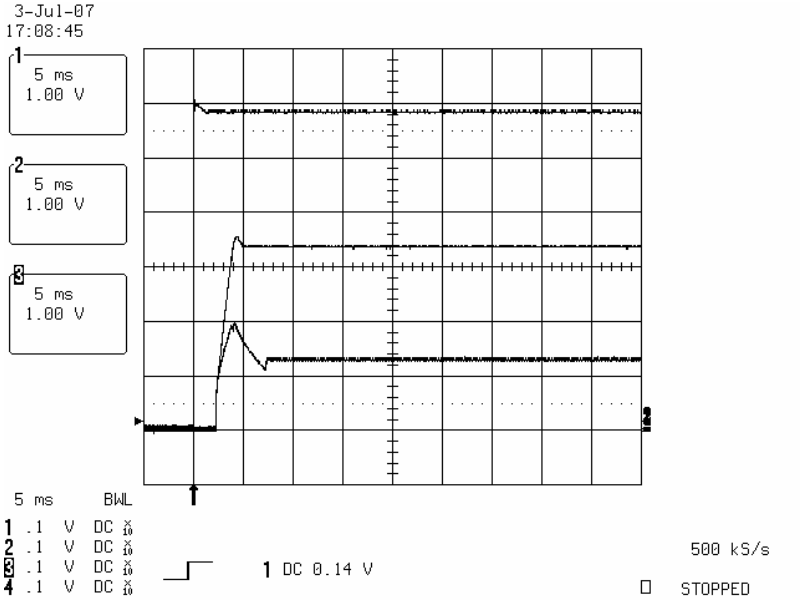
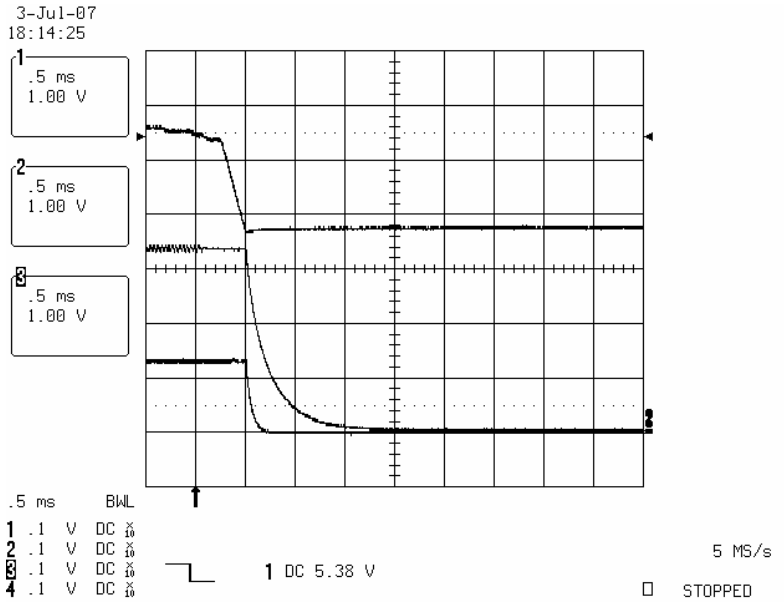
1 Startup

The startup waveform is shown in the figure below. The input voltage is set at 5.6V, with no load on the output.
Channel 1 : Vout
Channel 2 : Vin



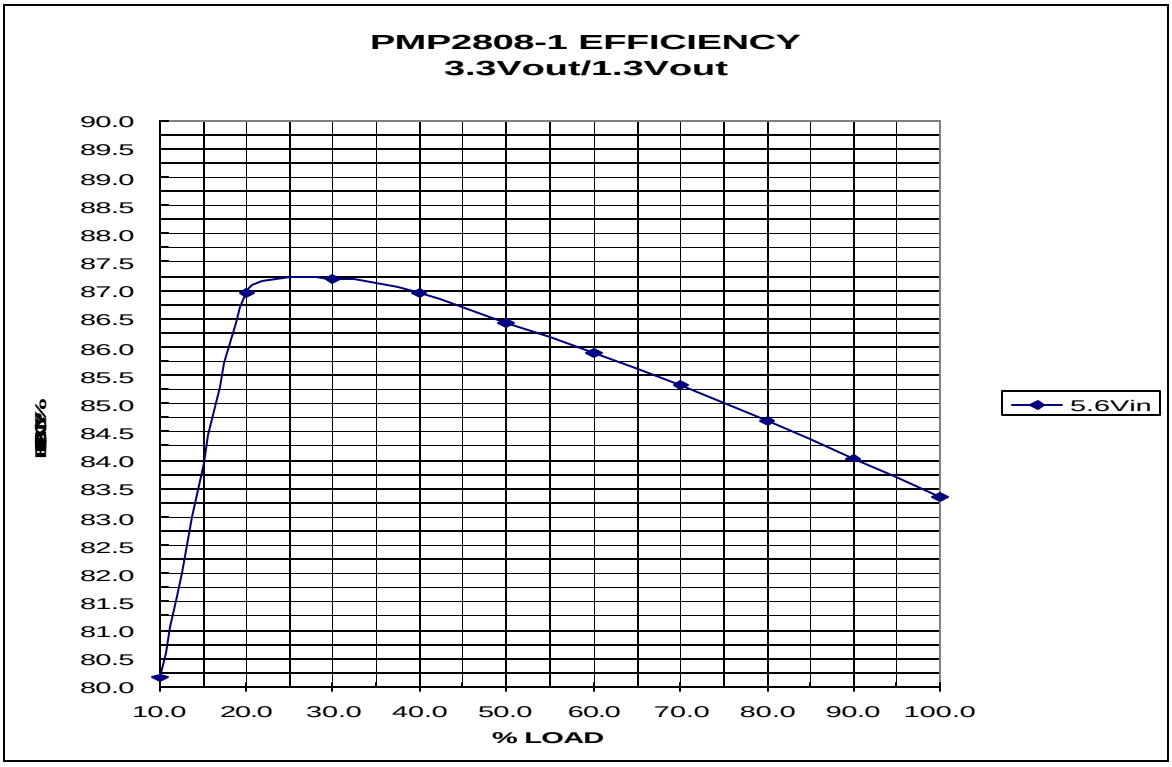
2 Shutdown

The shutdown waveform is shown in the figure below. The input voltage is set at 5.6V, with a 500mA load on the output.
Channel 1 : Vin
Channel 2 : Vout



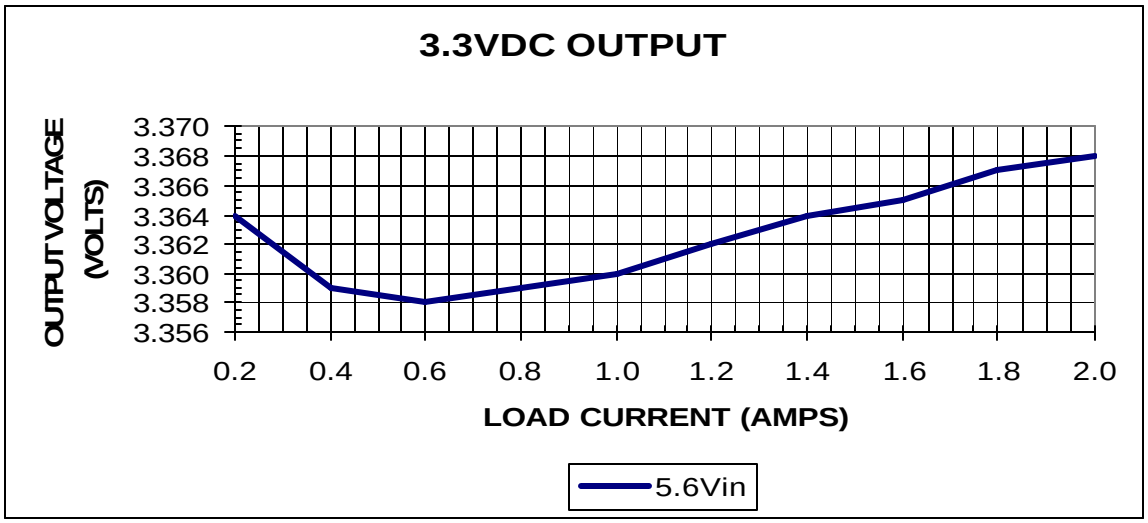
3 Efficiency

The efficiency is shown in the figure below.

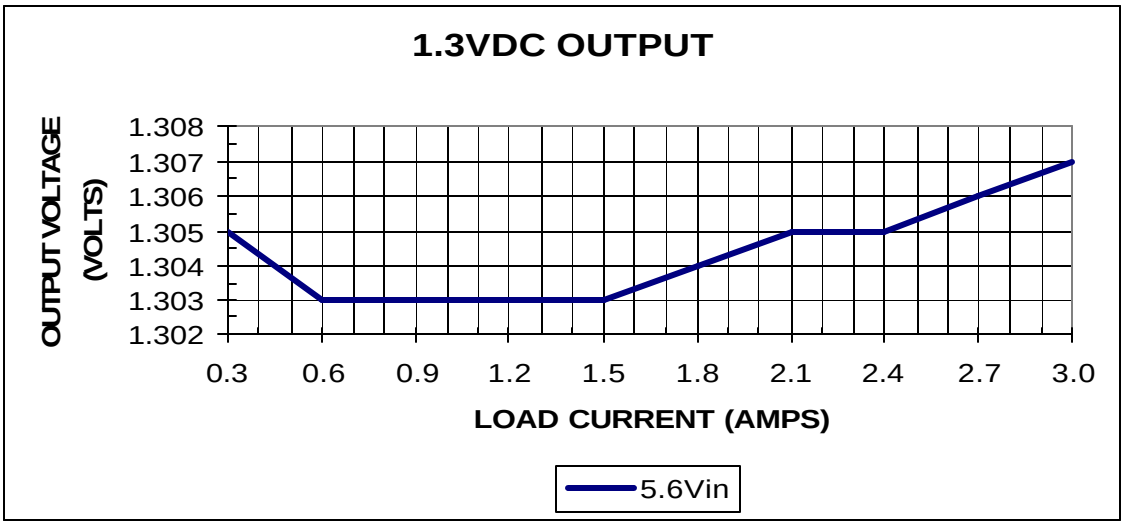


4 Load Regulation

The load regulation of the 3.3V output is shown in the graph below.

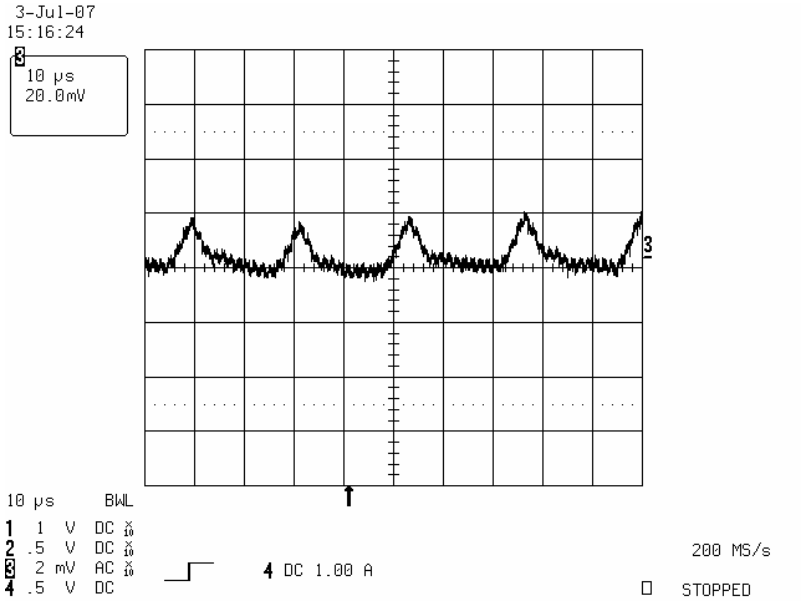


The load regulation of the 1.3V output is shown in the graph below.

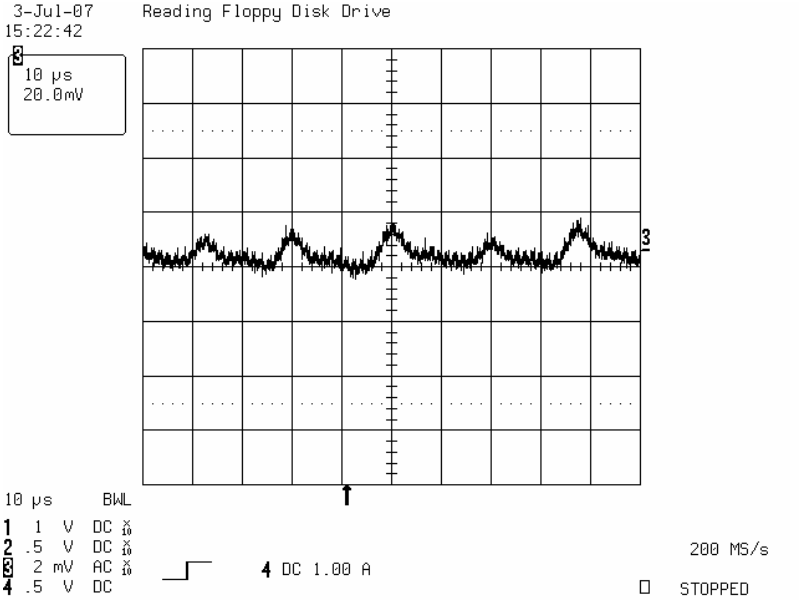


5 Output Ripple Voltage

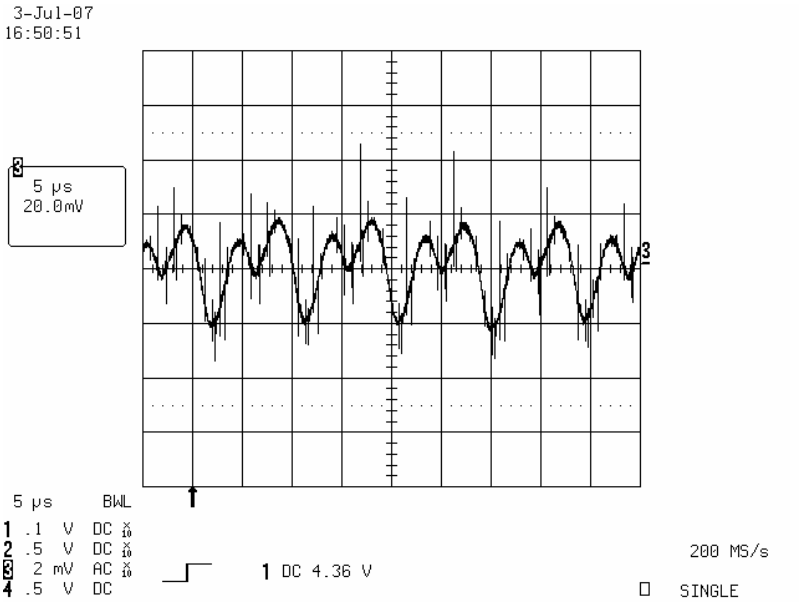
The output ripple voltage of the 3.3V output is shown in the figure below. The image was taken with a 360mA load.



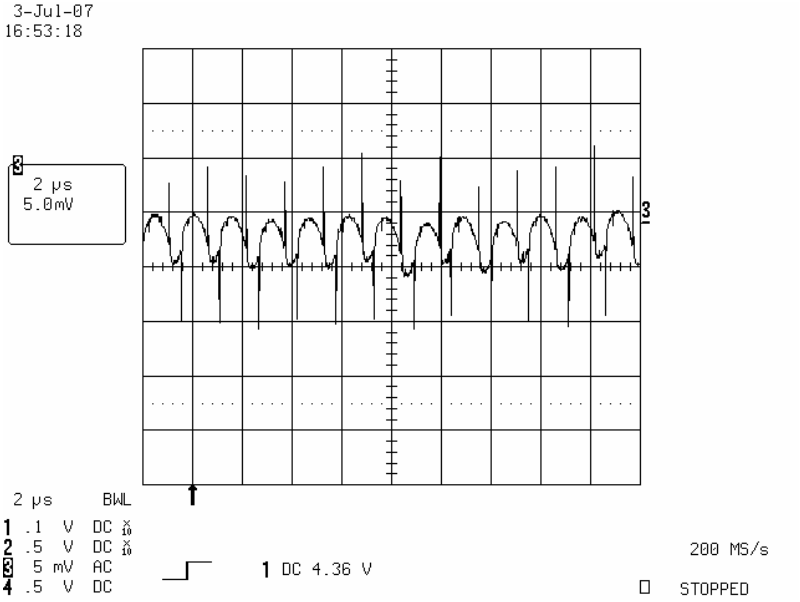
The output ripple voltage of the 3.3V output is shown in the figure below. The image was taken with a 1.8A load.



The output ripple voltage of the 1.3V output is shown in the figure below. The image was taken with a 600mA load.



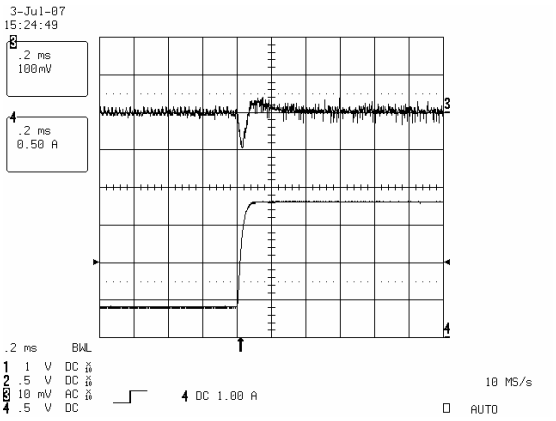
The output ripple voltage of the 1.3V output is shown in the figure below. The image was taken with a 3A load.

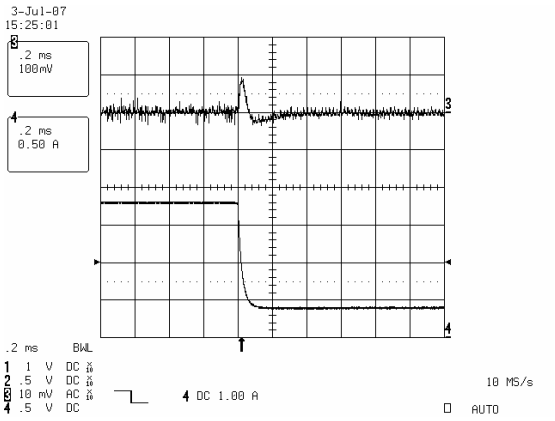


6 Load Transients

The figures below show the response of the 3.3V output to load transients. The input voltage was set to 5.6V.

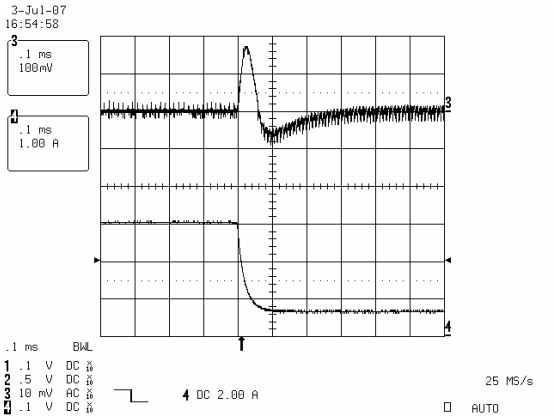
Channel 3 : Vout (AC coupled)
Channel 4 : Load current

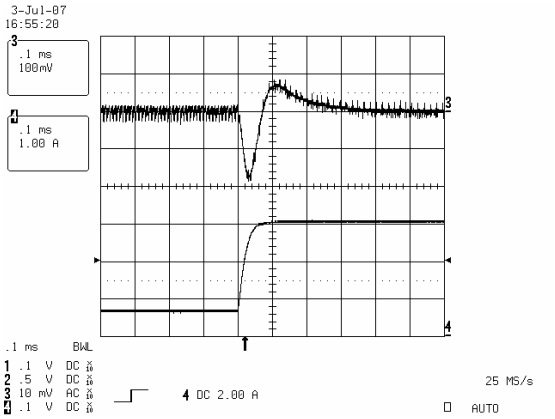




The figures below show the response of the 1.3V output to load transients. The input voltage was set to 5.6V.

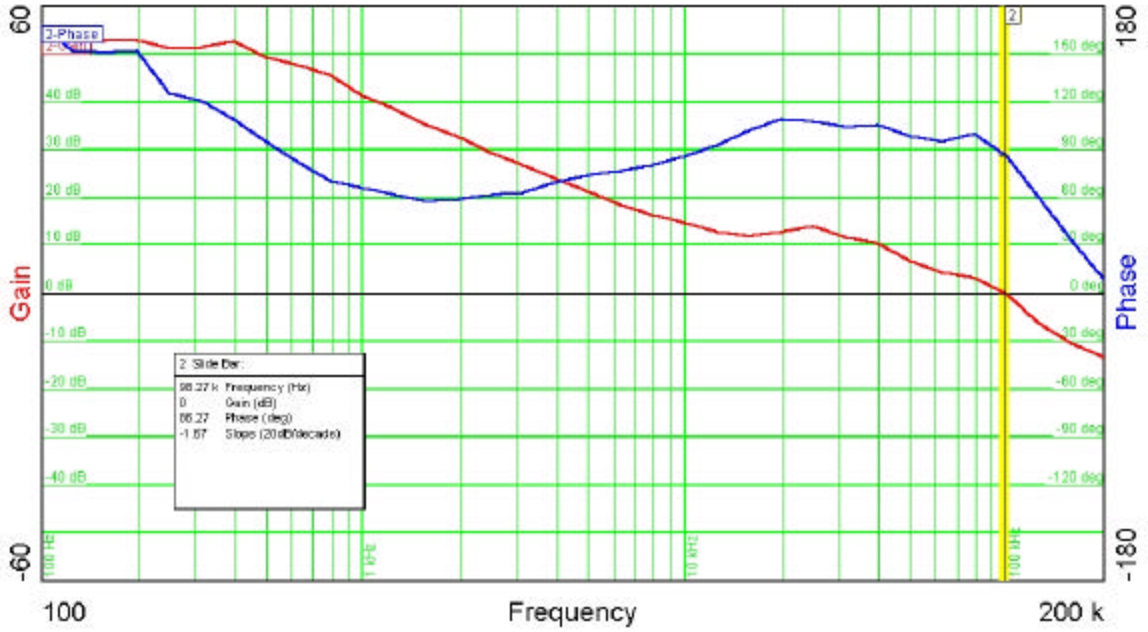
Channel 3 : Vout (AC coupled)
Channel 4 : Load current



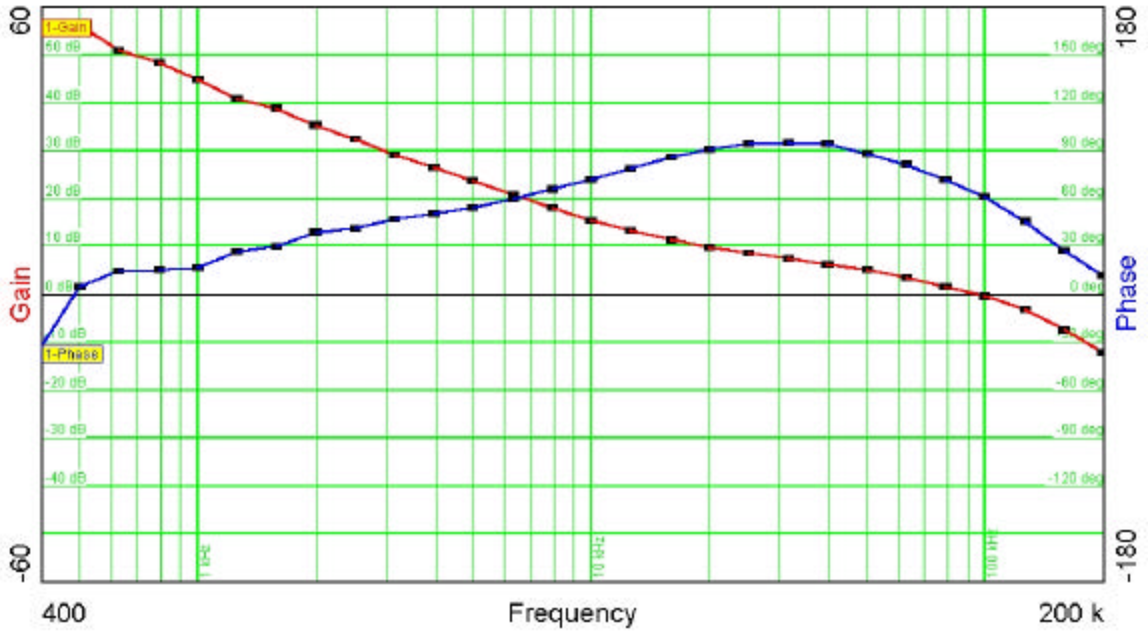


7 Frequency Response

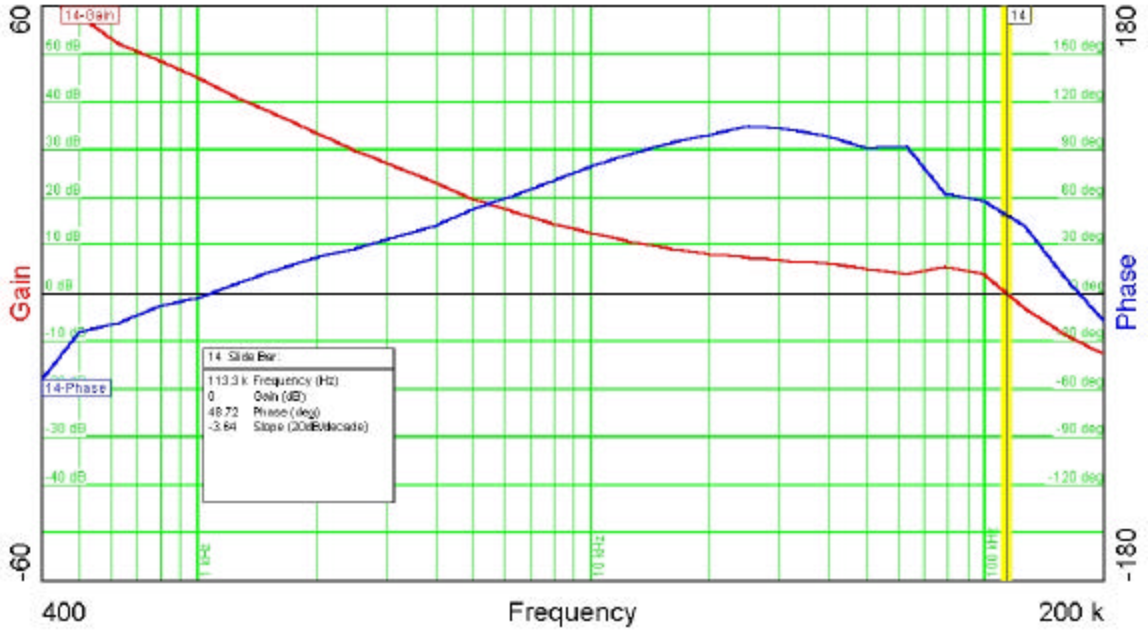
The figure below shows the loop response of the 3.3V output with a 5.6V input and a 360mA load.



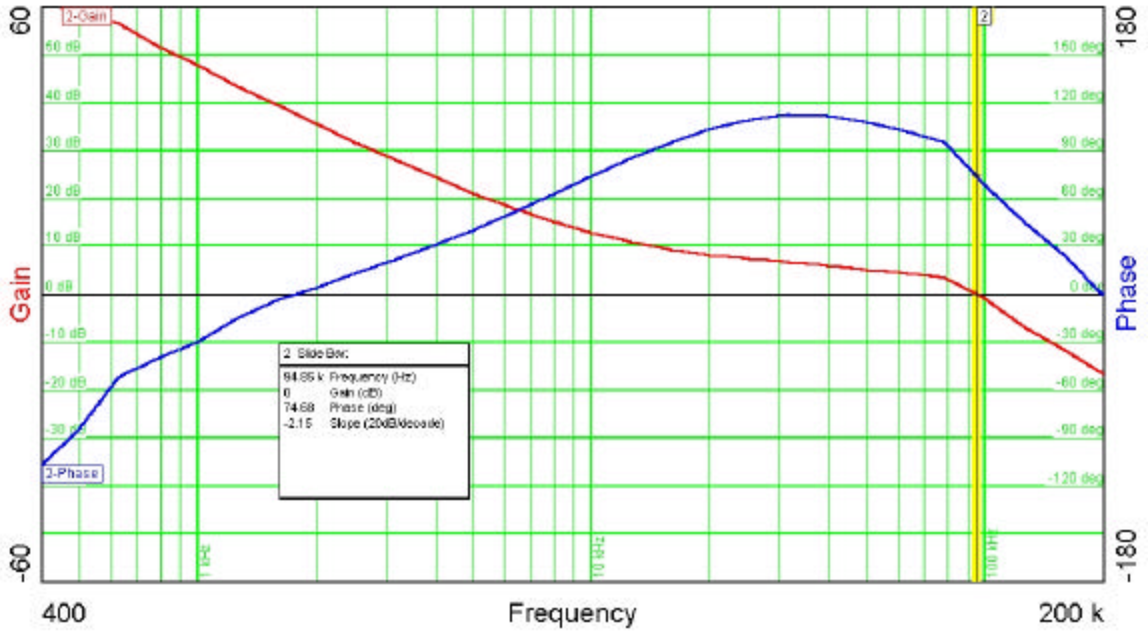
The figure below shows the loop response of the 3.3V output with a 5.6V input and a 1.8A load.



The figure below shows the loop response of the 1.3V output with a 5.6V input and a 600mA load.

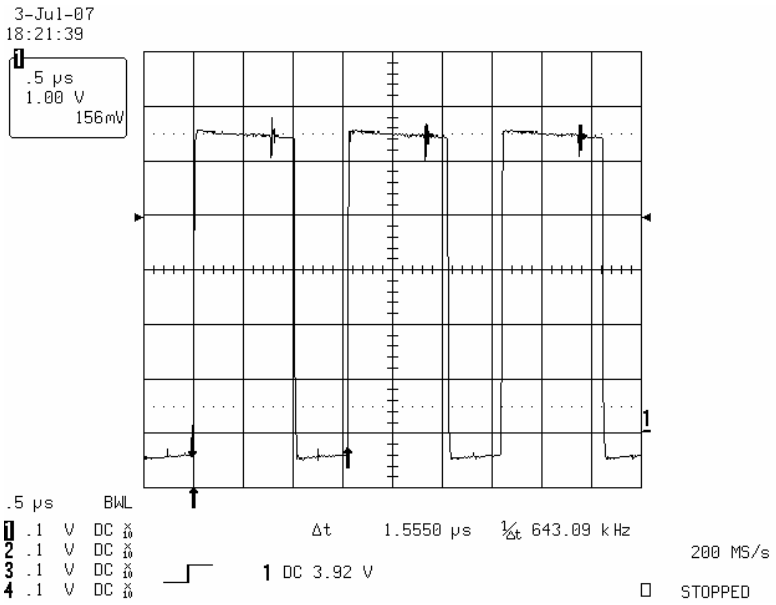


The figure below shows the loop response of the 1.3V output with a 5.6V input and a 3A load.

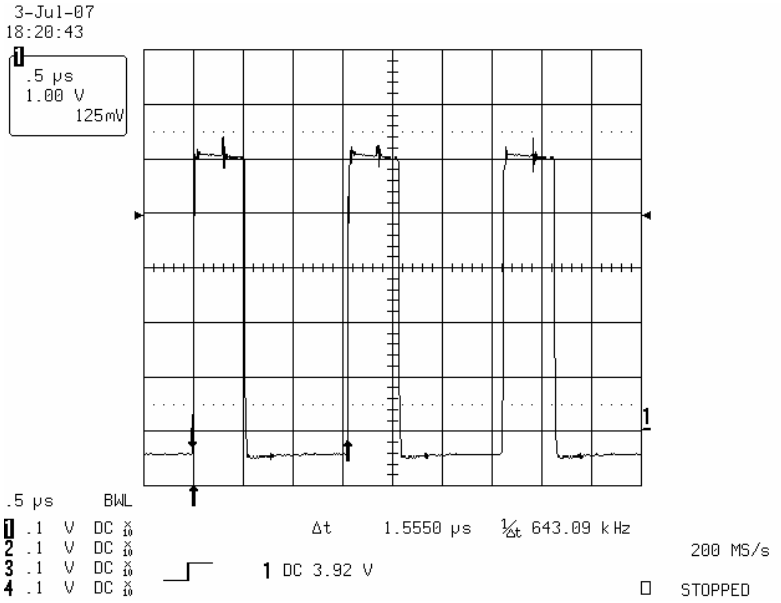


8 Miscellaneous Waveforms

The figure below shows the voltage waveform on the phase node of the 3.3Voutput. This image was captured with a 5.6V input and a 1.8A load.



The figure below shows the voltage waveform on the phase node of the 1.3Voutput. This image was captured with a 5.6V input and a 3A load.



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