Low Profile SMT Strip Connectors
.039/(1.00mm) Pitch • For Cable to Board or Board to Board Applications

Table of Models

<table>
<thead>
<tr>
<th>Female</th>
<th>Description: Molded SMT Socket (DHS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Material: High Temp. Liquid Crystal Polymer (LCP)</td>
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<td>Index: -40°C to 260°C (-40°F to 500°F)</td>
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<tr>
<th>Male</th>
<th>Description: Molded SMT Header (DHAM)</th>
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<td>Material: High Temp. Liquid Crystal Polymer (LCP)</td>
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<tr>
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<th>Description: Flexible Thru-hole Header (DHA)</th>
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<td></td>
<td>Material: Polyimide Film</td>
</tr>
<tr>
<td></td>
<td>Index: -269°C to 400°C (-452°F to 752°F)</td>
</tr>
</tbody>
</table>

How To Order

Female

- **Body Type**
  - DHS - Molded SMT

- **Row Count**
  - 2-Dual Row

- **Total Number of Pins**
  - Consult factory or web site.

- **Terminal Type**
  - Consult factory or web site.

- **Lead Frame Plating**
  - RoHS Compliant: M - Matte Tin

- **Contact Plating**
  - RoHS Compliant: G - Gold

- **Terminal Plating**
  - RoHS Compliant: G - Gold

Male

- **Body Type**
  - DHAM - Molded SMT
  - DHA - Flexible Thru-hole

- **Row Count**
  - 2-Dual Row

- **Total Number of Pins**
  - Consult factory or web site.

- **Terminal Type**
  - 846 (DHAM)
  - 845 (DHA)

- **Lead Frame Plating**
  - (DHAM only)
  - RoHS Compliant: M - Matte Tin

- **Terminal Plating**
  - RoHS Compliant: G - Gold
  - GH - Heavy Gold

Packaging: DHS is supplied in tape and reel packaging.

Packaging: DHAM is supplied with pick-and-place cover in tape and reel packaging.

DHA is supplied in standard trays. (Trays are not suitable for automated pick-and-place processes).

Features:
- Low profile connector system for 1.00mm pitch cable to board or board to board applications - only .100/(2.54mm) tall on female (socket) side.
- Robust design features screw-machined terminals and multi-finger contacts rated at 3 amps.
- Fits within existing board layouts.
- Over-molded lead frame seals surface mount pins to prevent solder wicking.
- SMT and thru-hole designs available.
- Passed 20-Day MFG test.

Specifications:
- **Terminals:**
  - Brass - Copper Alloy (C36000) ASTM-B-16

- **Contacts:**
  - Beryllium Copper (C17200) ASTM-B-194

- **Lead Frame:**
  - Beryllium Copper (CA 172)

- **Plating:**
  - G - Gold over Nickel
  - GH - Heavy Gold over Nickel
  - M - Matte Tin over Nickel
  - Gold per ASTM-B-488
  - Matte Tin per ASTM545-97
  - Nickel per QQ-N-290

Products shown covered by patents issued and/or pending. Specifications subject to change without notice.
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How It Works

Thru-hole Flex Cable Application
1. The male terminals are supplied in a polyimide film carrier to facilitate handling.
2. A stiffener with a recommended thickness of .020 inches should be used between the terminal pins and the flex circuit. (Stiffener not supplied)
3. The recommended maximum hole in the stiffener is .018 diameter.
4. The flex circuit should have a minimum diameter plated through hole of .016. Standard practices for flex circuit thru-hole and annular rings should apply.
5. An FR-4 cover can be used to protect the top solder joints if required. (not supplied)

SMT Board to Board Application
1. In an SMT application, the SMT socket (DHS) or either header (DHA, DHAM) can be used on PC boards, rigid flex or flex circuits.
2. SMT pad size should meet IPC standards for surface mount components.
3. See lead dimension and foot size on applicable CAD drawing for reference.
4. Tape and reel packaging is provided for SMT assembly.

Dimensional Information

Typical Applications
• Tunable Laser power connector (flex cable to board)
• Tunable Laser connector (board to board)
• Signal connector (flex cable to board)
• Low profile board to board connector

Test Data:
High Reliability Contact System Passes:
• Passes 20-Day Mixed Flowing Gas (MFG)
• Thermal cycle: 100 cycles 125ºC to -40ºC.

Available Online:
• Additional test data and reports
• CAD Drawings

Part Number   A (inch)   B (inch)   Number of Pins   Row Config
DHA208-845G  .197(5.00) .118(3.00)     8           2 x 4
DHA214-845G  .315(8.00) .236(6.00)    14          2 x 7
DHAM208-846G-M .171(4.36) .118(3.00)     8           2 x 4
DHAM214-846G-M .290(7.36) .236(6.00)    14          2 x 7
DHS208-844GG-M .171(4.36) .118(3.00)     8           2 x 4
DHS214-844GG-M .290(7.36) .236(6.00)    14          2 x 7

Note: Pin to pin spacing is .039/(1.00). Lead frame width is .010/(.25).