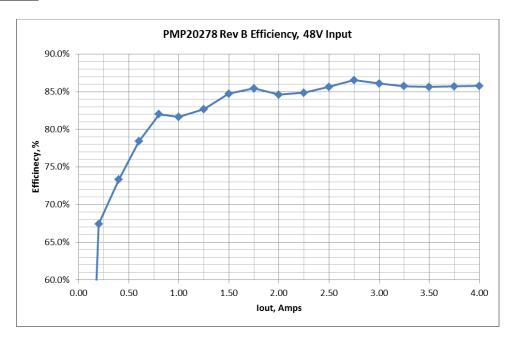
TEST REPORT 06-16-2016

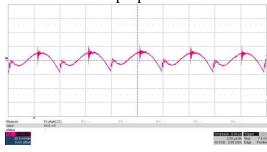
Efficiency



Ripple and Noise

Output Ripple (C11) 20mV/div, 2usec/div

Measured 40mV pk-pk:



Input Ripple (C11) 20mV/div, 2usec/div Measured 31.3mV pk-pk:

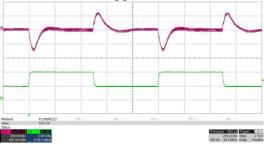


Dynamic Loading

Load Step

2A to 4A step load, 400mA/usec slew rate, 2A/div, 200mV/div, 200usec/div

Measured 553mVpp:

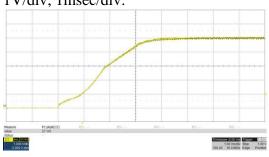


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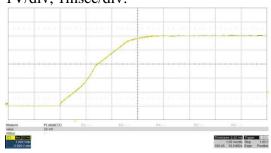
TEST REPORT 06-16-2016

Turn On Response

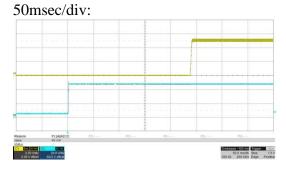
5V output, 4A load 1V/div, 1msec/div:



5V output, 0A load 1V/div, 1msec/div:



Turn on delay, 4A load Top: 5V output, 2V/div Bottom: Vin, 20V/div



Waveforms

VDS Q1, 57V Input, 4A Load 20V/div, 1usec/div

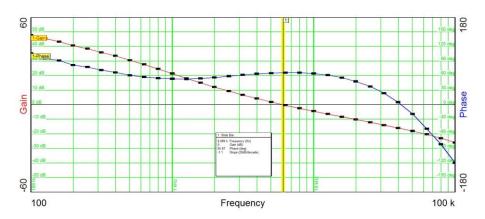


VAK D3, 57V Input, 4A Load 5V/div, 1usec/div Measured 20.3Vpp

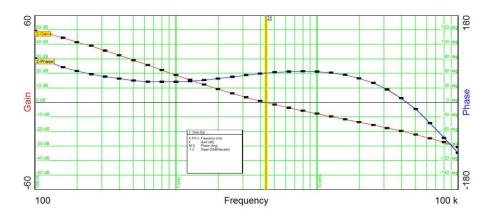


Stability

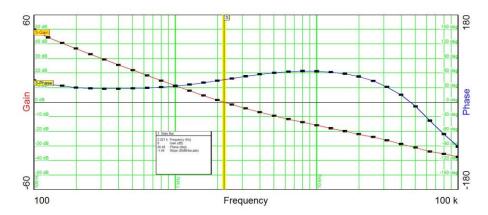
Loop response of the converter with a 48V input and 4A load BW=6Khz PM=65 degrees GM=16dB



Loop response of the converter with a 48V input and 2A load BW=4.3Khz PM=60 degrees GM=22dB



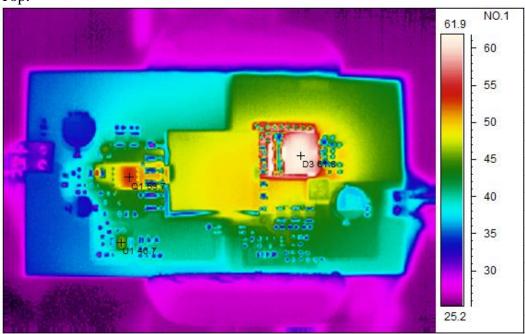
Loop response of the converter with a 48V input and 400mA load BW=2.2Khz PM=46 degrees GM=30dB



Thermal:

Thermal measurements taken with 48V input and 4A load, no air flow.

Top:



Bottom:

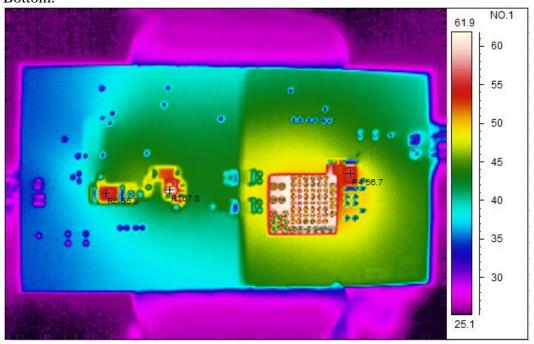
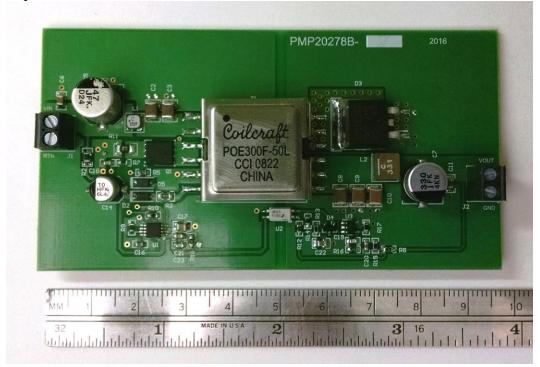
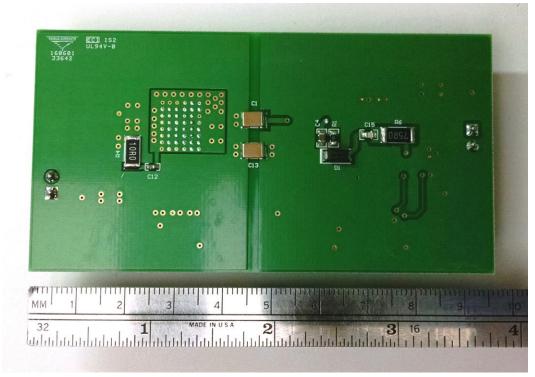


Photo:

Top:



Bottom:



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