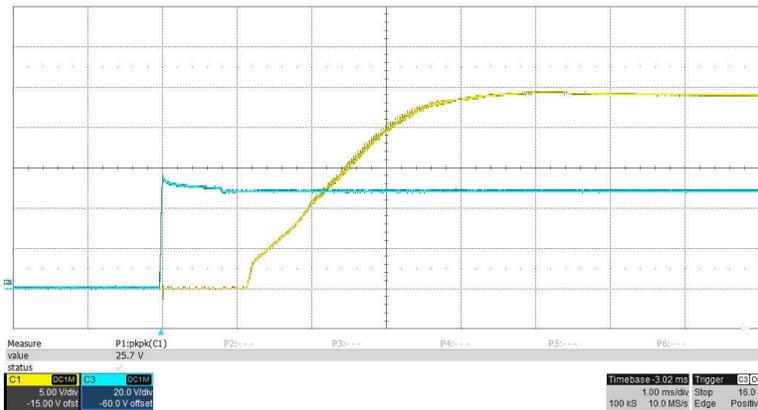


Turn On Response

700mA load, 1msec/div; CH1: Vout, 5V/div; CH2: Vin, 20V/div:

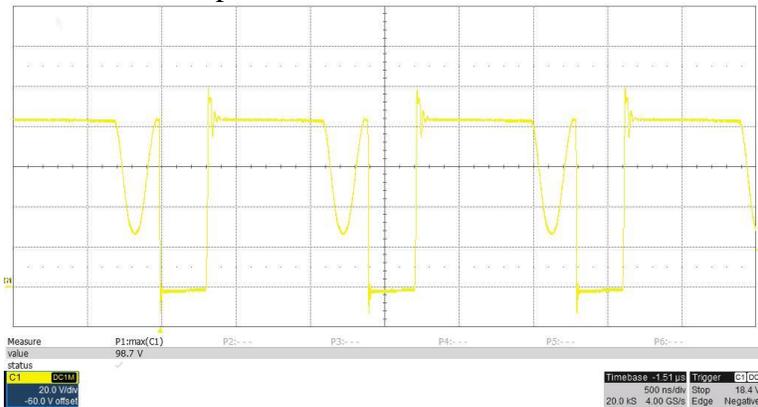


0A load, 1msec/div; CH1: Vout, 5V/div; CH2: Vin, 20V/div:

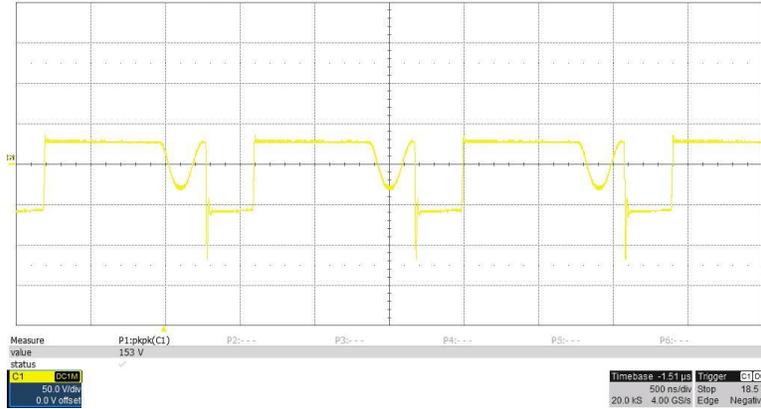


Waveforms

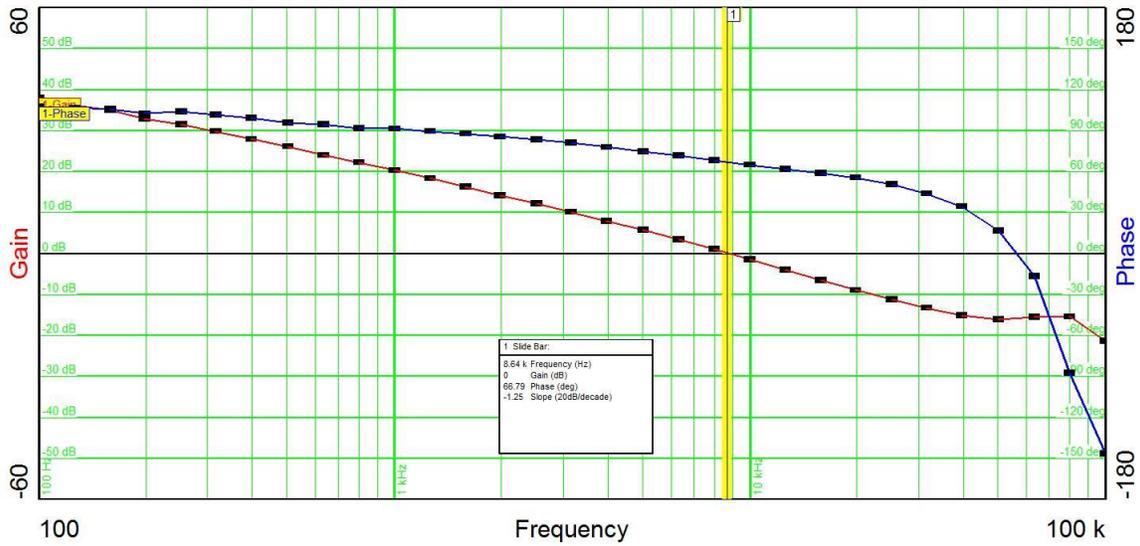
Q1 Drain to PGND, 57V input, 700mA load, 20V/div, 500nsec/div, 750MHz bandwidth
Measured 98.7Vpeak:



D1 Anode to GND, 57V input, 700mA load, 50V/div, 500nsec/div, 750MHz bandwidth
 Measured 153Vpeak:



Loop Stability

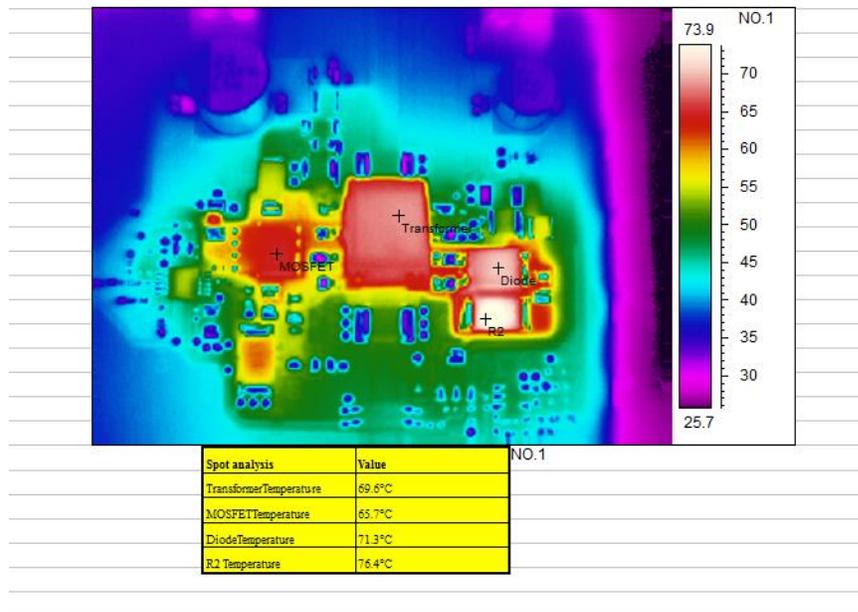


BW = 8.6KHz

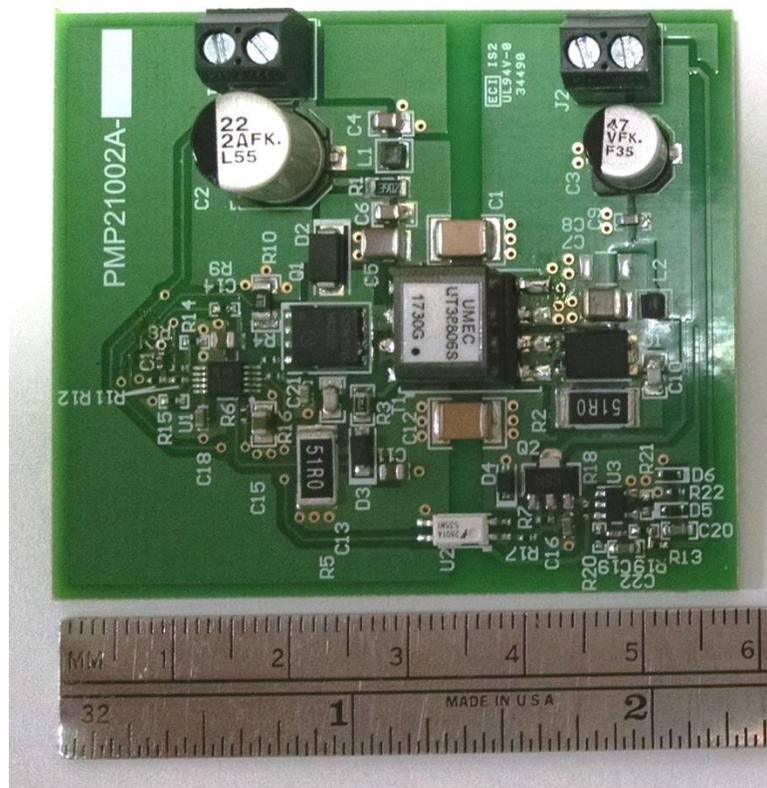
PM = 66 Degrees

GM = 15dB

Thermal Plot



Photo



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