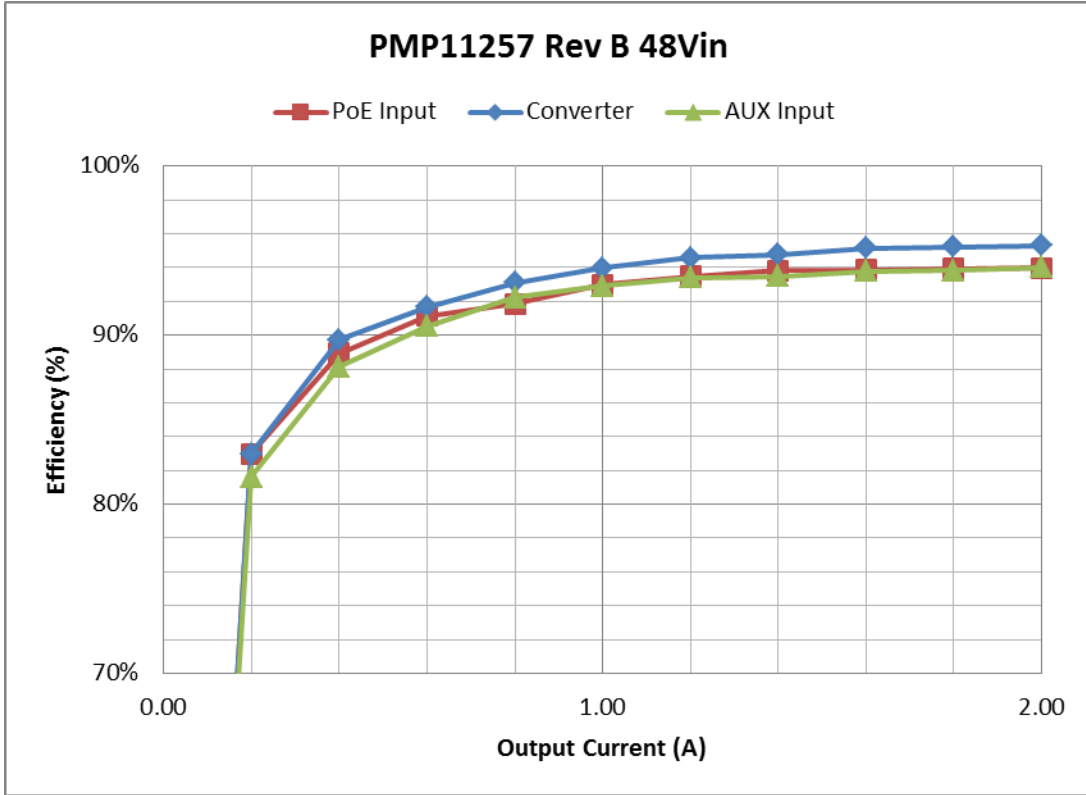


All measurements taken with a 48V input, 2A load unless otherwise noted.

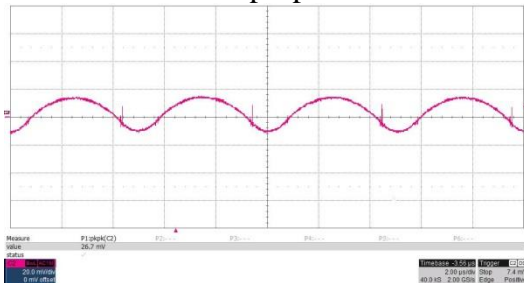
Efficiency



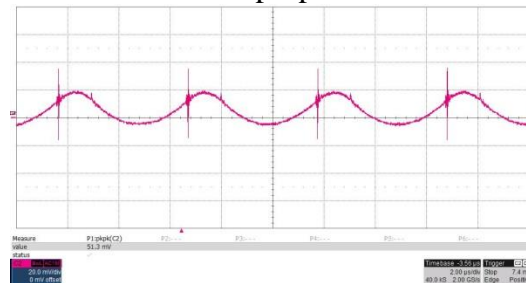
Ripple and Noise

Ripple measurements taken with a 2A load and 20MHz BWL.

Output Ripple (J4)
 20mV/div, 2usec/div
 Measured 26.7mV pk-pk:



Input Ripple (C11)
 20mV/div, 2usec/div
 Measured 51.3mV pk-pk:

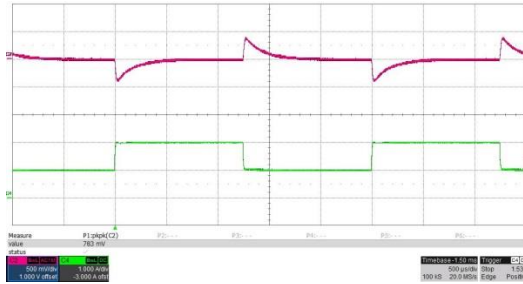


Dynamic Loading

Load Step

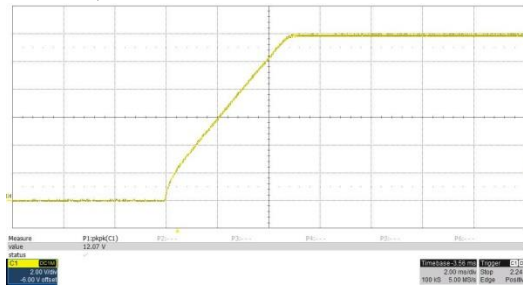
1A to 2A step load, 250mA/usec slew rate
200mV/div, 500usec/div

Measured 783mVpp:

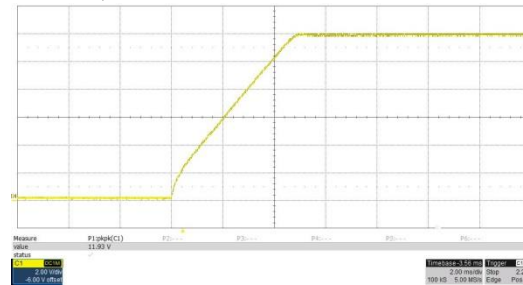


Turn On Response

2A Load, 2msec/div
2V/div, 2msec/div:

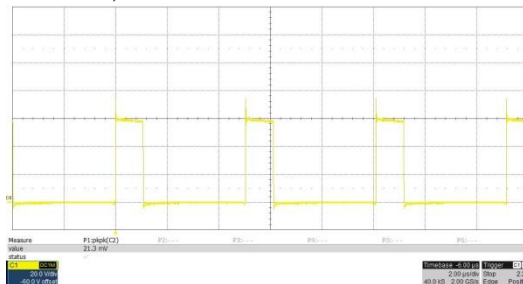


0A Load, 2msec/div
2V/div, 2msec/div:



Waveforms

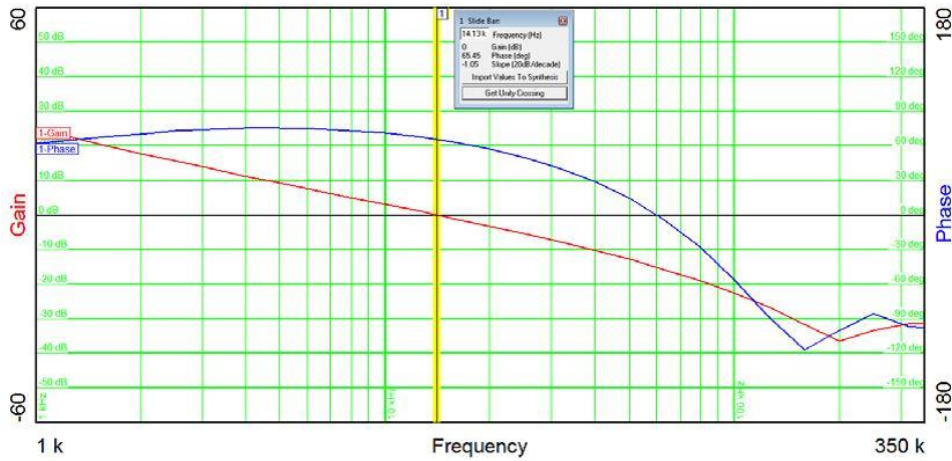
Switch node, 57V Input, 2A Load
20V/div, 2usec/div



Stability

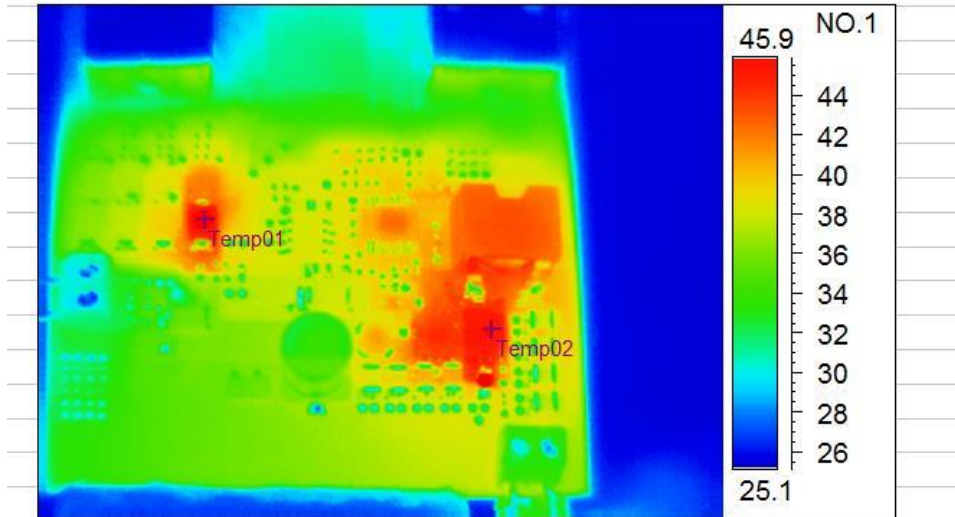
Loop response of the converter with a 48V input and 2A load.

BW=14Khz PM=65 degrees GM=15dB



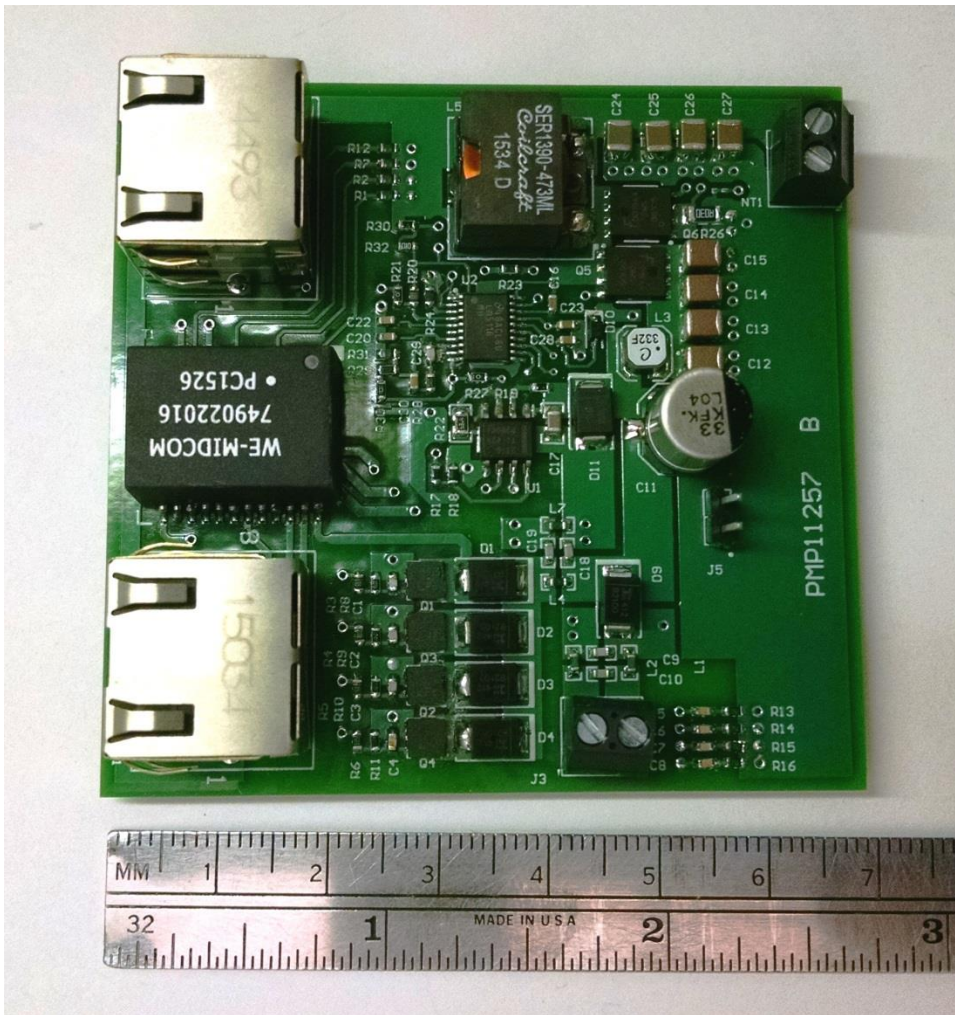
Thermal:

Thermal measurement taken with 48V input and 2A load, no air flow.



| Spot analysis | Value |
|--------------------|--------|
| Temp01 Temperature | 46.6°C |
| Temp02 Temperature | 46.0°C |

Photo:



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