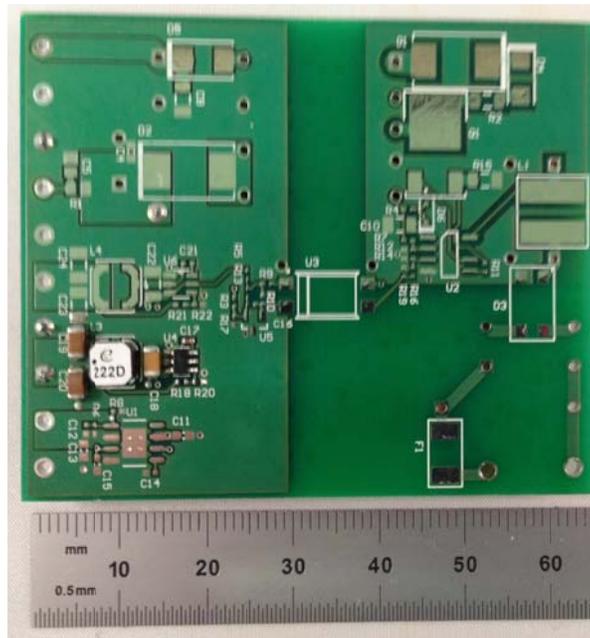
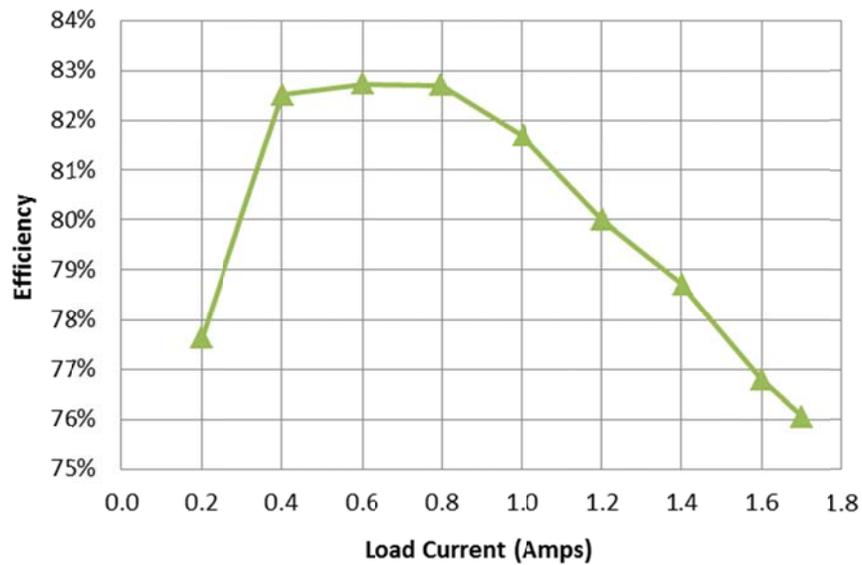


1 Photos

The photograph below shows the PMP9726 Rev A prototype assembly. This circuit was built on a PMP9661 Rev A PCB.



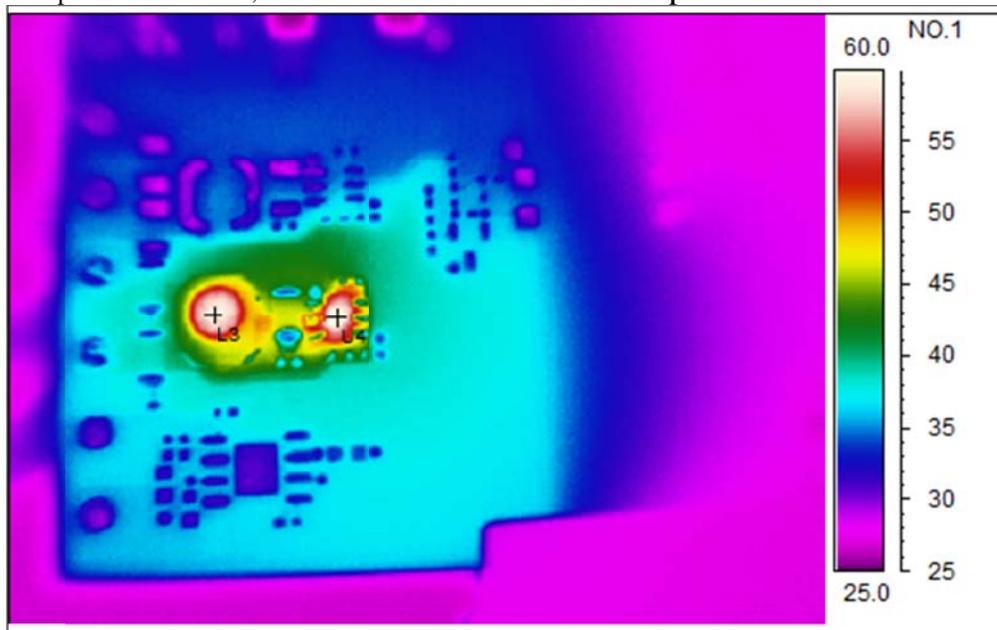
2 Efficiency



Iout	Vout	Vin	Iin	Pout	Losses	Efficiency
0.000	1.208	12.03	0.0047	0.00	0.057	0.1%
0.201	1.207	12.02	0.026	0.24	0.070	77.6%
0.403	1.205	12.01	0.049	0.49	0.103	82.5%
0.602	1.204	12.00	0.073	0.72	0.151	82.7%
0.799	1.203	11.98	0.097	0.96	0.201	82.7%
1.004	1.201	12.00	0.123	1.21	0.270	81.7%
1.202	1.200	12.02	0.150	1.44	0.361	80.0%
1.402	1.199	12.00	0.178	1.68	0.455	78.7%
1.600	1.198	12.00	0.208	1.92	0.579	76.8%
1.700	1.198	12.01	0.223	2.04	0.642	76.0%

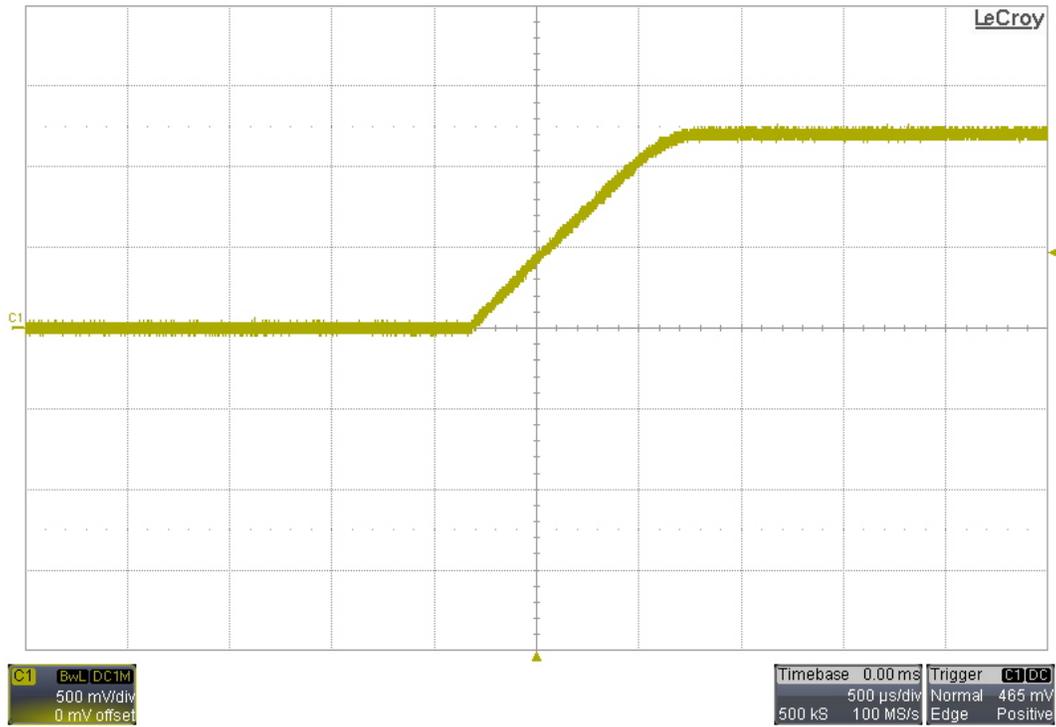
3 Thermal Image

The ambient temperature was 25°C, with no forced air flow. The 1.2V output was loaded with 1.7A. The input was 12Vdc.

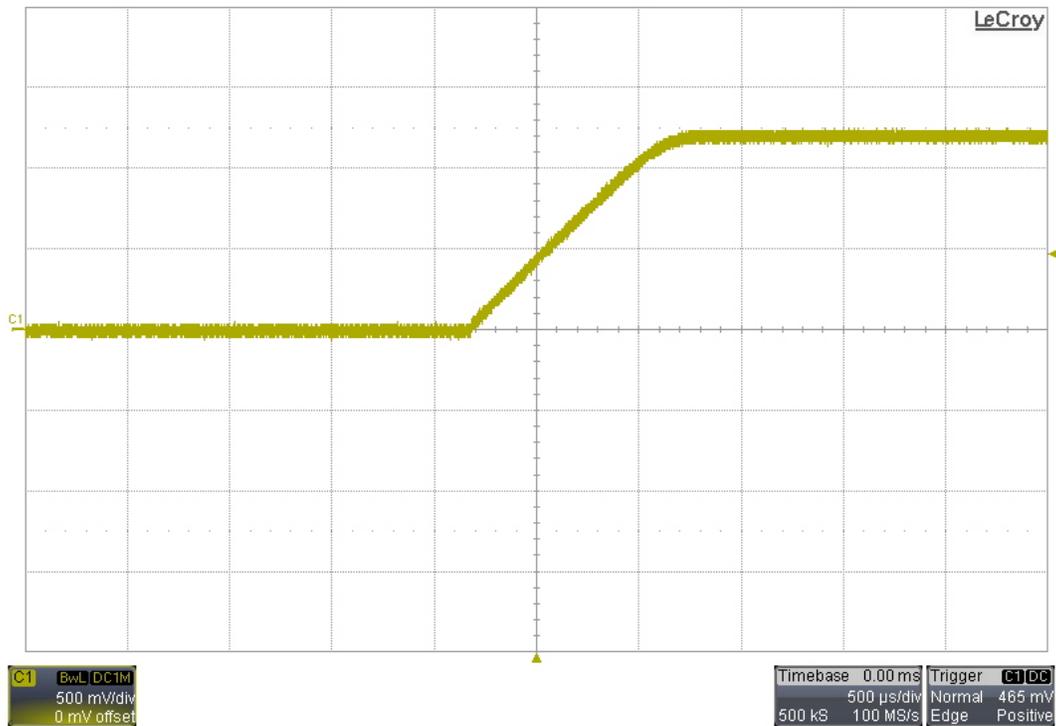


Spot analysis	Value
L3 Temperature	59.4°C
U4 Temperature	60.9°C

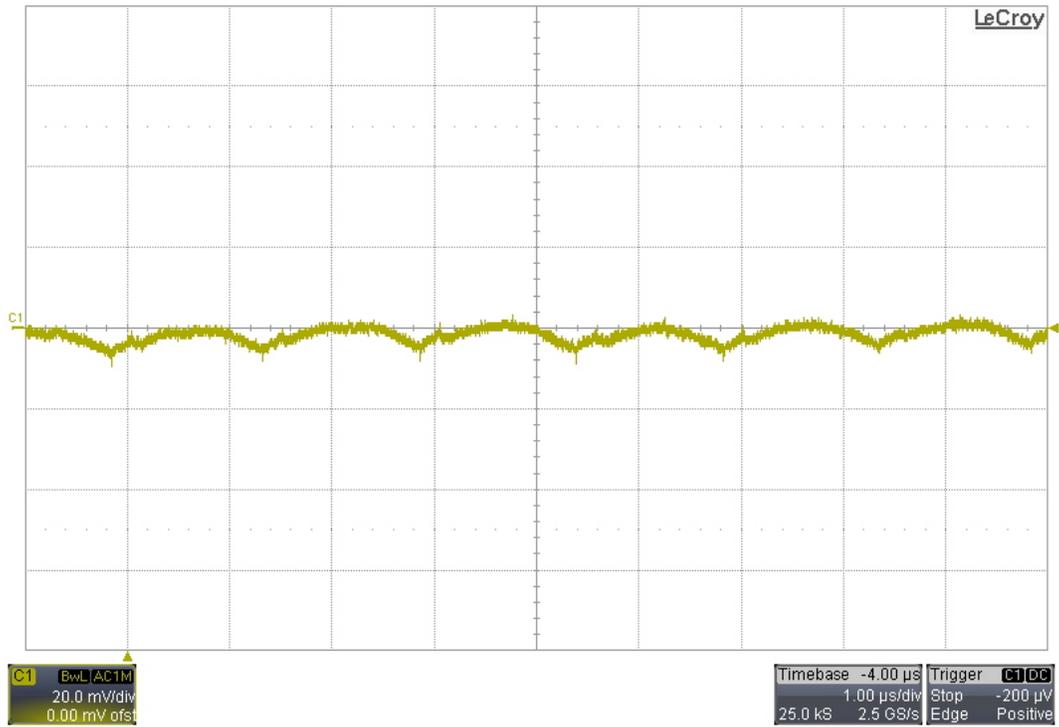
4 Startup – No Load



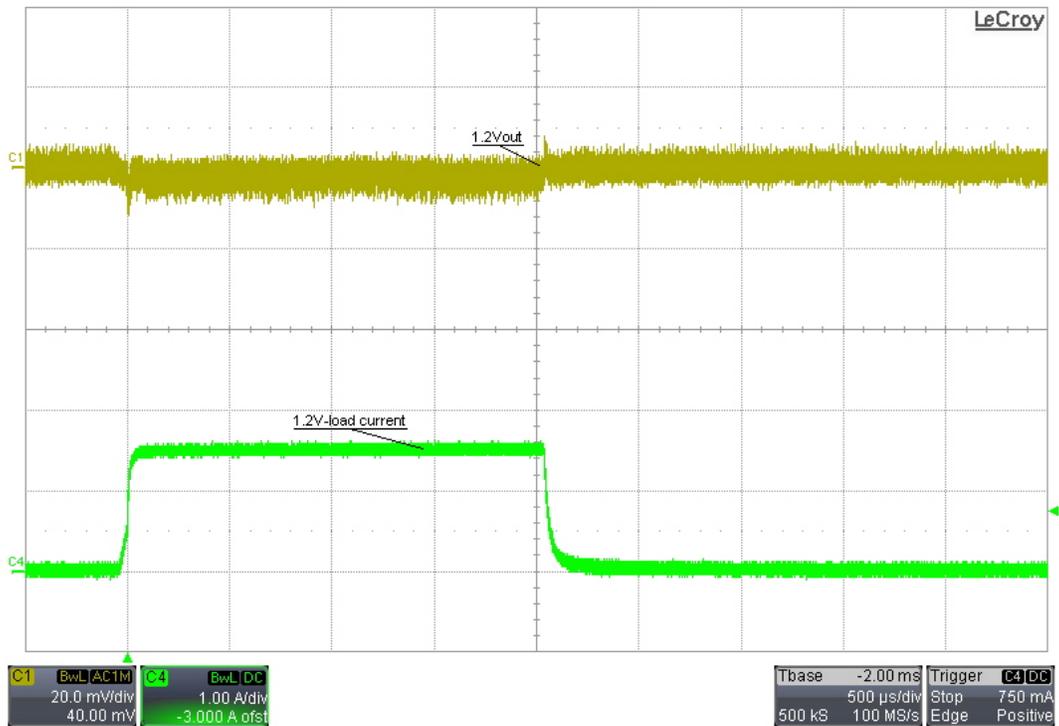
5 Startup – 1 Ω Load



6 Output Ripple Voltage

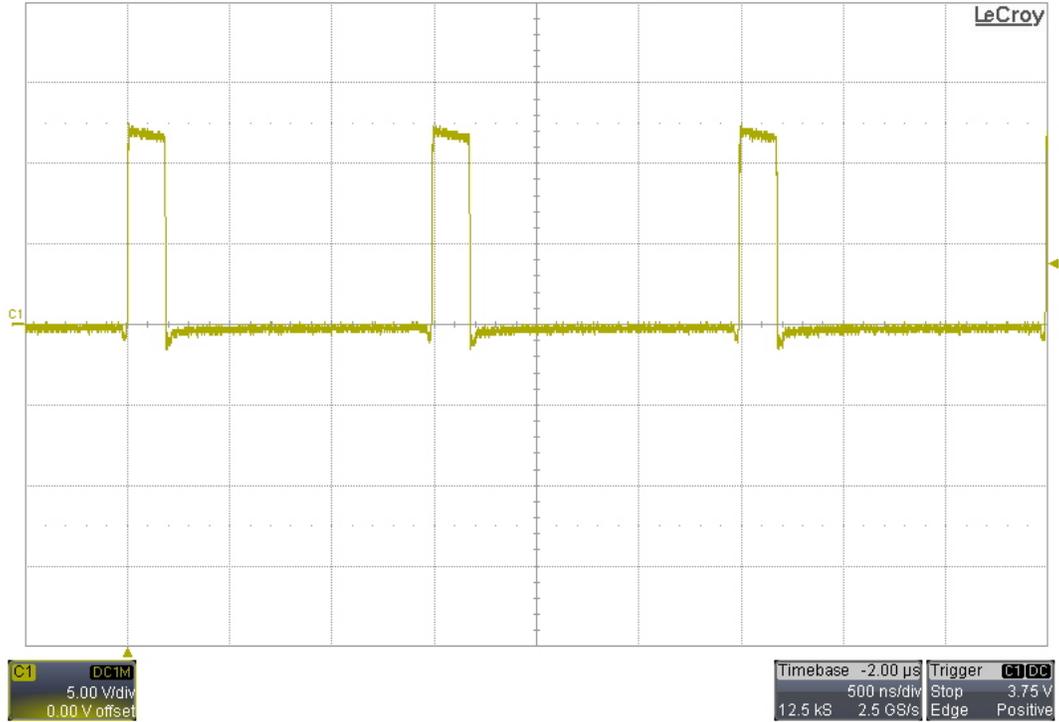


7 0A to 1.5A Transient



8 Switching Waveform

The image below shows the on pin 2 (SW) of U4.



IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (<https://www.ti.com/legal/termsofsale.html>) or other applicable terms available either on [ti.com](https://www.ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2021, Texas Instruments Incorporated