Mechanical Data

- Case: PowerDI®3333-8 (Type UX)
- Case Material: Molded Plastic, “Green” Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.072 grams (Approximate)

Package View

Package Outline

Suggested Pad Layout

Note:
- The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application. These dimensions may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the ‘Z’ dimension. For further information, please reference document IPC-7351A, Naming Convention for Standard SMT Land Patterns, and for International grid details, please see document IEC, Publication 97.
- For high voltage applications, the appropriate industry sector guidelines should be considered with regards to creepage and clearance distances between device Terminals and PCB tracking.
Minimum Packing Quantity

<table>
<thead>
<tr>
<th>Reel Size</th>
<th>Quantity</th>
<th>Tape Width</th>
<th>Part Number Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>7&quot; Reel</td>
<td>2,000</td>
<td>12mm</td>
<td>-7</td>
</tr>
<tr>
<td>13&quot; Reel</td>
<td>3,000</td>
<td>12mm</td>
<td>-13</td>
</tr>
</tbody>
</table>

Note: Package quantities given are for minimum packaging quantity only, not minimum order quantity. For minimum order quantity, please contact Sales Department.

Note: No mixed date codes or partial quantity (less than minimum packaging quantity) per packaging is allowed.

Note: In no case shall there be two or more consecutive components missing from any reel for any reason.

Device Tape Orientation

<table>
<thead>
<tr>
<th>Tape Width</th>
<th>Part Number Suffix</th>
<th>Tape Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-13</td>
<td></td>
</tr>
</tbody>
</table>

Note: For part marking, refer to product datasheet.

Note: Tape and package drawings are not to scale and are shown for device tape orientation only.

Embossed Carrier Tape Specifications

<table>
<thead>
<tr>
<th>Tape Width (W)</th>
<th>Dimension</th>
<th>Value (mm)</th>
<th>Dimension</th>
<th>Value (mm)</th>
<th>Dimension</th>
<th>Value (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>D</td>
<td>1.55 ±0.05</td>
<td>F</td>
<td>5.50 ±0.05</td>
<td>P2</td>
<td>2.00 ±0.10</td>
</tr>
<tr>
<td></td>
<td>D1</td>
<td>1.55 ±0.10</td>
<td>P</td>
<td>8.00 ±0.10</td>
<td>t</td>
<td>0.25 ±0.02</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>1.75 ±0.10</td>
<td>P0</td>
<td>4.00 ±0.10</td>
<td>W</td>
<td>12.0 ±0.3/-0.1</td>
</tr>
<tr>
<td></td>
<td>A0 B0 K0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Determined by component size. The clearance between the component and the cavity must comply to the rotational and lateral movement requirement provided in figures in the "Maximum Component Movement in Tape Pocket" section.
Embosed Carrier Tape Specifications (Continued)

Top cover tape thickness 0.10mm max.

Cavity

Detection of feed

R min. 30mm (12mm tape)
40mm (16mm tape)

Bending radius of tape

1mm Max.

100mm

250mm

Tape

Camber (Top View)

Allowable camber to be 1mm/100mm tape, non-cumulative
Maximum Component Movement in Tape Pocket

Component Lateral Movement

8mm & 12mm Tape
- 0.5mm maximum
- 0.5mm maximum

16-200mm Tape
- 1.0mm maximum
- 1.0mm maximum

Maximum Component Rotation

Top View
- Typical Pocket Centerline
- Tape Width (mm) | Maximum Rotation (°)
  - 8,12
  - 16-200

Side View
- Typical Component Centerline
- Tape Width (mm) | Maximum Rotation (°)
  - 8,12
  - 16-56
  - 72-200

Surface Mount Reel Specifications

<table>
<thead>
<tr>
<th>Tape Width</th>
<th>Reel Size</th>
<th>A (mm)</th>
<th>B Max (mm)</th>
<th>C (mm)</th>
<th>D Max (mm)</th>
<th>N Min (mm)</th>
<th>G (mm)</th>
<th>T Max (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>7&quot;</td>
<td>178 ±2</td>
<td>2.0 +0.5 -0</td>
<td>13 +0.5 -0.2</td>
<td>20.5 ±0.2</td>
<td>55 ±5</td>
<td>12.4 +2.0 -0.0</td>
<td>18.4</td>
</tr>
<tr>
<td></td>
<td>13&quot;</td>
<td>330 ±2</td>
<td>2.0 +0.5 -0</td>
<td>13 +0.5 -0.2</td>
<td>20.5 ±0.2</td>
<td>100 ±2</td>
<td>12.4 +2.0 -0.0</td>
<td>18.4</td>
</tr>
</tbody>
</table>

Tape Leader and Trailer Specifications

* Drive spokes optional. If used, dimensions with asterisks apply.

Note: There shall be a leader of at least 230mm which may consist of carrier tape and/or cover tape or a start tape followed by at least 160mm of empty carrier tape sealed with cover tape.

Note: There shall be a trailer of at least 160mm of empty carrier tape sealed with cover tape. The entire carrier tape must release from the reel hub as the last portion of the tape unwinds from the reel without damage to the carrier tape and the remaining components in the cavities.