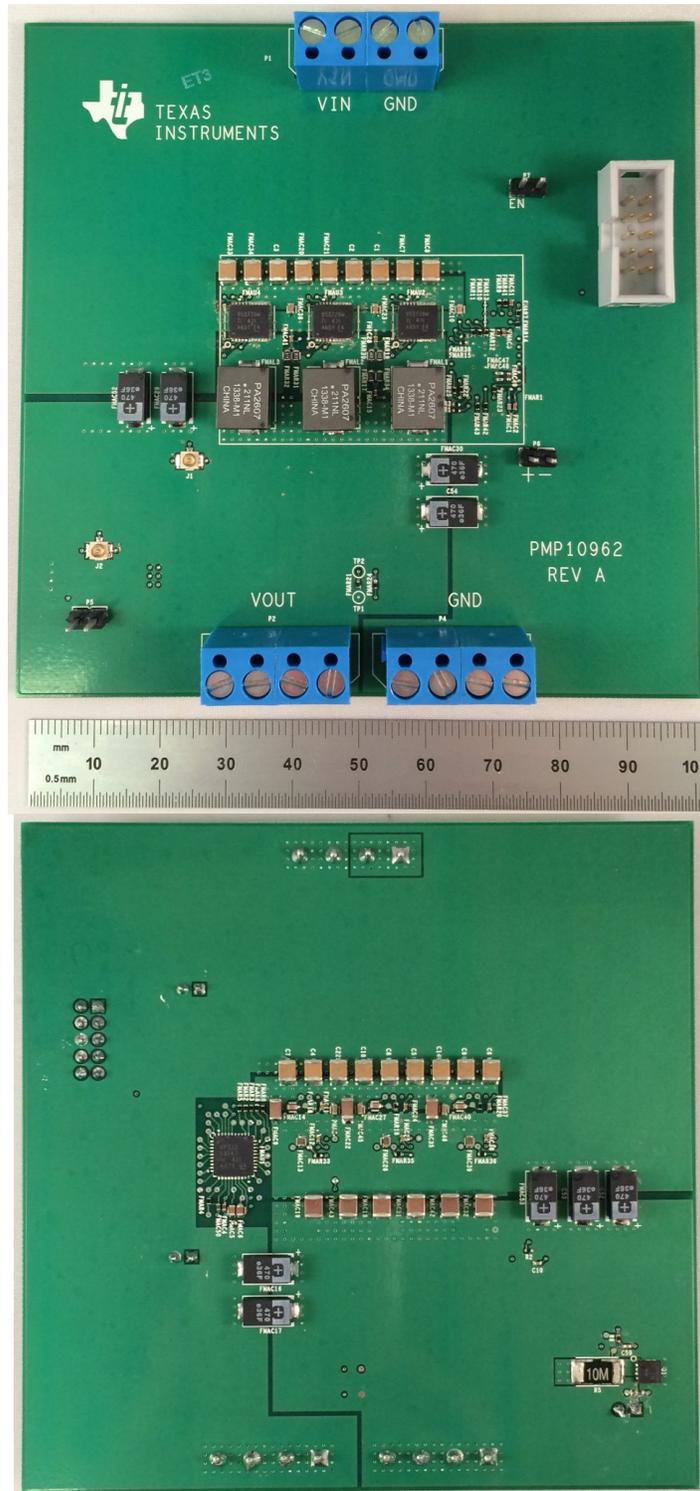
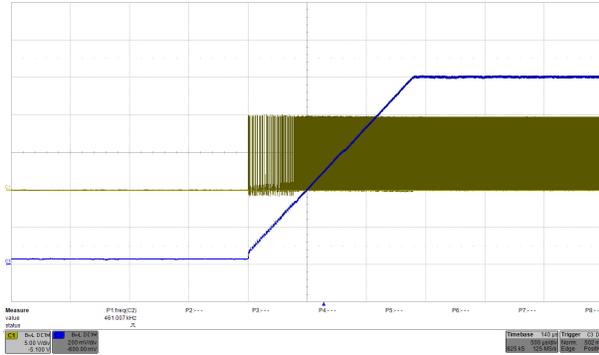


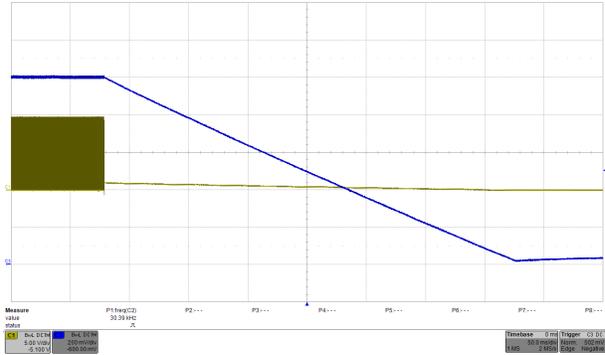
### Photo of the prototype



## 1 Startup and shutdown

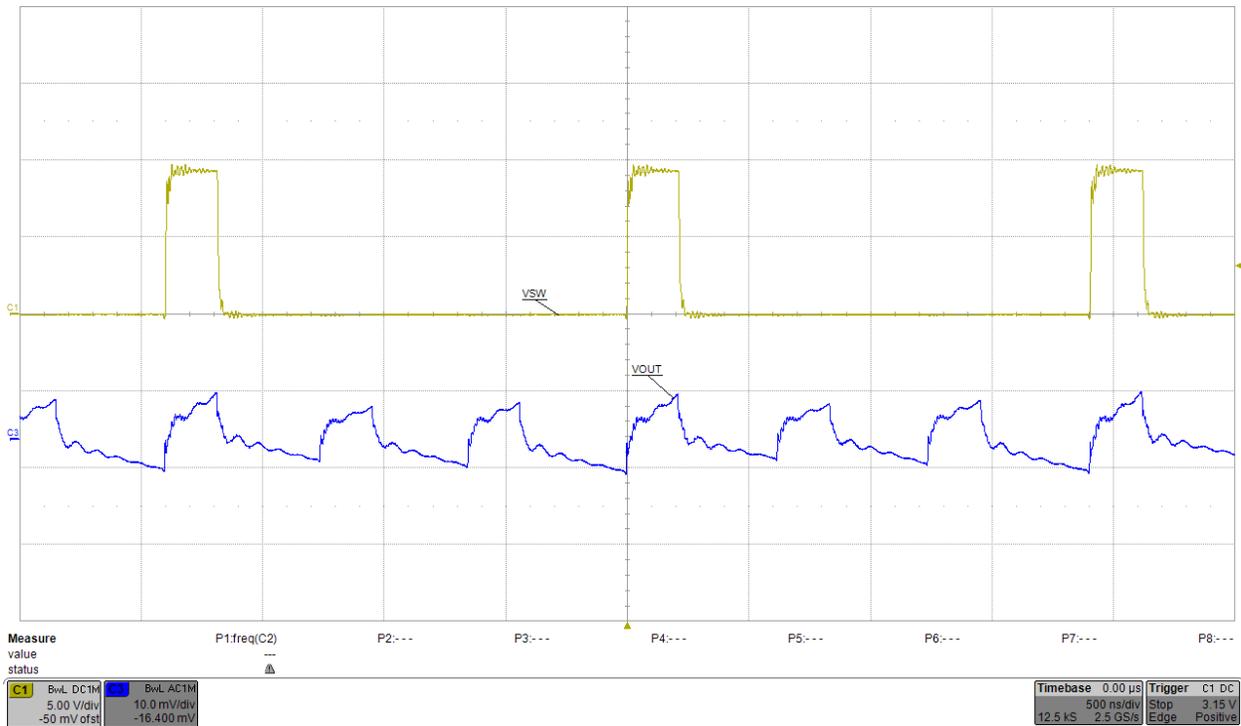


Turn-on, 10Vin, 1.0Vout  
(blue trace is Vout and yellow trace is switching waveform)



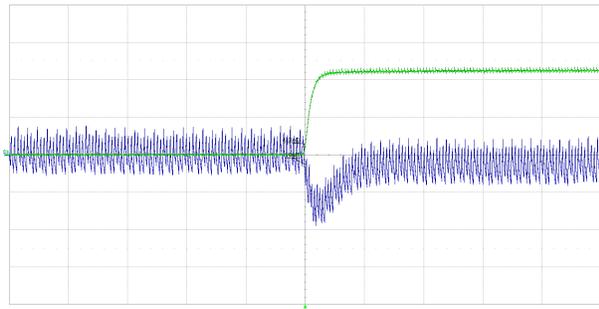
Turn-off, 10Vin, 1.0Vout  
(blue trace is Vout and yellow trace is switching waveform)

## 2 Ripple

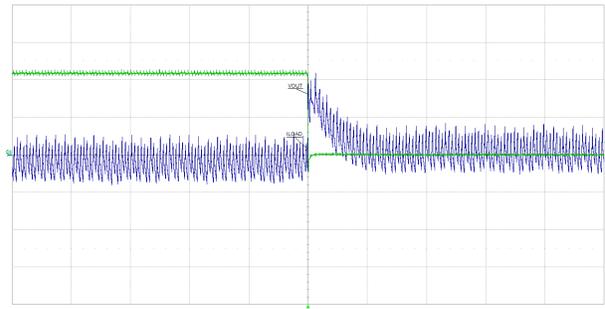


10Vin, 1.0Vout, 90A load, SW node and Vout

### 3 Transient

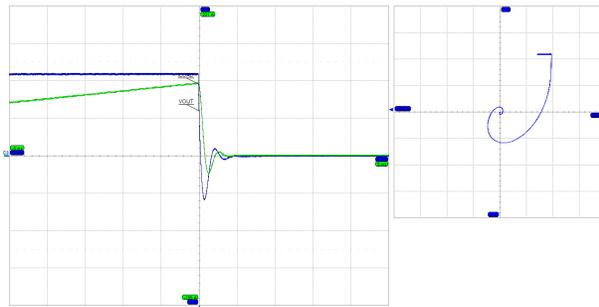


10Vin, 1.0Vout, 67.5A to 90A Load  
 (blue trace is Vout, 10mV/div and green trace is step current 10A/div)

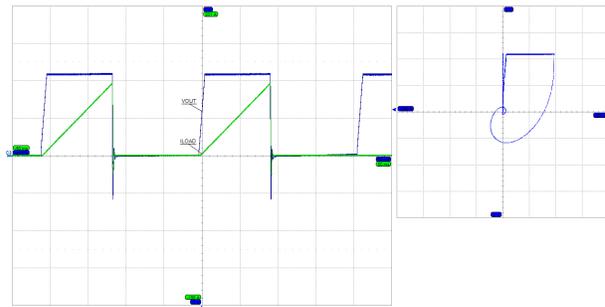


10Vin, 1.0Vout, 90A to 67.5 Load  
 (blue trace is Vout, 10mV/div and green trace is step current 10A/div)

### 4 Short-circuit protection

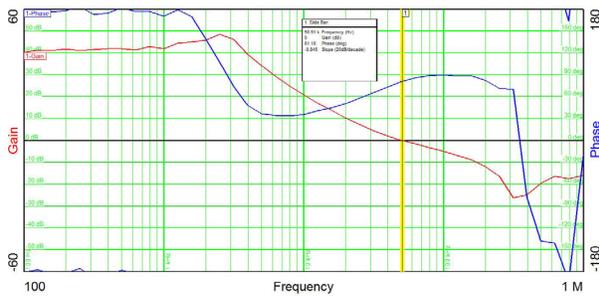


10Vin, 1.085Vout, Short circuit applied

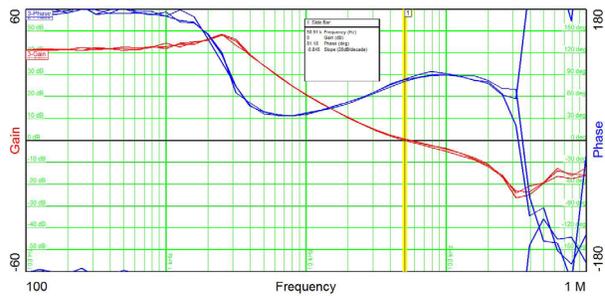


10Vin, 1.085Vout, Short circuit released

### 5 Bode Plot

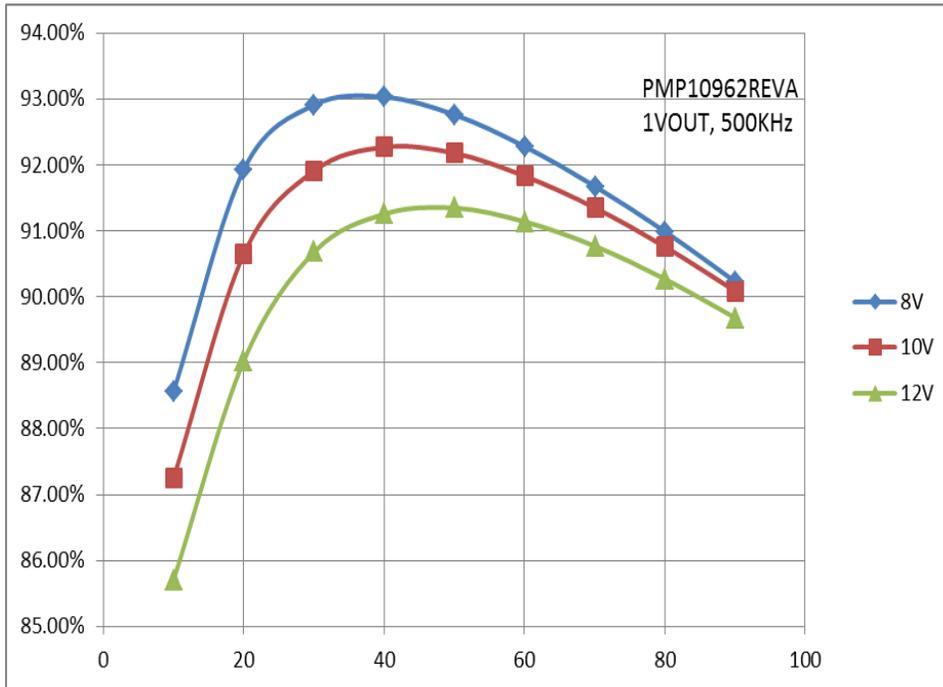


10Vin, 1.0Vout, No Load, BW=50.9kHz, PM=81deg, GM=25dB

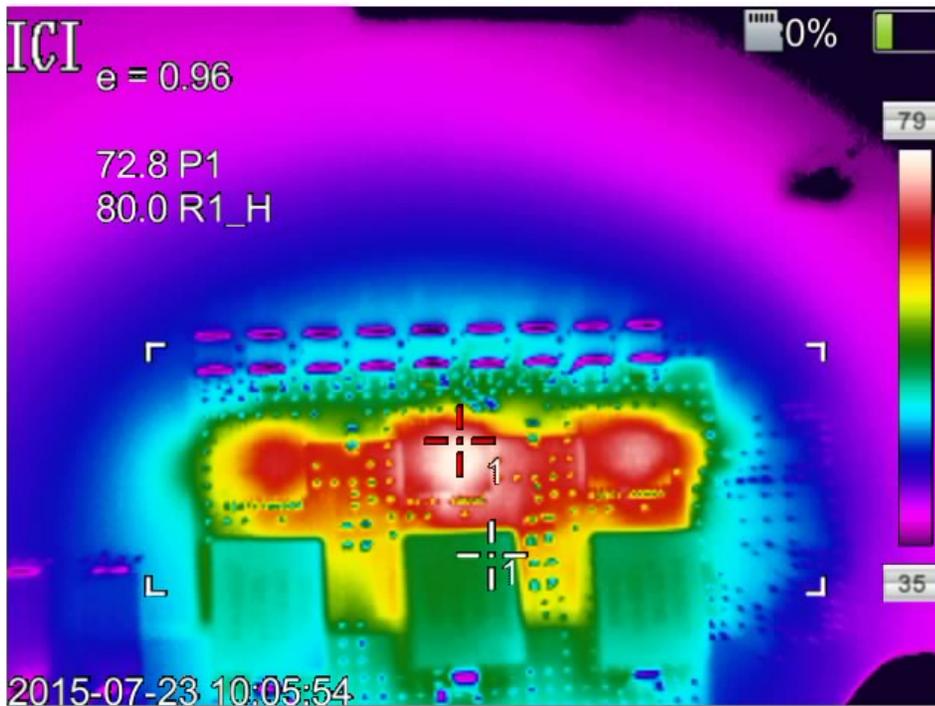


10Vin, 1.0Vout, 90A Load, BW=50.9kHz, PM=81deg, GM=25dB

## 6 Efficiency

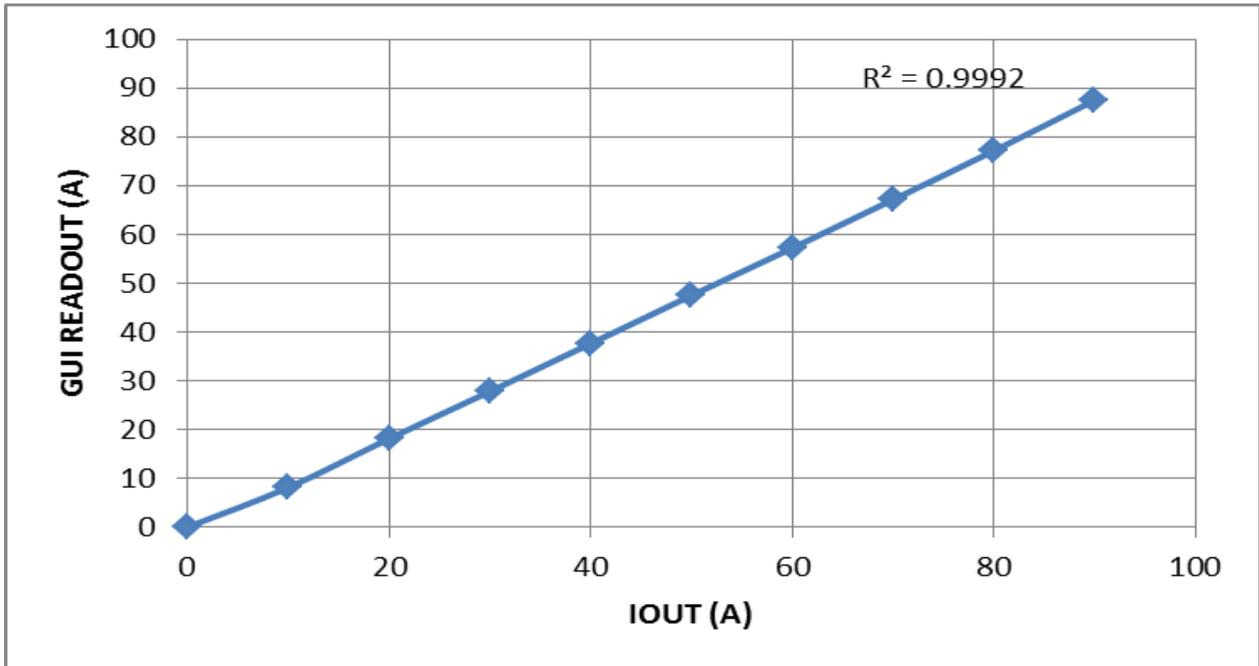


## 7 Thermal



FET temperature: 80°C; Inductor temperature: 72.8°C.  
(Test conditions: 12Vin, 1.085V/90A, 300kHz, 200LFM, Room Temperature.)

### 8 Current Report



GUI current report vs. load current.

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