Connectors for PCMCIA ExpressCard Technology

DESCRIPTION
PCMCIA ExpressCard technology is the next generation for the PC Card standard. The 26 pin host and module connectors offer a smaller form factor than existing PC Card technology. The same connectors support both 34mm and 54mm cards. Each ExpressCard slot supports both USB 2.0 and PCI Express (x1) standards.

KEY FEATURES
• Leverages PC card technology
  • Reliability and durability
  • Hot plug and play auto-configuration
• Supports USB 2.0 and PCI Express standards

APPLICATIONS
• Broadband Modems, Wire and Wireless LAN
• TV Tuners/Decoders
• I/O Adapters
• Magnetic Disk Drives
• Flash Memory Card Adapters
• Security
• Optical Disk Drives
• GPS Receivers

ExpressCard is a trademark of Personal Computer Memory Card International Association.
PCI Express is a trademark of PIC-SIG Corporation.

FOR MORE INFORMATION
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Two ExpressCard Sizes Available:

ExpressCard/34: 34mm (W) X 75mm (L) X 5mm (H)

ExpressCard/54: 54 mm (W) X 75mm (L) X 5mm (H)

Existing CardBus (Type II): 54mm (W) X 86mm (L) X 5mm (H)
### Connectors for PCMCIA ExpressCard Technology

#### PART NUMBER DESCRIPTION

**Host Connector and Ejector Push/ Push Type**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Mounting</th>
<th>Stand off</th>
<th>Shutter</th>
<th>Remark</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Header</td>
<td>1759011-1</td>
<td>Top Mount</td>
<td>0</td>
<td>w/o</td>
<td>With nut on ejector</td>
<td>4</td>
</tr>
<tr>
<td>Ejector 34/54</td>
<td>1759010-1</td>
<td>Top Mount</td>
<td>0</td>
<td>With</td>
<td>Ejector 34/54</td>
<td>4</td>
</tr>
<tr>
<td>Header</td>
<td>1759044-1</td>
<td>Top Mount</td>
<td>2.2</td>
<td>With</td>
<td>With nut on ejector</td>
<td>5</td>
</tr>
<tr>
<td>Ejector 34/54</td>
<td>1759056-1</td>
<td>Bottom Mount</td>
<td>0.6</td>
<td>With</td>
<td>With nut on ejector</td>
<td>5</td>
</tr>
</tbody>
</table>

**Host Connector and Ejector Button Type**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Mounting</th>
<th>Stand off</th>
<th>Shutter</th>
<th>Button</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Header</td>
<td>1759071-1</td>
<td>Bottom Mount</td>
<td>2.0</td>
<td>w/o</td>
<td>Right push-push</td>
<td>6</td>
</tr>
<tr>
<td>Ejector 34/54</td>
<td>1759074-1</td>
<td>Bottom Mount</td>
<td>2.0</td>
<td>w/o</td>
<td>Right push-push</td>
<td>6</td>
</tr>
</tbody>
</table>

**Frame Kit**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Connector</td>
<td>1470828-1</td>
<td>6</td>
</tr>
<tr>
<td>Body (34mm)</td>
<td>1470827-1</td>
<td>6</td>
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</table>

**Combo Host Connector Type (ExpressCard with PCMCIA)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Mounting</th>
<th>Stand off</th>
<th>Shutter</th>
<th>Button</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combo Set</td>
<td>1759323-1</td>
<td>Top mount</td>
<td>2.05mm</td>
<td>With/no function</td>
<td>Right push</td>
<td>7</td>
</tr>
<tr>
<td>Card Edge</td>
<td>6376045-1</td>
<td>Bottom mount</td>
<td>2.05 mm</td>
<td>With/no function</td>
<td>Right push</td>
<td>7</td>
</tr>
<tr>
<td>Combo Set</td>
<td>1827070-1</td>
<td>Bottom mount</td>
<td>1.95 mm</td>
<td>Without</td>
<td>Left push</td>
<td>8</td>
</tr>
<tr>
<td>Card Edge</td>
<td>6376045-1</td>
<td>Bottom mount</td>
<td>1.95 mm</td>
<td>Without</td>
<td>Left push</td>
<td>8</td>
</tr>
</tbody>
</table>

All part numbers are RoHS compliant

ExpressCard is a trademark of Personal Computer Memory Card International Association.
Connectors for PCMCIA
ExpressCard Technology

PRODUCT DIMENSIONS

Single Slot Card Push/ Push Type

Header: P/N 1759011-1

Ejector: P/N 1759010-1

Header: P/N 1759044-1

Ejector: P/N 1759066-1

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PRODUCT DIMENSIONS

Single Slot Card Push/ Push Type
Header: P/N 1759056-1

Ejector: P/N 1759054-1

Header: P/N 1759101-1

Ejector: P/N 1759100-1

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PRODUCT DIMENSIONS

Button Push/ Push Type

Header: P/N 1759071-1

Ejector: P/N 1759074-1

Frame Kit

Module Connector: P/N 1470828-1

Frame Kit: P/N 1470827-1

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PRODUCT DIMENSIONS

Combo Type (ExpressCard with PCMCIA)

Combo Set: P/N 1759323-1
Card Edge: P/N 6376045-1

Combo Set: P/N 1759322-1
Card Edge: P/N 6376045-1

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PRODUCT DIMENSIONS

Combo Set: P/N 1827070-1

Card Edge: P/N 6376045-1

TYPICAL ELECTRICAL PROPERTIES

Operating Temperature: -55°C to +85°C
Contact Resistance: 40mΩ Max initial

Current Rating: 0.75A

ENVIRONMENTAL and PHYSICAL PARAMETERS

Physical Shock: 50 G’s, 11mS
Mating Force: 39N (3.9kgf) Maximum
UnMating Force: 4.5N (0.46kgf) Minimum
Durability: 5,000 to 10,000 cycles

TECHNICAL DOCUMENTS

• Engineering Test Report – 108-5923
• Qualification Test Report – 501-5222

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RoHS 2002/95/EC as amended 1 January 2006 restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

For purposes of this Datasheet, included within the definition of RoHS Compliant are products that are clearly “Out of Scope” of the RoHS Directive such as hand tools and other non-electrical accessories.

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“5 of 6 Compliant” – A “◊◊◊◊” symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

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The Support Center also provides:

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- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data
- Customer Information Presentation
- More detailed information regarding the definitions used above

So whatever your questions when it comes to RoHS, we’ve got the answers at www.tycoelectronics.com/leadfree.