Output Ripple Voltage / Switching Frequency

Simulation Setting
Type: Time Domain
Run Time: 5msec

Figure 1.
Simulation Schematic

Figure 2.
Output Ripple Voltage / Switching Frequency
(Measured Waveform)

Figure 3.
Output Ripple Voltage / Switching Frequency
(ROHM Solution Simulator)

Table 1. Characteristics Comparison

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measured Result (Note 1,2)</th>
<th>Simulation Result</th>
<th>Unit</th>
<th>Error</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Ripple Voltage</td>
<td>8.0</td>
<td>4.8</td>
<td>mV</td>
<td>40.0%</td>
<td>-</td>
</tr>
<tr>
<td>Switching Frequency</td>
<td>500</td>
<td>510.2</td>
<td>kHz</td>
<td>1.8%</td>
<td>R6=27kΩ</td>
</tr>
</tbody>
</table>

(Note 1) The above data is based on a specific sample and it is not a guaranteed value.
(Note 2) These characteristics depend on some dynamic characteristics of external components, input signal speed, PCB pattern and mounting condition of each on-board parts.