1600C & 1630C
Quad Data-bus Isolators

SELECTION GUIDE

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Type</th>
<th>Function</th>
<th>Turns Ratio</th>
<th>Max. Pulse Width</th>
<th>Typ. Primary Inductance</th>
<th>Typ. Inerwinding Capacitance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600C</td>
<td>Quad isolator</td>
<td>5V to 5V logic isolation</td>
<td>1:1</td>
<td>5</td>
<td>3</td>
<td>60</td>
</tr>
<tr>
<td>1630C</td>
<td>Quad isolator</td>
<td>5V to 15V logic isolation</td>
<td>1:3</td>
<td>2.6</td>
<td>1</td>
<td>34</td>
</tr>
</tbody>
</table>

ABSOLUTE MAXIMUM RATINGS

- Operating free air temperature range: 0°C to 70°C
- Storage temperature range: -40°C to 125°C
- Isolation voltage (flash tested for 1 second): 500Vrms
- Insulation resistance at 500VDC: >10GΩ

SOLDERING INFORMATION

- Peak wave solder temperature, 1.5mm from case: 300°C for 10 seconds
- Pin finish: Matte tin

FEATURES

- RoHS compliant
- Logic translation
- Bi-Directional
- Invert / non-invert
- TTL-CMOS conversion
- Toroidal construction
- Low profile
- 500Vrms isolation
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 1600 series are quad isolation transformer packs for use in digital circuits. They are particularly suited to isolating microprocessor bus connections and performing logic level translation. Being completely passive, power savings are offered over opto-coupled or emitter follower solutions.

OPERATIONAL CONFIGURATIONS

Non-Inverted +VE Going Pulse

Non-Inverted -VE Going Pulse

Inverted +VE Going Pulse

Inverted -VE Going Pulse

For full details go to www.murata-ps.com/support
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Quad Data-bus Isolators

PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.50</td>
<td>(0.886)</td>
</tr>
<tr>
<td>6.86</td>
<td>(0.270)</td>
</tr>
<tr>
<td>5.80</td>
<td>(0.228)</td>
</tr>
<tr>
<td>4.50</td>
<td>(0.177)</td>
</tr>
<tr>
<td>2.54</td>
<td>(0.10)</td>
</tr>
<tr>
<td>17.78</td>
<td>(0.7)</td>
</tr>
<tr>
<td>0.50±0.05</td>
<td>(0.02±0.002)</td>
</tr>
<tr>
<td>0.64±0.15</td>
<td>(0.025±0.006)</td>
</tr>
<tr>
<td>0.26±0.05</td>
<td>(0.01±0.002)</td>
</tr>
<tr>
<td>8.85</td>
<td>(0.348)</td>
</tr>
</tbody>
</table>

All dimensions in mm (inches) ± 0.25 (0.001) unless otherwise stated.

Package weight: 1.7g Typ.
Package quantity: 20

PIN CONNECTIONS

Murata Power Solutions, Inc.
11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
ISO 9001 and 14001 REGISTERED

www.murata-ps.com/support