Pin Header, Standard Profile, Bottom Board Surface-Mount (Continued)

**Pin Length**

<table>
<thead>
<tr>
<th>Pin Length (L)</th>
<th>Pin Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>1, 17, 34, 36, 51, 68</td>
</tr>
<tr>
<td>4.25</td>
<td>All Others</td>
</tr>
<tr>
<td>1.67</td>
<td>Not Listed</td>
</tr>
<tr>
<td>3.50</td>
<td>36, 67</td>
</tr>
</tbody>
</table>

**Material and Finish:**

- **Housing** — Liquid crystal polymer, black
- **Contacts** — Copper alloy, duplex plated 0.00076 [0.00030] minimum gold on mating area, 0.00061 [0.00024] minimum tin-lead on solder tail, with entire contact underplated 0.00127 [0.00050] minimum nickel

**Related Product Data:**

- **Mating Receptacle Assemblies** — page 14
- **Guide Rails** — page 27
- **Ejectors** — pages 28 & 29
- **Performance Data** — page 92
- **Technical Documents** — page 92
Introduction

AMP offers a versatile family of connectors that accept Type I, II and III PC cards. These connectors are compatible with PCMCIA (Personal Computer Memory Card International Association), Release 2.01 and JEIDA (Japan Electronics Industry Development Association), Release 4.1 standards.

Receptacle Assemblies
69-position receptacle assemblies attach to a PC card and feature high-temperature, reflow process compatibility for surface or straddle mounting. The receptacle contacts are designed with dual contact beams for reliable electrical performance. These receptacles find wide application in memory cards (SRAM, DRAM, Flash), PC Cards, Modem and Lan I/O kits and Imaging Systems. This assembly is also available in an 88-position, straddle mount, centered configuration.

Pin Headers
68-position right-angle pin headers, available in standard, raised and stacked profiles, provide attachment to the host equipment and feature three levels of sequencing. Both standard and raised profile pin headers offer through-hole and surface-mount lead configurations for top or bottom mounting. Stacked standard and stacked raised profile pin headers permit 136 circuit connections with through-hole lead configurations for top mounting. An organizer on the 68- and 136-position headers and 4-sided post lead-in aid in the placement of the headers on the PC board. The true position of the leads is held to 0.30 [.012]. This allows a small hole size, 0.84 [.033], to be used in the PC pattern, which gives the designer flexibility in routing signal paths. This pin header is also available in a vertical, top-board surface mount, as well as an 88-position right-angle standard profile, bottom board surface-mount. Guide rails and card guides facilitate the insertion and removal of the PC cards. Pin headers find wide use in such equipment as: computer, office, photographic, communications, industrial, test and medical, and pay TV/satellite.

Ejectors
Ejectors facilitate the insertion and extraction of PC cards. They provide ESD/EMI protection and are available with eject buttons on either side. Ejectors are furnished to accommodate standard, raised and stacked profile pin headers and may be purchased separately, or assembled to the pin headers. They are designed to be easily added to the pin headers after PC board processing.

CardBus
Enhanced (shielded) pin headers and receptacle assemblies are available for 32-bit PC card applications.
Performance Data

Voltage Rating: 100VAC
Current Rating (per position): 0.5A max.
Low-Level Overall Resistance (per position, max.): 40mΩ (initial), ΔR≤20mΩ (final)
Withstanding Voltage: 500VAC min. (for 1 minute)
Insulation Resistance (min.): 1,000MΩ (initial), 100MΩ (final)
Connector Mating/Unmating Force (per 68-position connector): Mating Force=4.0kg max.,
Unmating Force=0.68kg min.

Matings and Unmatings: Tested to 10,000
Post Retention Force (min.): 1.0kg (for 0.44mm [.017 inch] dia. pin)
Receptacle Retention Force (per position): 0.5kg min.
Operating Temperature: –10°C to +70°C

Technical Documents

Various technical documents are available for your use.

Product Specifications describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-1459    Series II PC Card Connectors, Shielded
108-1460    Series I Connector, CHAMP, I/O PC Card, PC Board Header to Cable

Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging and Design Engineer and the Setup person.

114-6055    Series II 0.8mm Cable Connector and PC Board Header
114-6056    Series I Cable Connector, CHAMP, I/O PC Card and PC Board Header
114-6058    Series III Connectors
This datasheet has been downloaded from:

www.DatasheetCatalog.com

Datasheets for electronic components.