PCN: V12-004-476103-0A

Product Change Notice

Issue Date: 30-March-2012

Change Type:
To improve incremental output dynamic performance for AEAT-6600-T16 to meet wide customer application requirements. Revise encoding characteristic absolute output with higher integral non-linearity tolerances.

Parts Affected:
AEAT-6600-T16.

Description and Extent of Change:
- Low RPM incremental dynamic performance
- Low dynamic performance around 1300 RPM
- False pulsing of incremental output when stationary

Reasons for Change:
- Enhance incremental dynamic performance to support wide range of RPM operation
- Resolve false pulsing of incremental output when stationary
- Revise absolute output integral non-linearity specification to reflect higher maximum deviation with tolerances

Effect of Change on Fit, Form, Function, Quality, or Reliability:
There is no physical form and fit change. Changes are the absolute and incremental outputs encoding characteristics as highlighted below.

The change improved dynamic performance with wider RPM operation, affect the INL and dynamic performance as reflected in the data sheet published on March’2012.

With the characterization and tolerances, datasheet was updated with the below mentioned parameters

1) Improved dynamic performance with wider range of RPM operation:
Incremental Output: Velocity Operation :- 1RPM to 30,000RPM

2) Encoding characteristics - Absolute Output : Integral Non-Lineariry

<table>
<thead>
<tr>
<th>Integral Non-Linearity (optimum)</th>
<th>INL_{nom}</th>
<th>–</th>
<th>±0.4</th>
<th>±0.9</th>
<th>Deg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INL</td>
<td>±1.9</td>
<td>Deg.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum Error with respect to best line fit. Verified at nominal mechanical magnet placement. Tamb = 25°C

3) Encoding Characteristics -Incremental Output : Cycle Error

<table>
<thead>
<tr>
<th>Cycle Error</th>
<th>ΔC</th>
<th>–</th>
<th>7</th>
<th>60</th>
<th>‘e</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>16, 32, 64, 128 CPR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>256 CPR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>512, 1024 CPR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Effective Date of Change:**
Product shipment using this change will commence on March 2012. Datasheet was updated and published in the website on March 2012.

**Qualification:**
Product qualified for volume production. Customer is encouraged to evaluate the product application requirements.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure.

Please contact your Avago Technologies field sales engineer or Contact Center (http://www.avagotech.com/contact/) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.