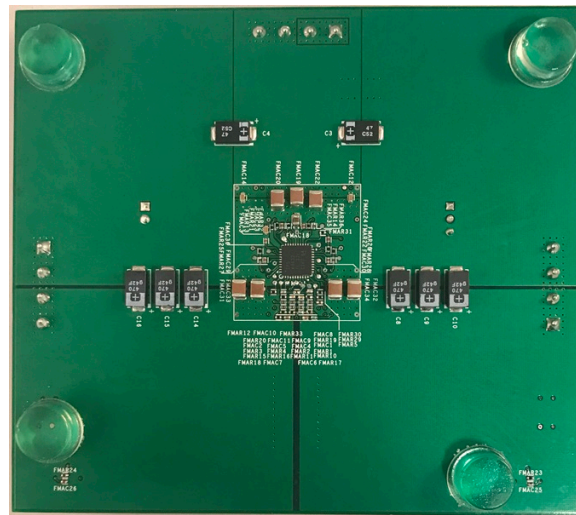
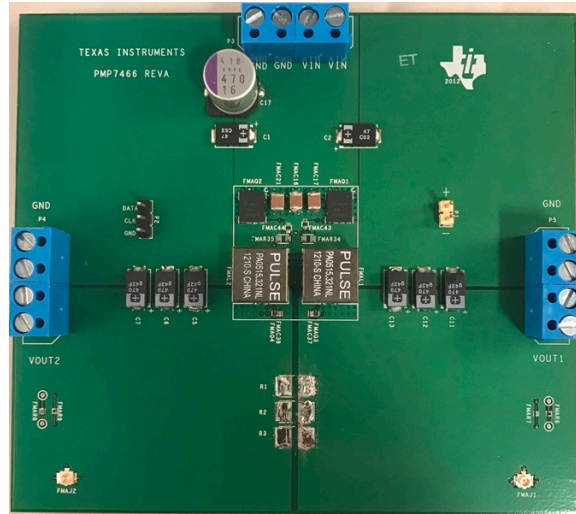
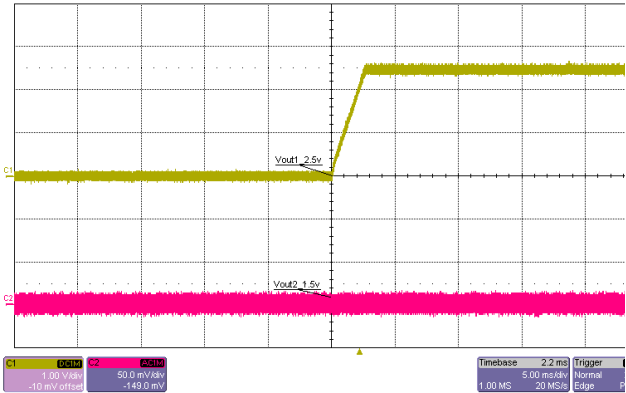


Photo of the prototype

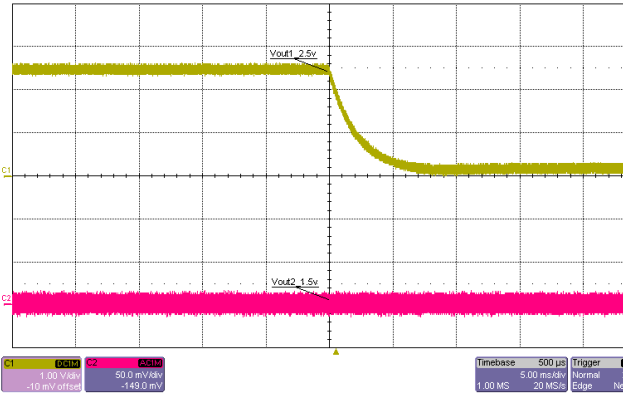


1 Startup and shutdown

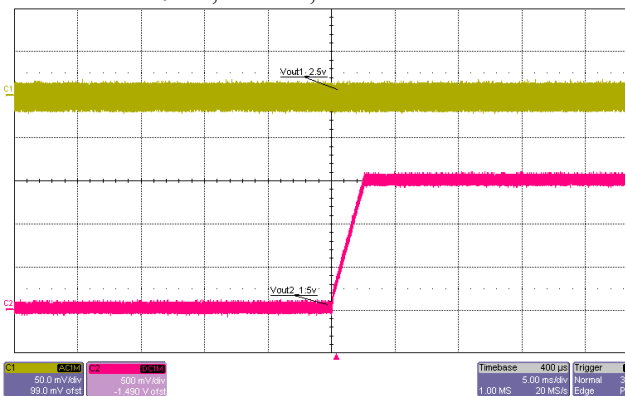
CH1 is VOUT1=2.5V, CH2 is VOUT2=1.5V



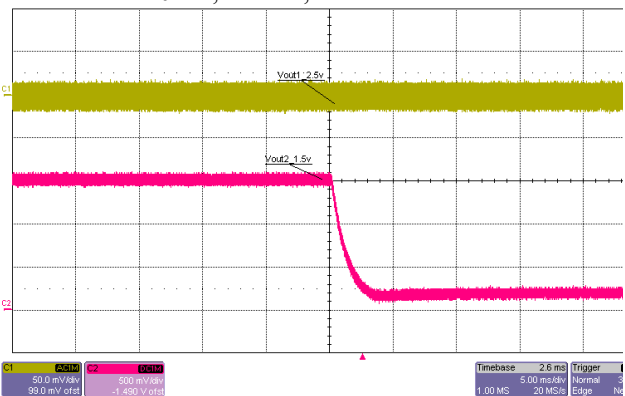
10Vin, Ch 2 on, Ch1 off to on



10Vin, Ch2 on, Ch1 on to off



10Vin, Ch1 on, Ch2 off to on



10Vin, Ch1 on, Ch2 on to off

2 Output Ripple

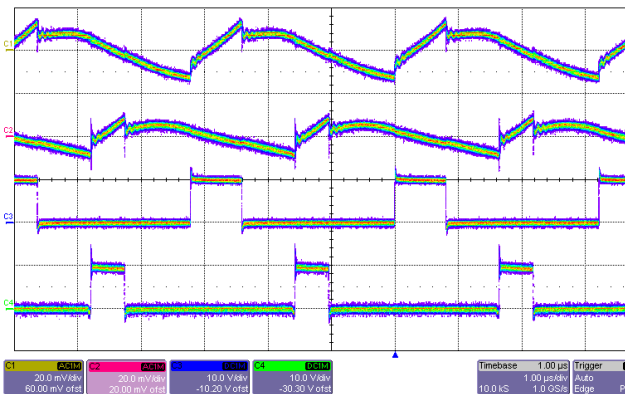
CH1 is VOUT1=2.5V, CH2 is VOUT2=1.5V

Trace C1: VOUT1

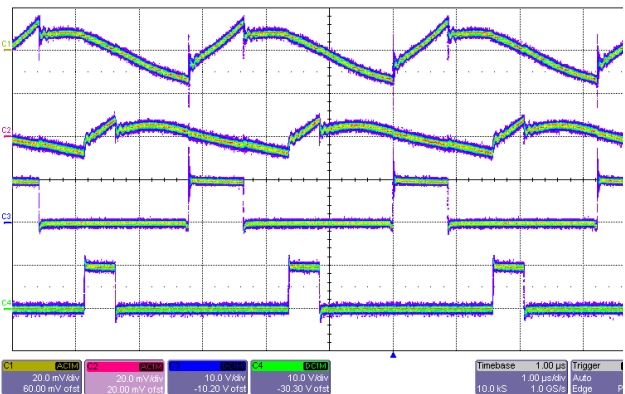
Trace C2: VOUT2

Trace C3: VSW1

Trace C4: VSW2

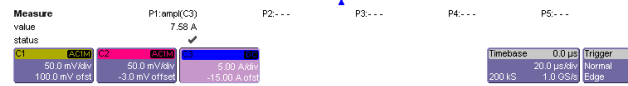
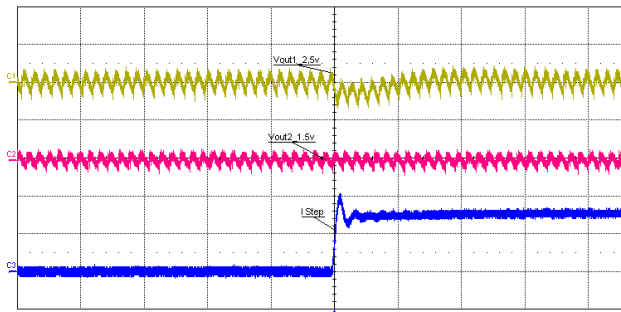


10Vin, Ch1 VOUT1=2.5V/3A, Ch2 VOUT2=1.5V/30A (2x 100uF, 6.3V, 1210+6x470uF, 6.3V, 10mohm, 7343)

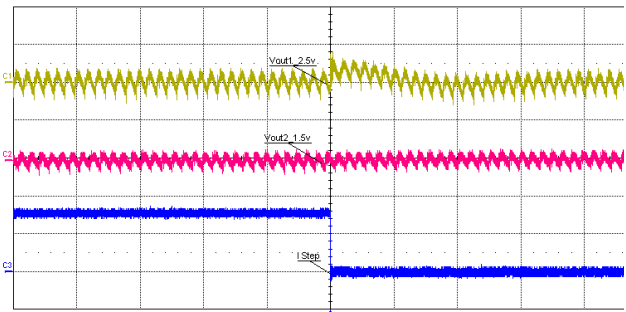


10Vin, Ch1 VOUT1=2.5V/30A, Ch2 VOUT2=1.5V/3A (2x 100uF, 6.3V, 1210+6x470uF, 4V, 10mohm, 7343)

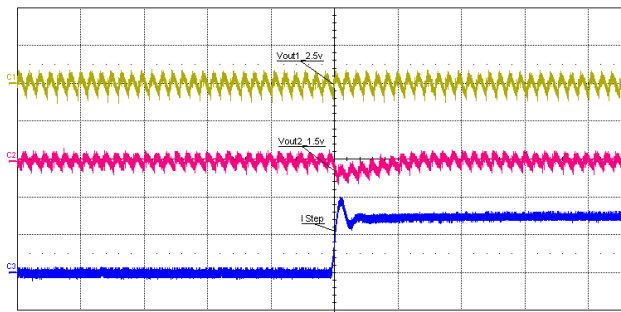
3 Transient



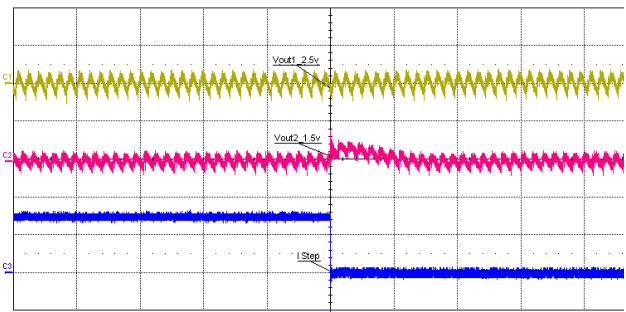
10Vin, Ch1 22.5A to 30A Load Step, Ch2 15A static load



10Vin, Ch1 30A to 22.5A Load Step, Ch2 15A static load

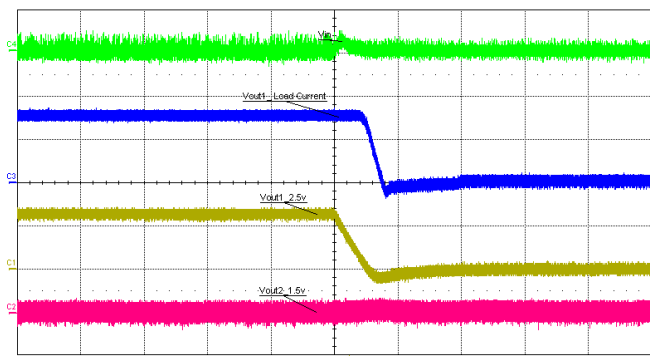


10Vin, Ch2 22.5A to 30A Load Step, Ch1 15A static load

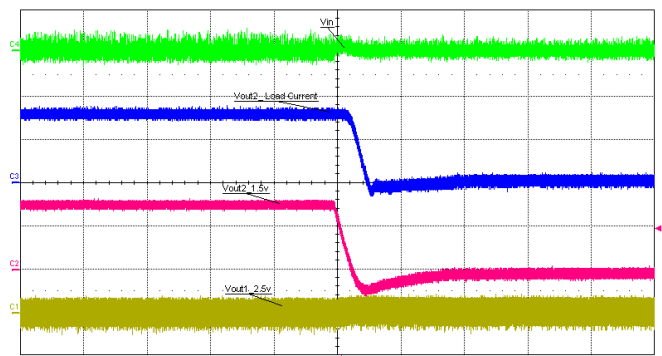


10Vin, Ch2 30A to 22.5A Load Step, Ch1 15A static load

4 Over-Current protection

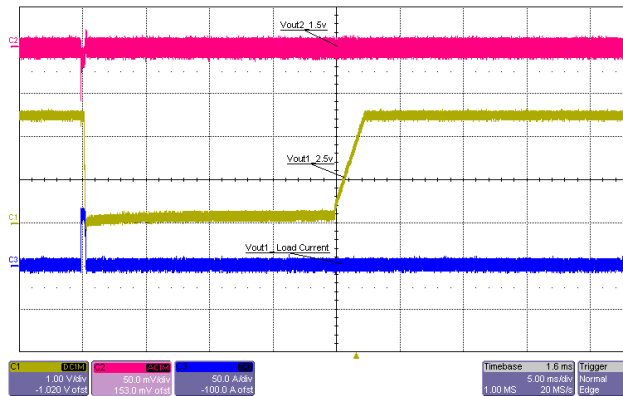


10Vin, Ch1 load regulation and over-current protection, Ch2 15A load

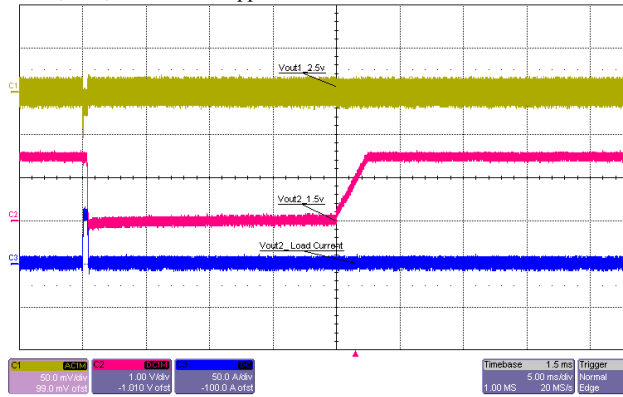


10Vin, Ch2 load regulation and over-current protection, Ch1 15A load

5 Short-Circuit Protection

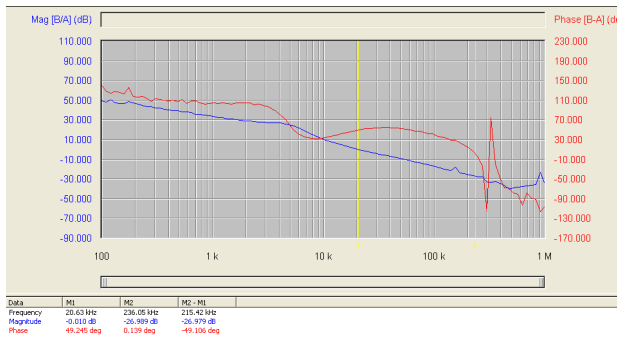


10Vin, Ch1, Short circuit applied and released

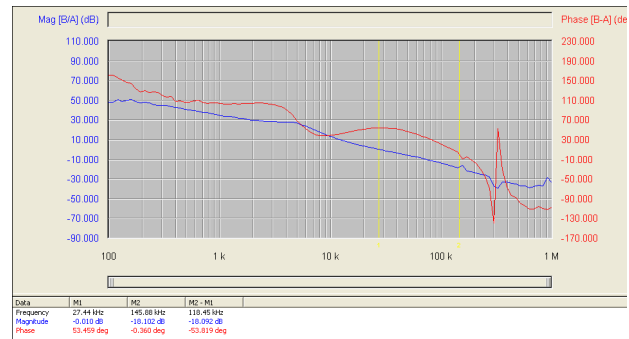


0Vin, Ch2, Short circuit applied and released

6 Bode Plot

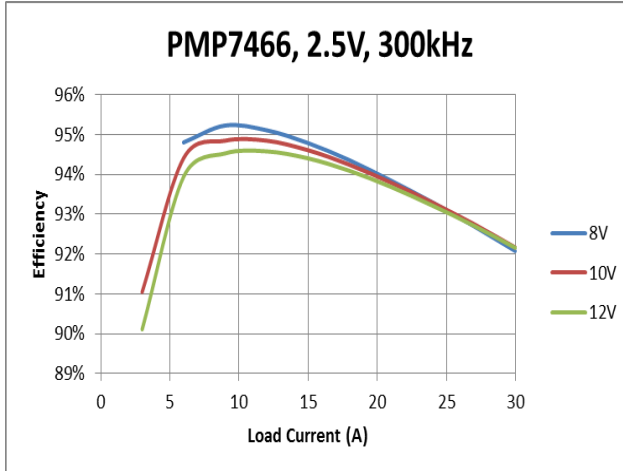


10Vin, 2.5Vout, 30A Load (Fc=20.6kHz, PM=49.2, GM=27.0dB)

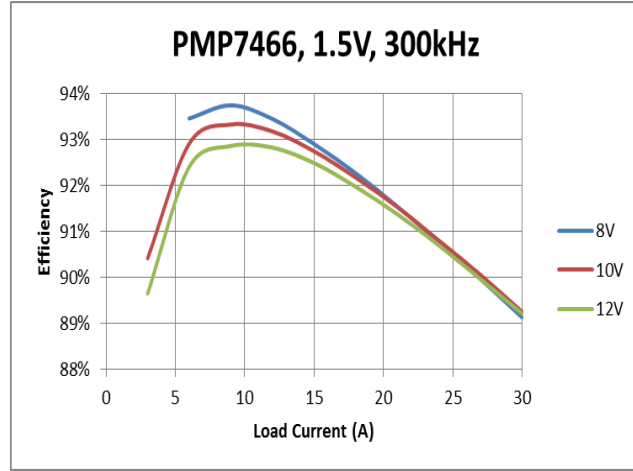


10Vin, 1.5Vout, 30A Load (Fc=27.4kHz, PM=53.5, GM=18.1dB)

7 Efficiency



2.5V efficiency @300kHz



1.5V efficiency @300kHz

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