

1 Switch Node

Input voltage = 9.6V
 Output current = 1.0A



PMP5679 RevA Test Results

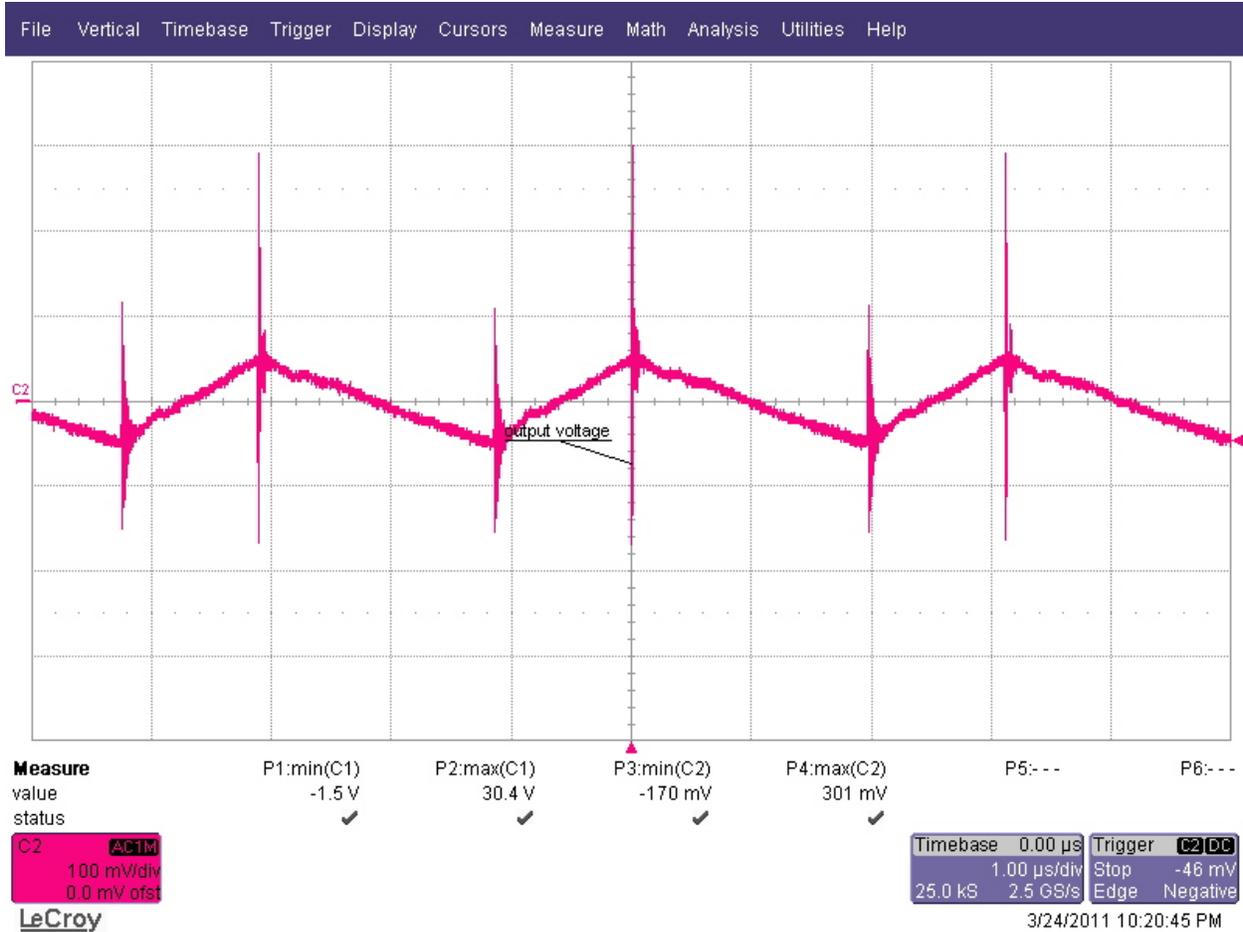


Input voltage = 15V
Output current = 1.0A



2 Output ripple

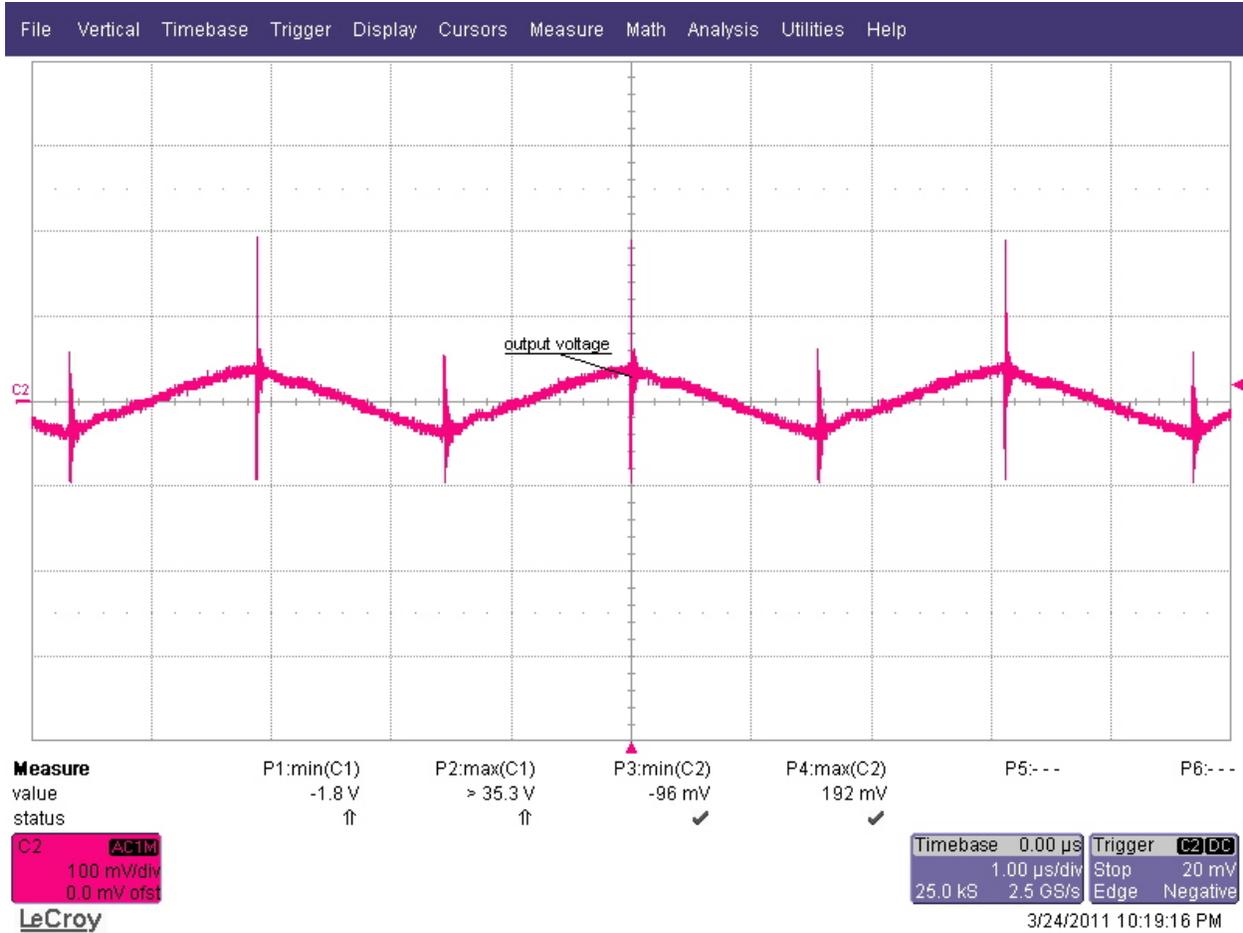
Input voltage = 9.6V
Output current = 1.0A



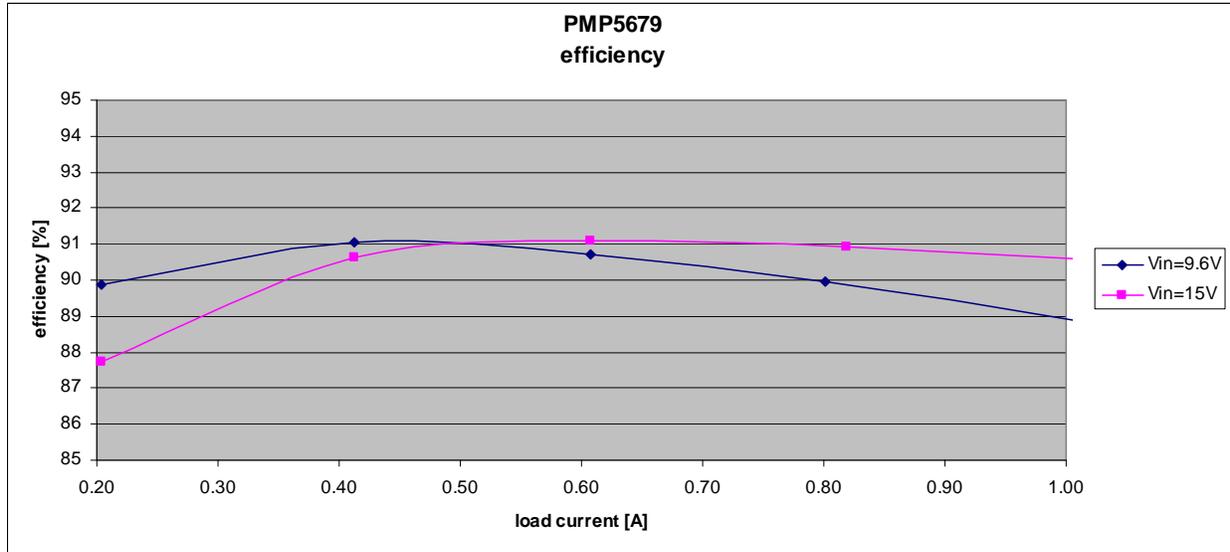
PMP5679 RevA Test Results



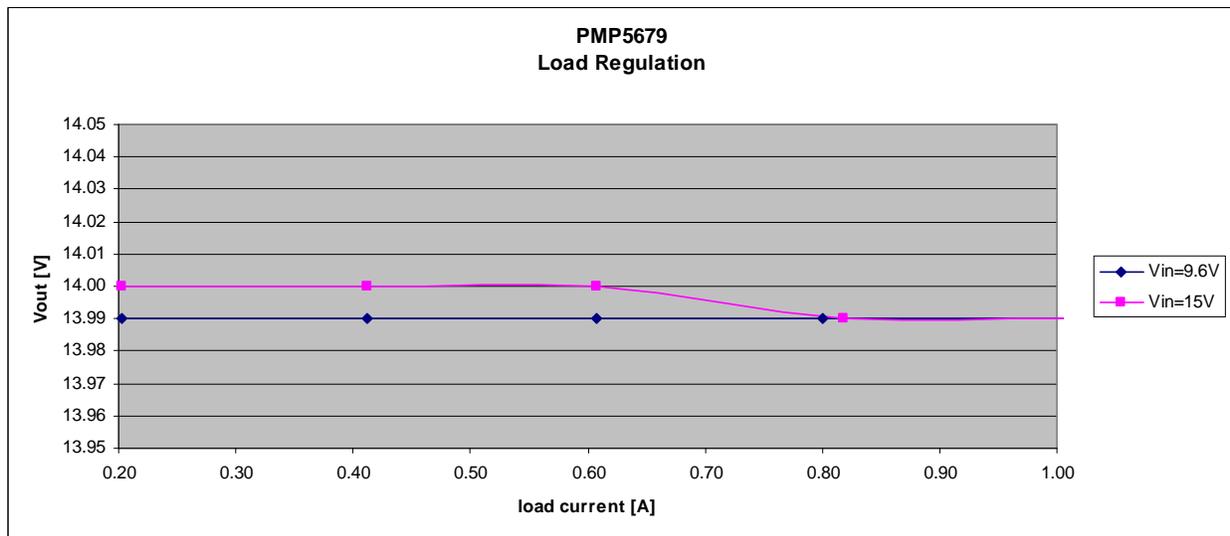
Input voltage = 15V
Output current = 1.0A



3 Efficiency

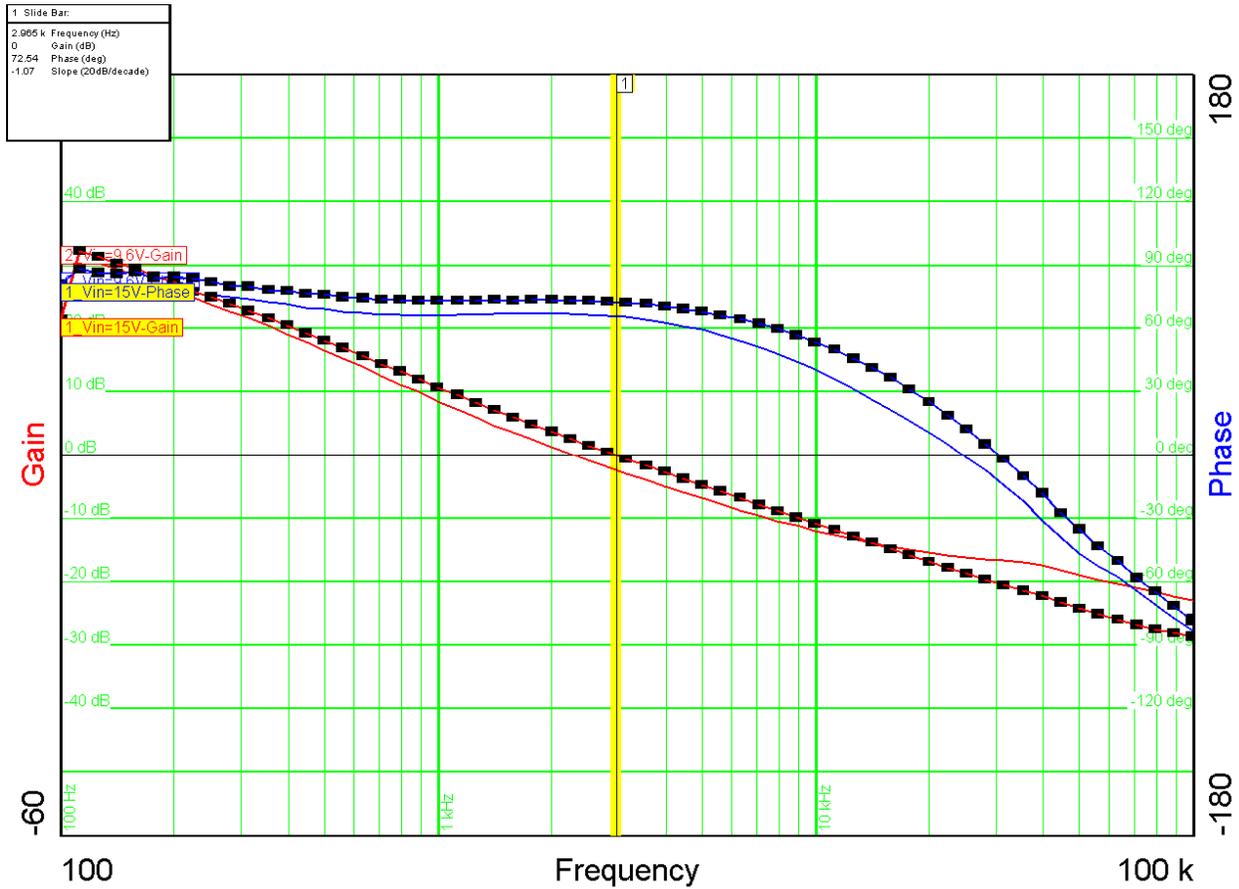


4 Load regulation



5 Loop response

The image below shows the loop response of the converter measured with 9.6V and 15V at the input and full load (1A).



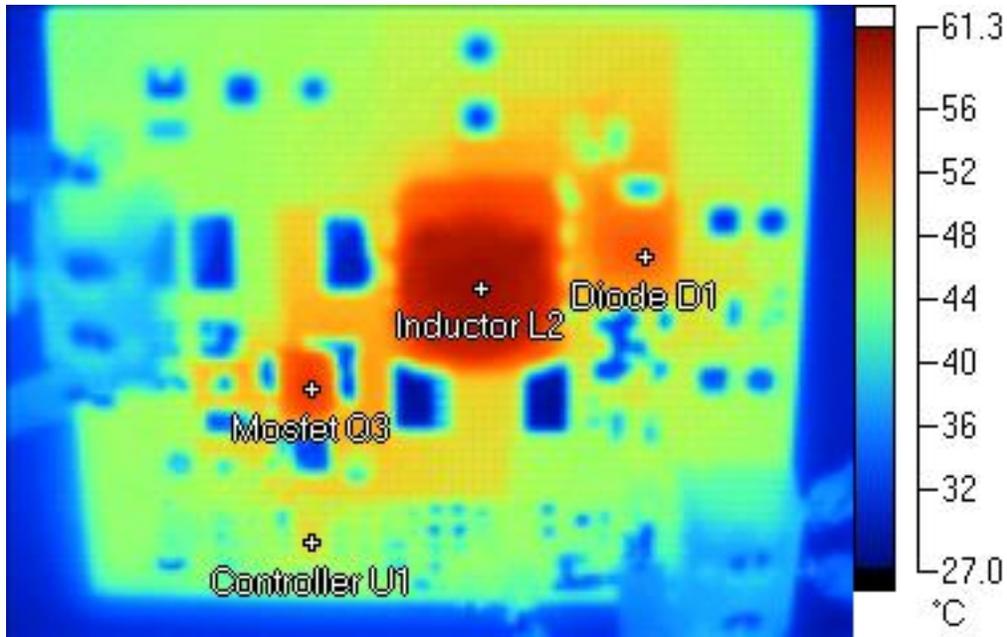
Input voltage = 15V
 Phase margin = 72.5deg
 Bandwidth = 2.97kHz

6 Thermal Analysis

The images below show the infrared images taken from the FlexCam after 15min at full load (14V@1A).

Input voltage = 9.6V

Ambient temperature = 22°C



Name	Temperature
Inductor L2	60.3°C
Diode D1	54.7°C
Mosfet Q3	56.6°C
Controller U1	48.8°C

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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