**BD90640HFP Frequency Domain**

**ROHM Solution Simulator**

**Frequency Characteristic**

![Simulation Schematic](image1)

**Simulation Setting**
- Type: Frequency Domain
- Frequency Range: 100Hz to 1MHz

**Figure 1. Simulation Schematic**

![Frequency Characteristic](image2)

**Figure 2. Frequency Characteristic (Datasheet)**

![Frequency Characteristic](image3)

**Figure 3. Frequency Characteristic (ROHM Solution Simulator)**

**Table 1. Characteristics Comparison**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Datasheet (Note 1,2)</th>
<th>Simulation Result</th>
<th>Unit</th>
<th>Error</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase Margin</td>
<td>63</td>
<td>66.4</td>
<td>degree</td>
<td>5.4%</td>
<td>At Gain = 0dB</td>
</tr>
<tr>
<td>Gain Margin</td>
<td>17</td>
<td>16.5</td>
<td>dB</td>
<td>2.9%</td>
<td>At Phase = 0degree</td>
</tr>
<tr>
<td>Crossover Frequency</td>
<td>28</td>
<td>27.2</td>
<td>kHz</td>
<td>2.9%</td>
<td>At Gain = 0dB</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.