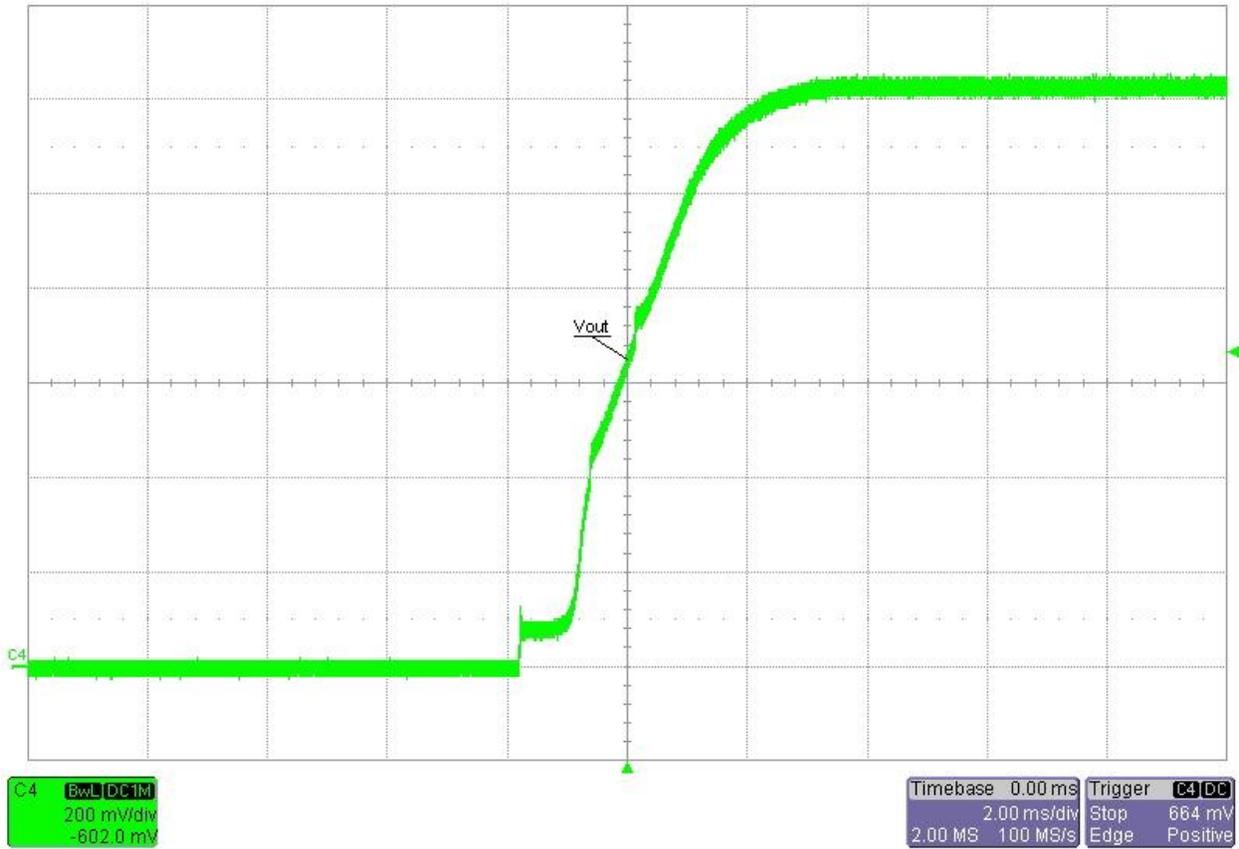
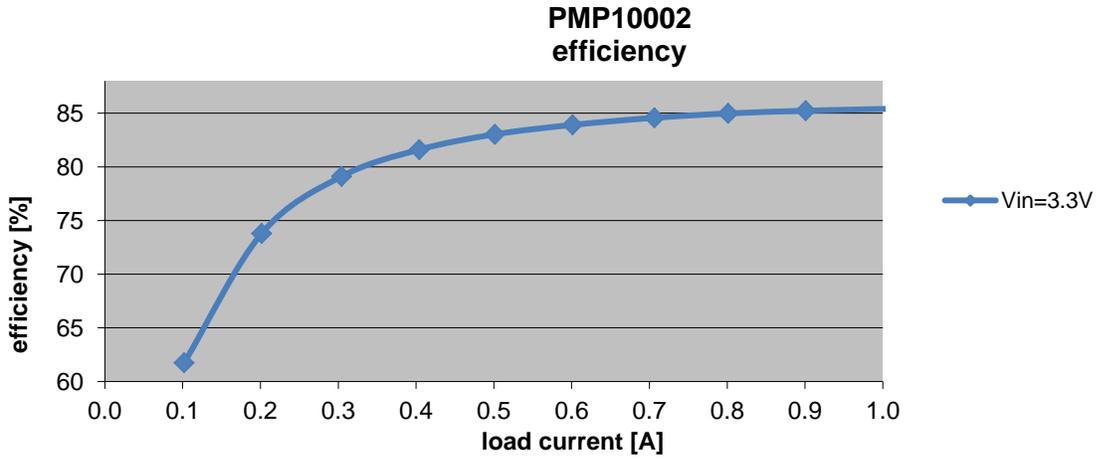


1 Startup

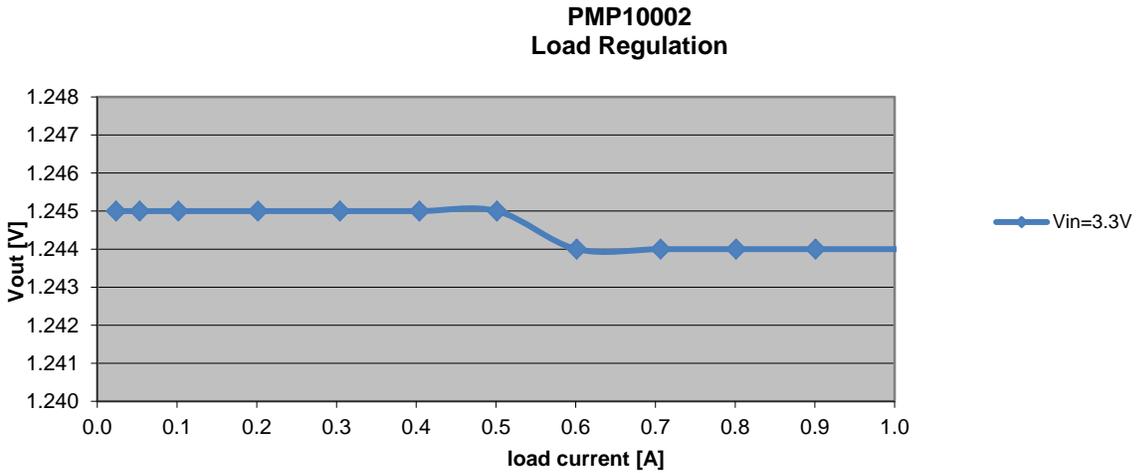
Input voltage = 3.3VDC
Load current = full load (1.0A)



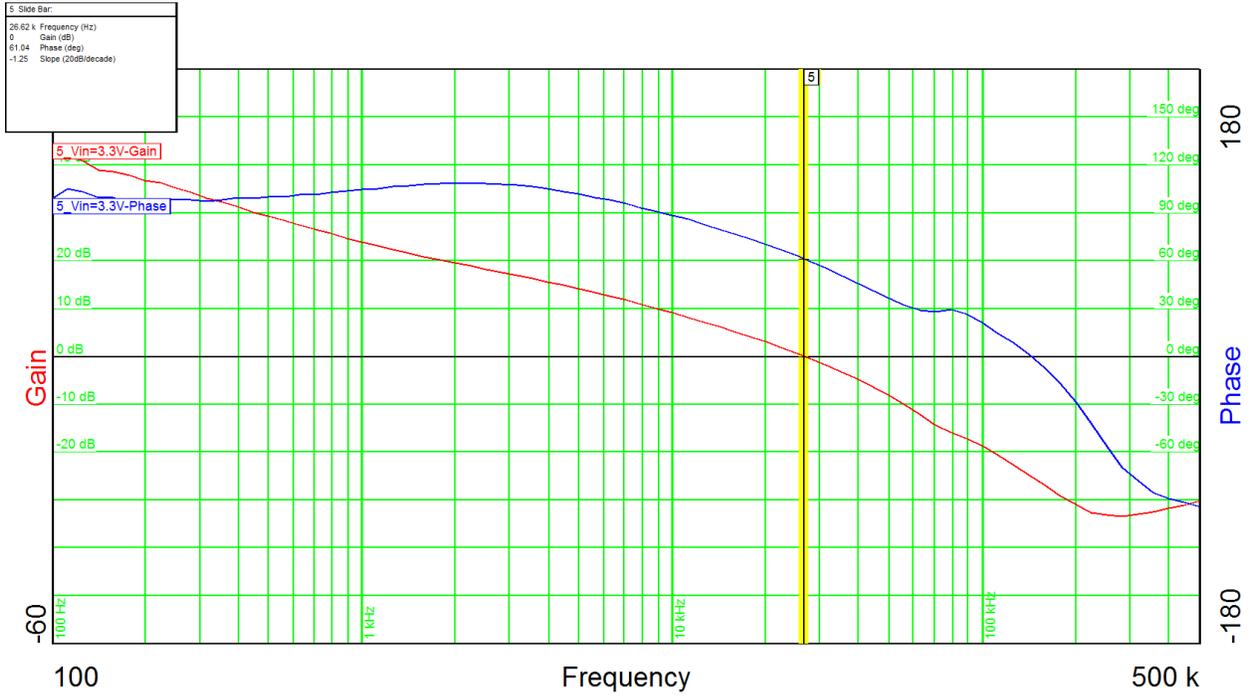
2 Efficiency



3 Load regulation



4 Control Loop Frequency Response



Output power = 3.3V@1.0A
Input voltage = 3.3VDC
Phase margin = 61°
Bandwidth = 26.6kHz

5 Switch Node

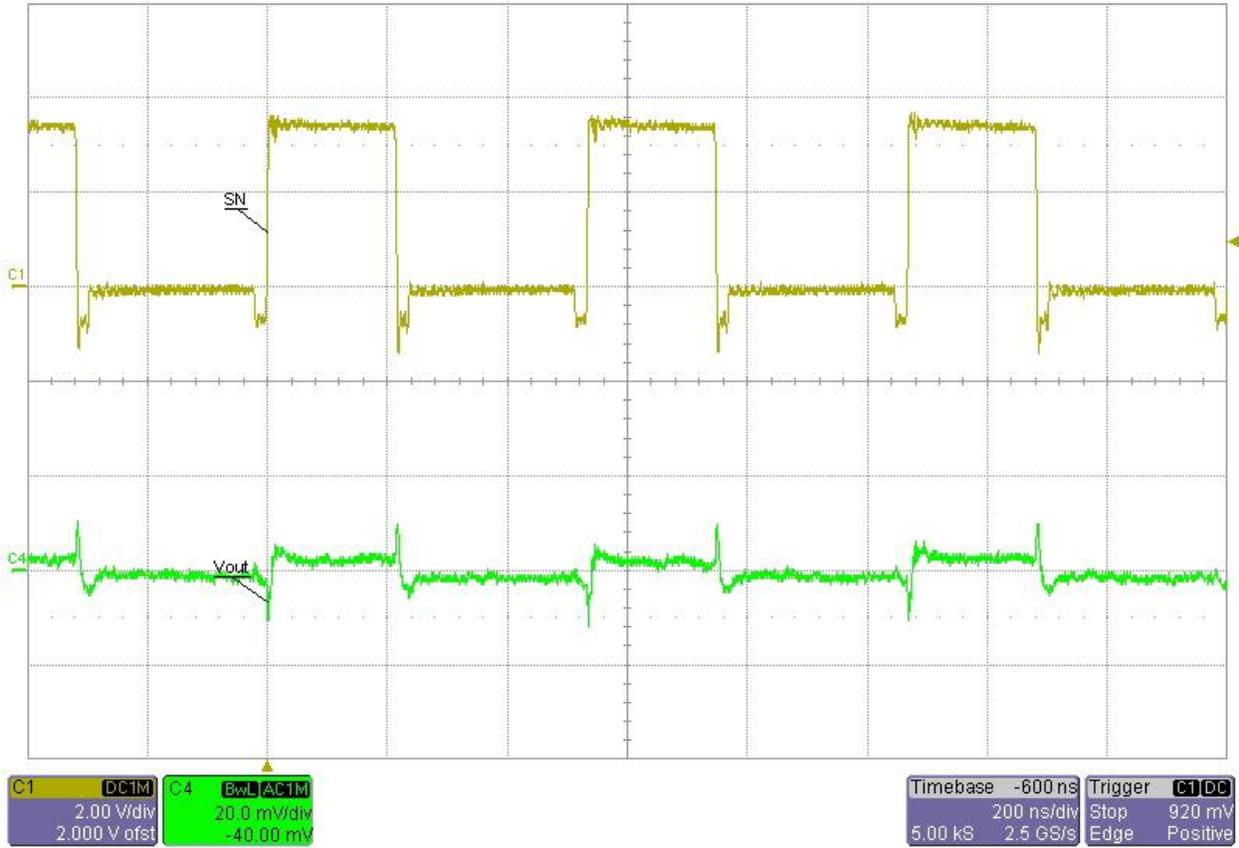
Input voltage = 3.3VDC
Load current = full load (1.0A)



6 Output ripple voltage

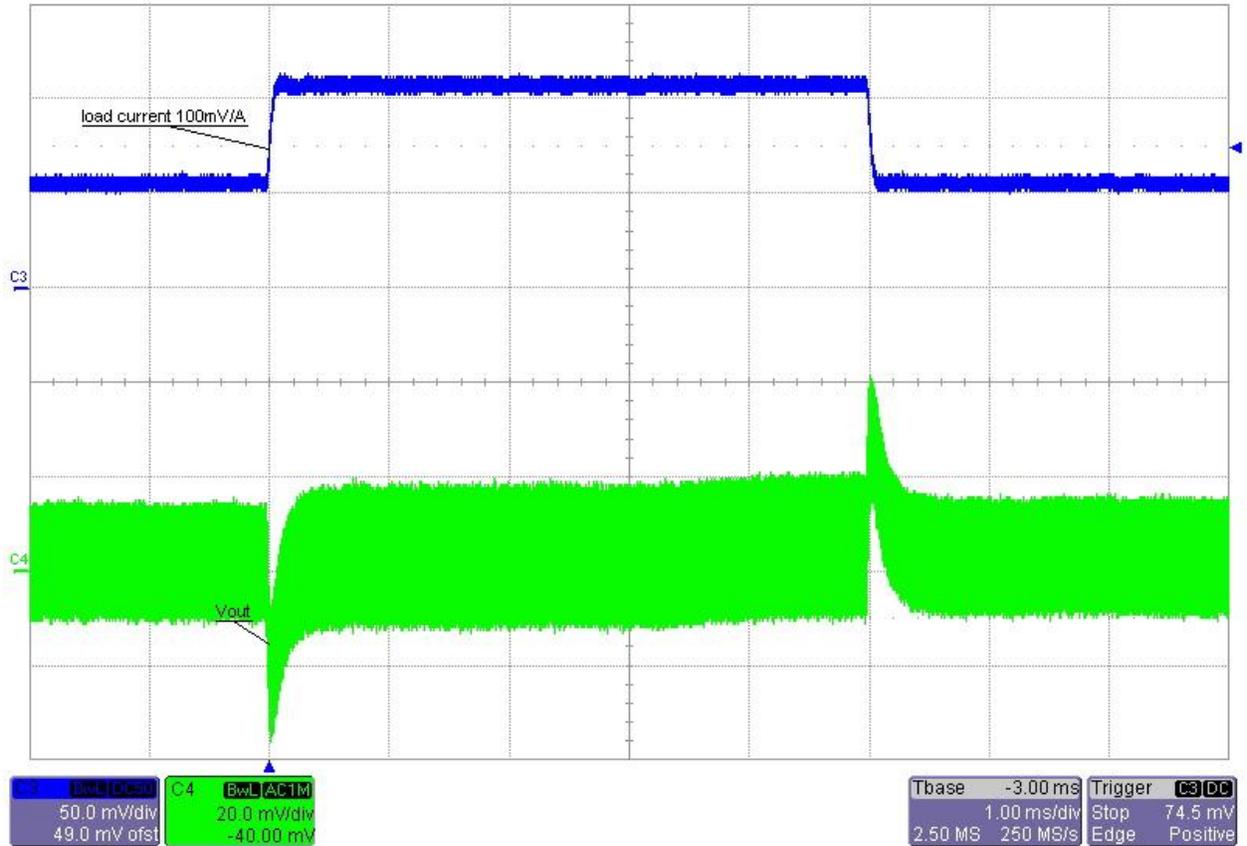
Input voltage = 3.3VDC

Load current = full load (1.0A)



7 Load Transients

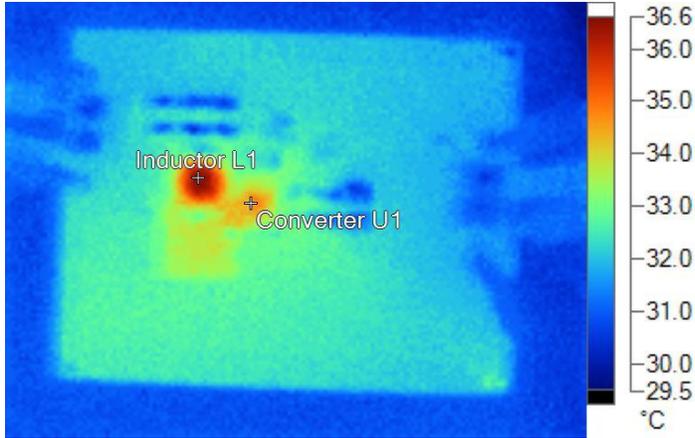
Input voltage = 3.3VDC
Load current = 0.5A to 1.0A



8 Thermal Analysis

The images below show the infrared images taken from the FlexCam after 15min at full load (1.25V@1.0A).

Input voltage = 3.3V
Output power = 1.25W
Ambient temperature = 25°C
No heatsink, no airflow



Name	Temperature	
Inductor L1	36.6°C	
Converter U1	34.8°C	

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