

**Test Data
For PMP7921
3/1/2013**

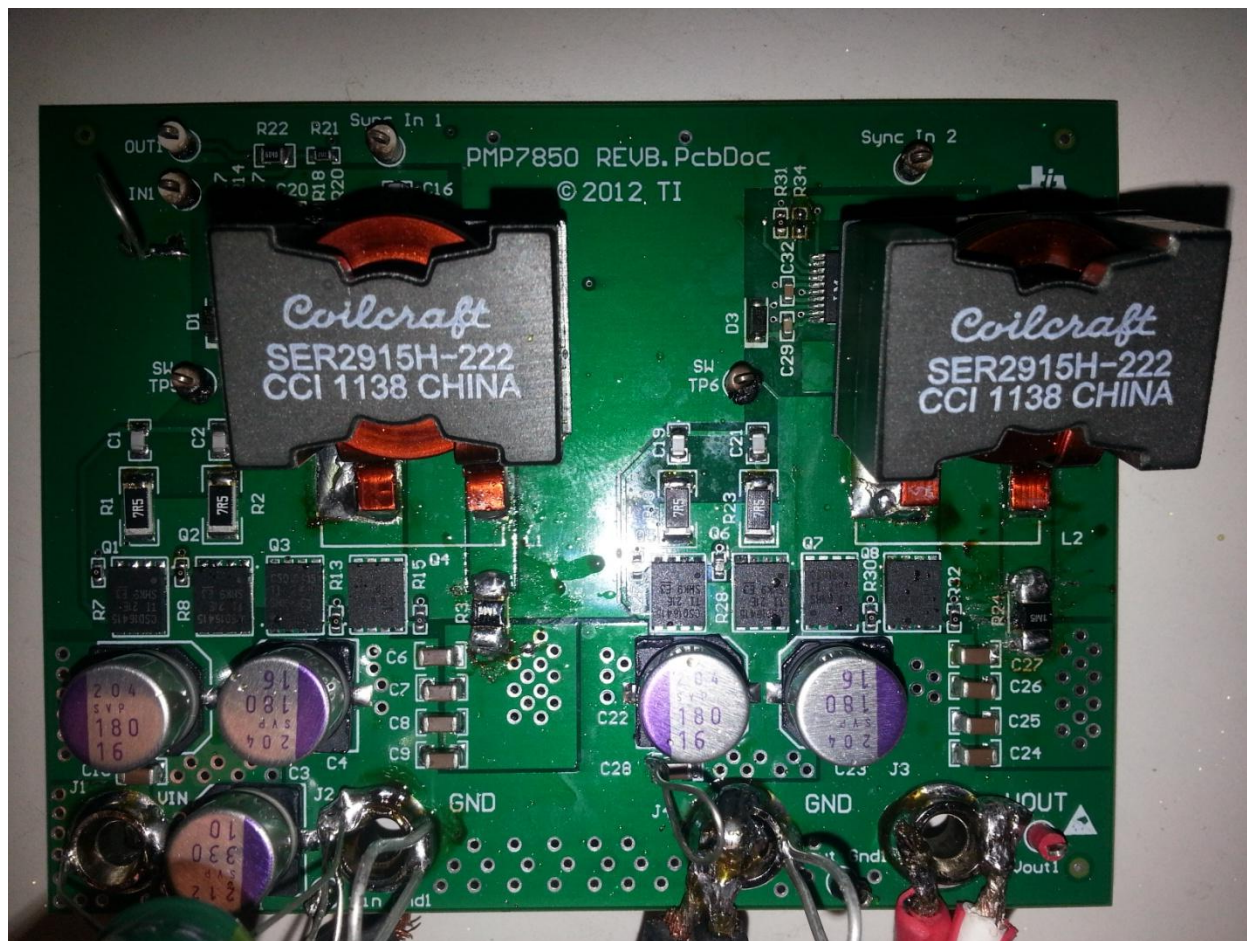


Test SPECIFICATIONS

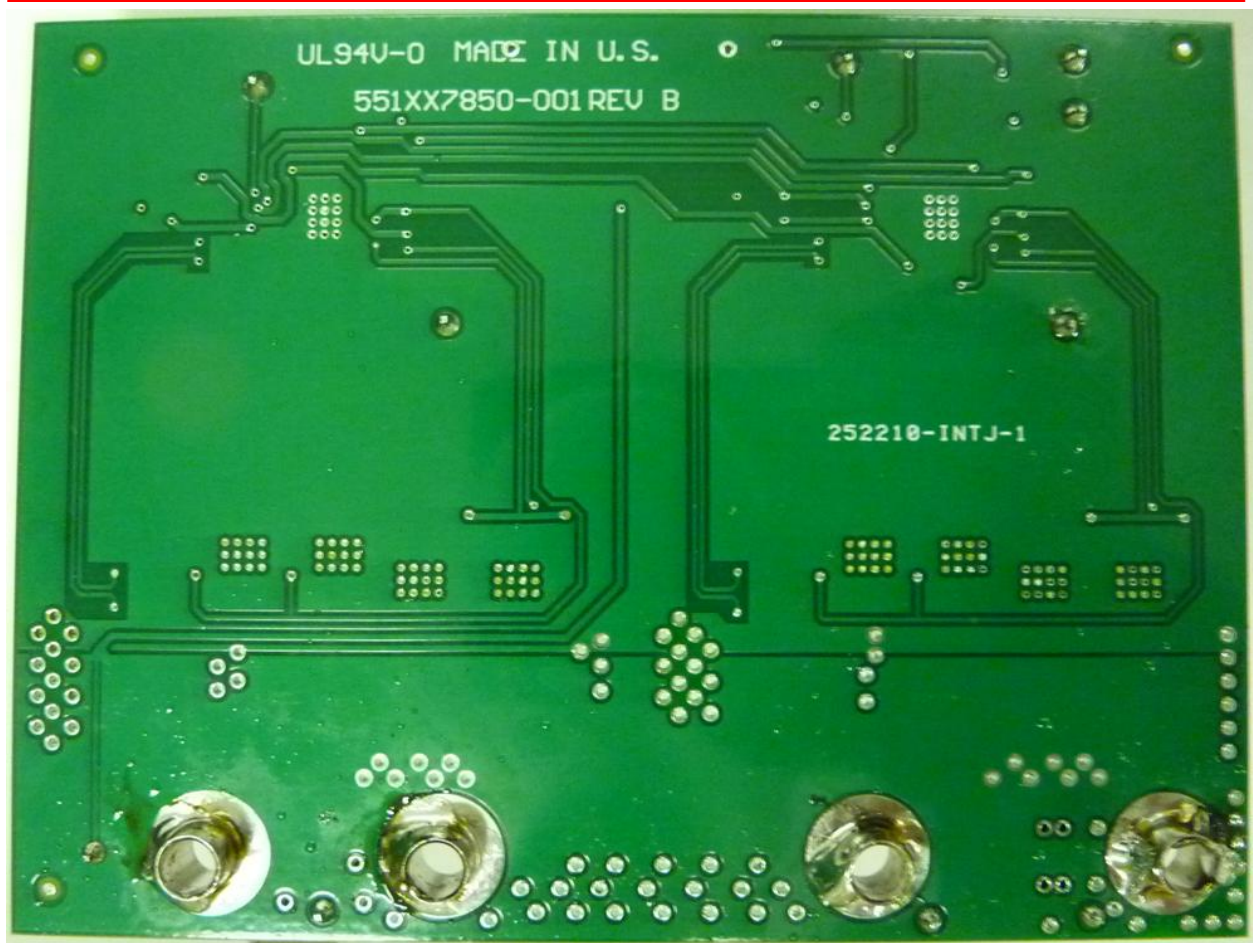
Vin	7V - 8V
Vout	12V
Iout	84A Peak Pulse

FABRICATION

Board Dimensions: 4" x 3"

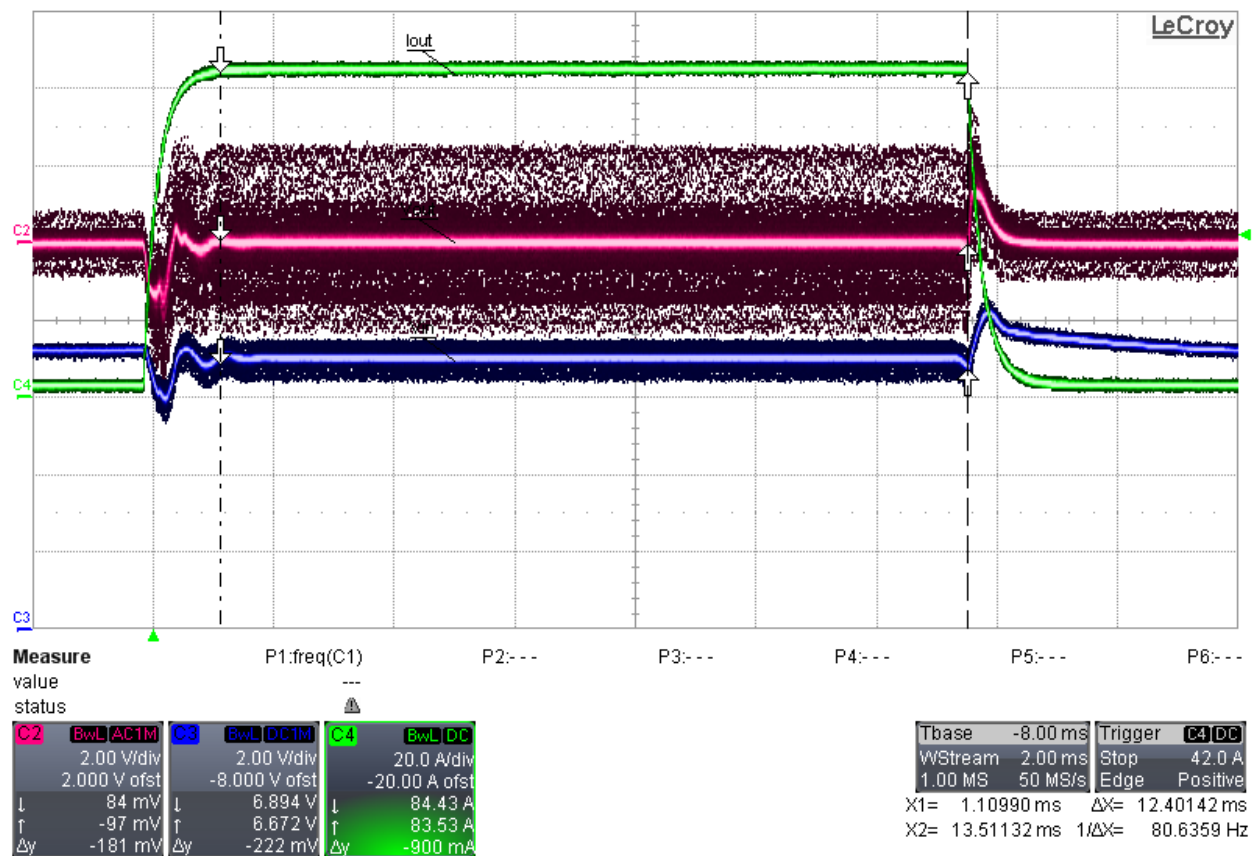


Top Side

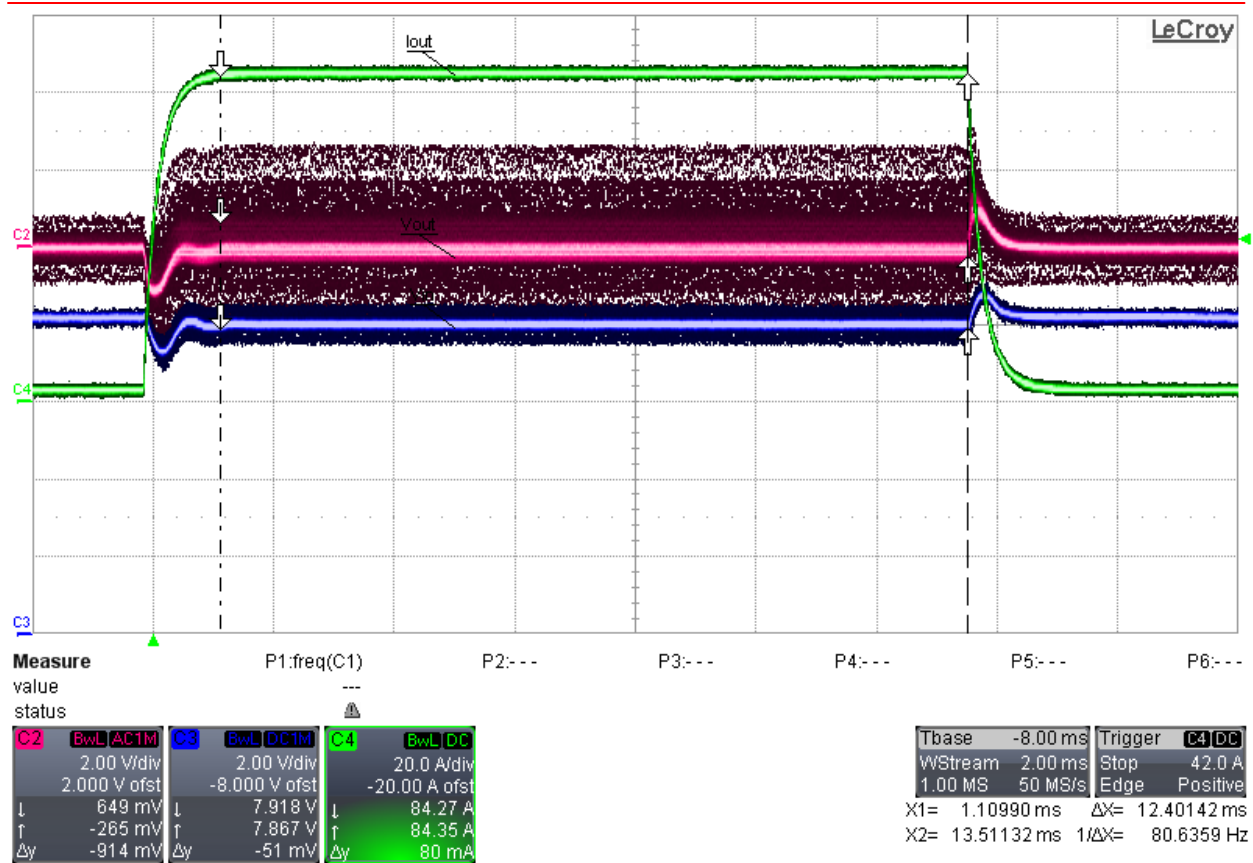


Bottom Side

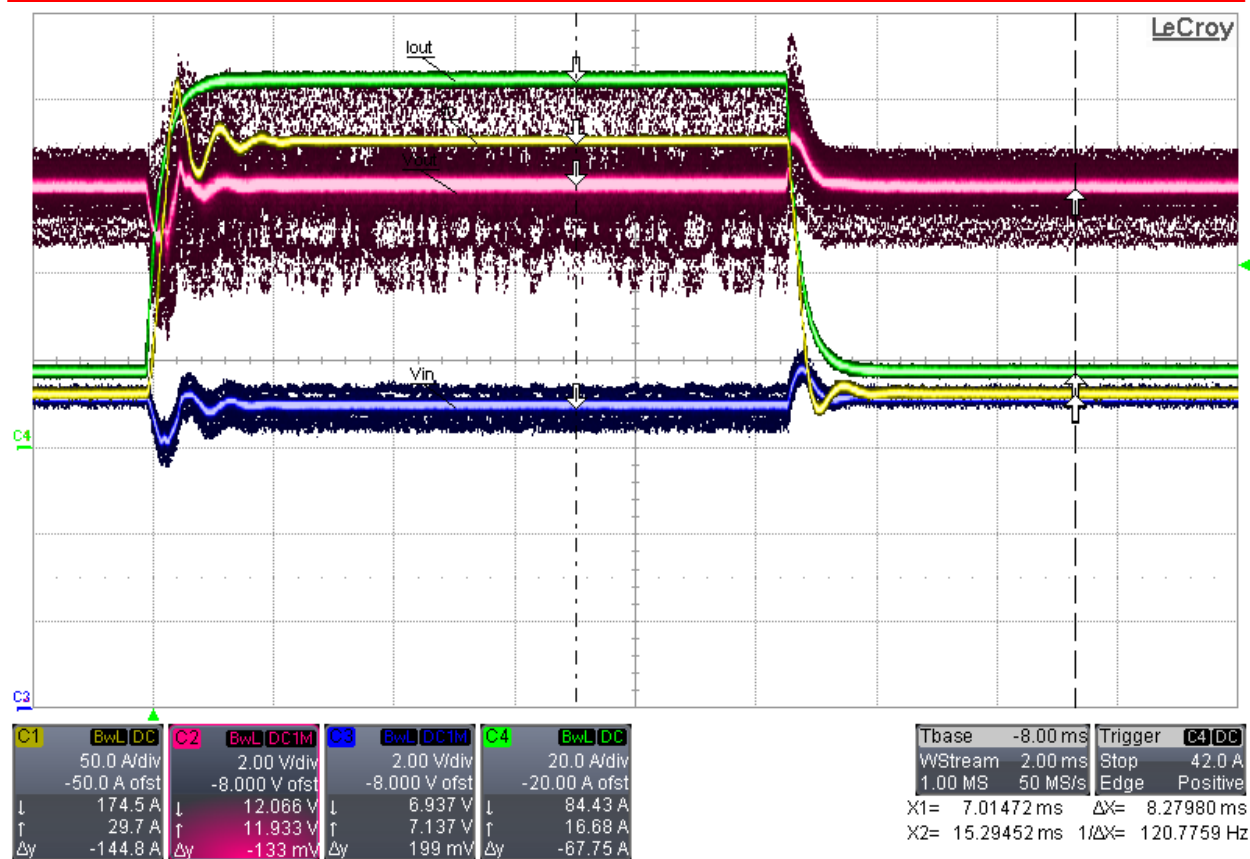
Waveforms



Transient at 7V_{in}, 0A-to-84A load step at $\approx 0.5A/\mu\text{sec}$

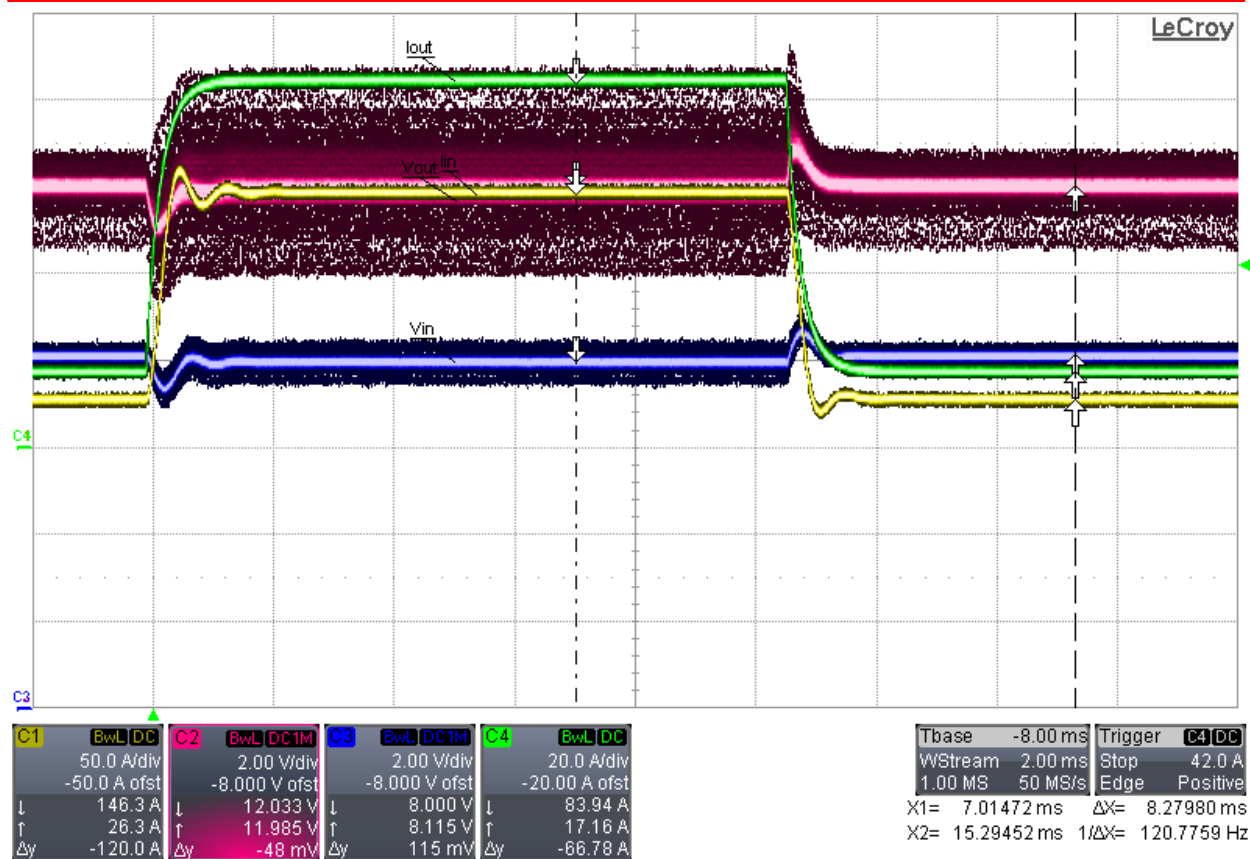


Transient at 8Vin, 0A-to-84A load step at $\approx 0.5\text{A}/\mu\text{sec}$



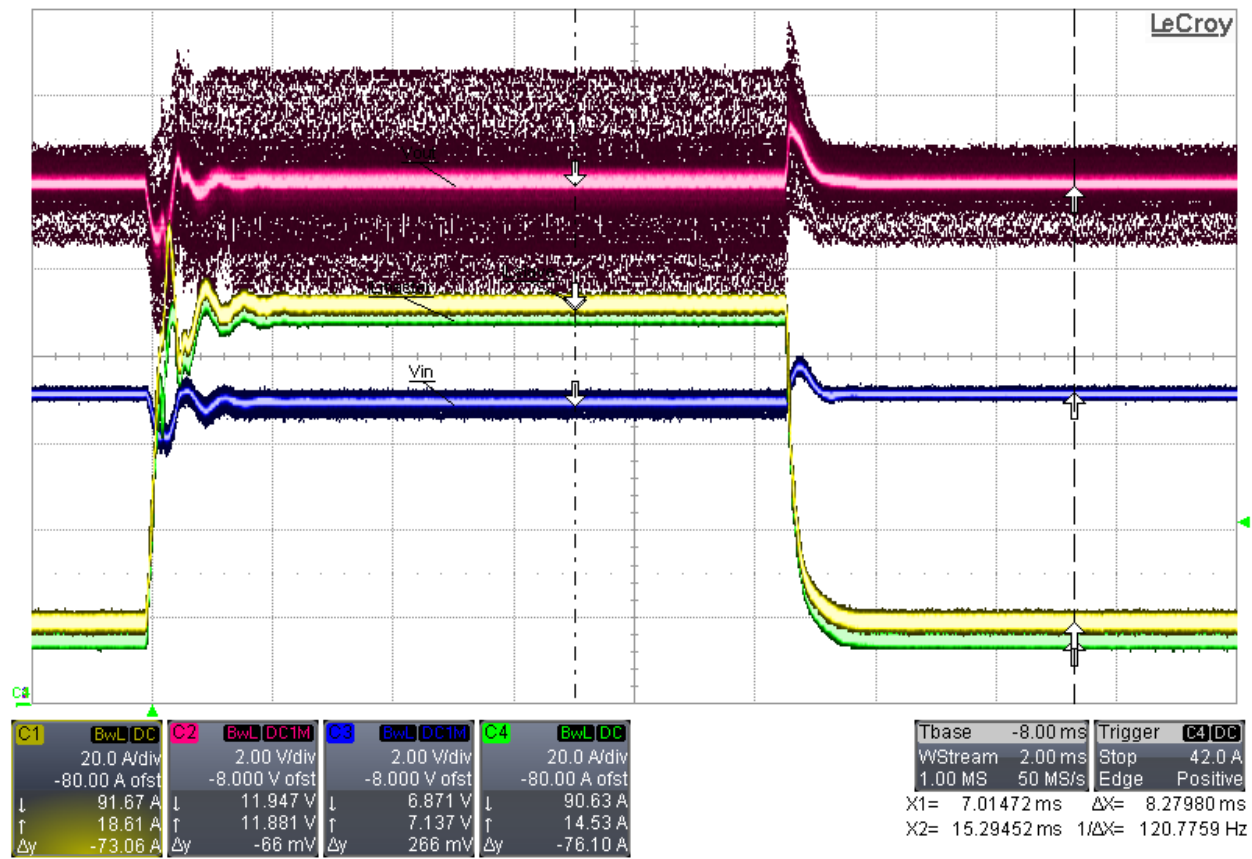
Efficiency at 7V_{in}

Efficiency at 7V _{in}	V _{in} (V)	I _{in} (A)	V _{out} (V)	I _{out} (A)	P _{in} (W)	P _{out} (W)	Efficiency (%)
@ 84A	6.937	174.5	12.066	84.43	1210.5065	1018.73238	84.16
@ 17A	7.137	29.7	11.933	16.68	211.9689	199.04244	93.90



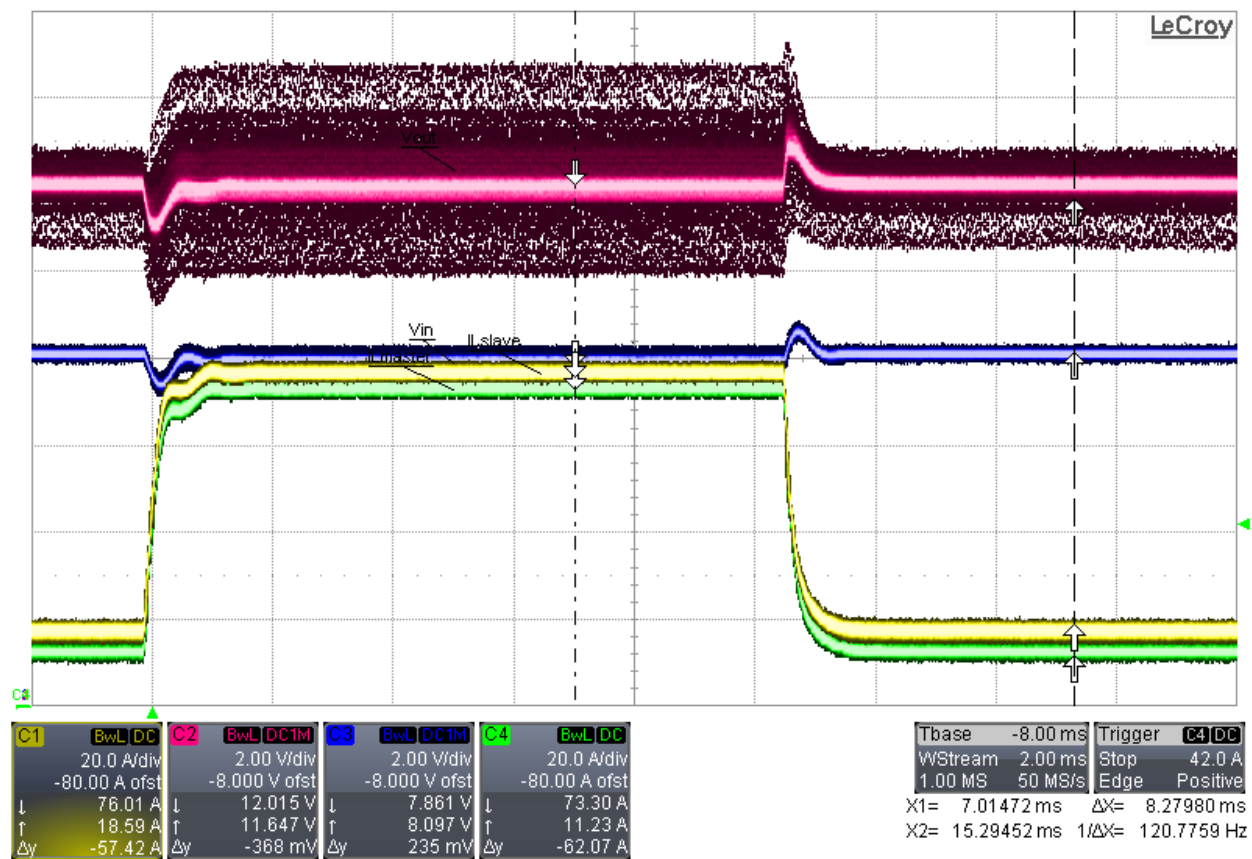
Efficiency at 8V_{in}

Efficiency at 8V_{in}	V_{in} (V)	I_{in} (A)	V_{out} (V)	I_{out} (A)	P_{in} (W)	P_{out} (W)	Efficiency (%)
@ 84A	8.000	146.3	12.033	83.94	1170.4	1010.05002	86.3
@ 17A	8.115	26.3	11.985	17.16	213.4245	205.6626	96.36



Current Sharing at 7Vin

<u>7Vin Current Sharing</u>	Current per Phase @ 84A	Current per Phase @ 17A
Master Current	90.6A	14.5A
Slave Current	91.7A	18.6A



Current Sharing at 8V_{in}

8V _{in} Current Sharing	Current per Phase @ 84A	Current per Phase @ 17A
Master Current	73.3A	11.2A
Slave Current	76A	18.6A

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