

(1.00 mm) .0394"

PCIE-098-02-F-D-EMS2

PCIE-064-02-F-D-RA

PCIE-036-02-F-D-TH

PCIE SERIES

# PCI EXPRESS® CARD SOCKETS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?PCIE](http://www.samtec.com?PCIE)

### Insulator Material:

-TH=Black Nylon  
-EMS2 & -RA=LCP

### Contact:

Phosphor Bronze

### Plating:

Au or Sn over 50 μm (1.27 μm) Ni

### Current Rating:

2.2 A per pin (2 adjacent pins powered)

### Operating Temp:

-55 °C to +125 °C

### Card Insertion Depth:

(7.65 mm) .301" nominal

### RoHS Compliant:

Yes

### Lead-Free Solderable:

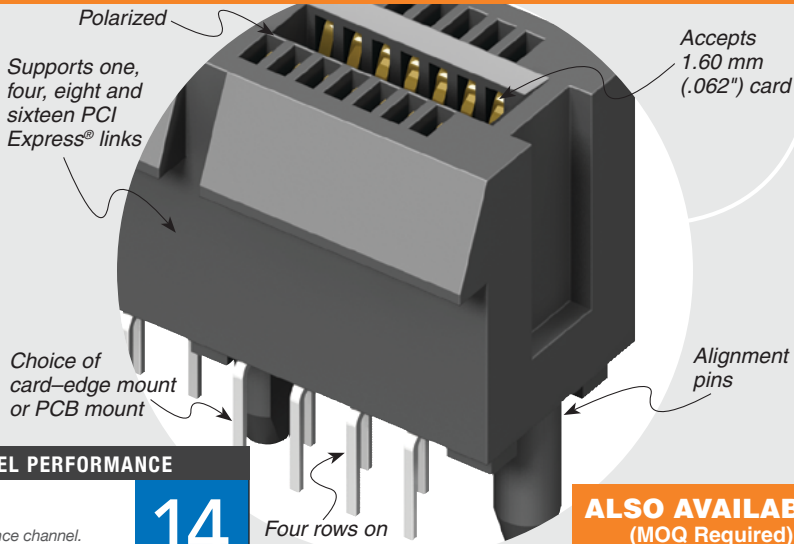
-RA & -EMS2=Yes

-TH=Wave only

**Card Mates:**  
(1.60 mm) .062" card

**Cable Mates:**  
PCIEC

**Note:**  
While optimized for 50 Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75 Ω applications.



## HIGH-SPEED CHANNEL PERFORMANCE

PCIE

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

14  
Gbps

**ALSO AVAILABLE**  
(MOQ Required)

• Other platings

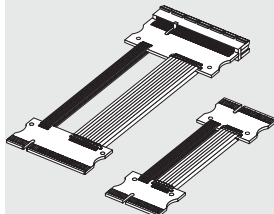
## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## OTHER SOLUTIONS

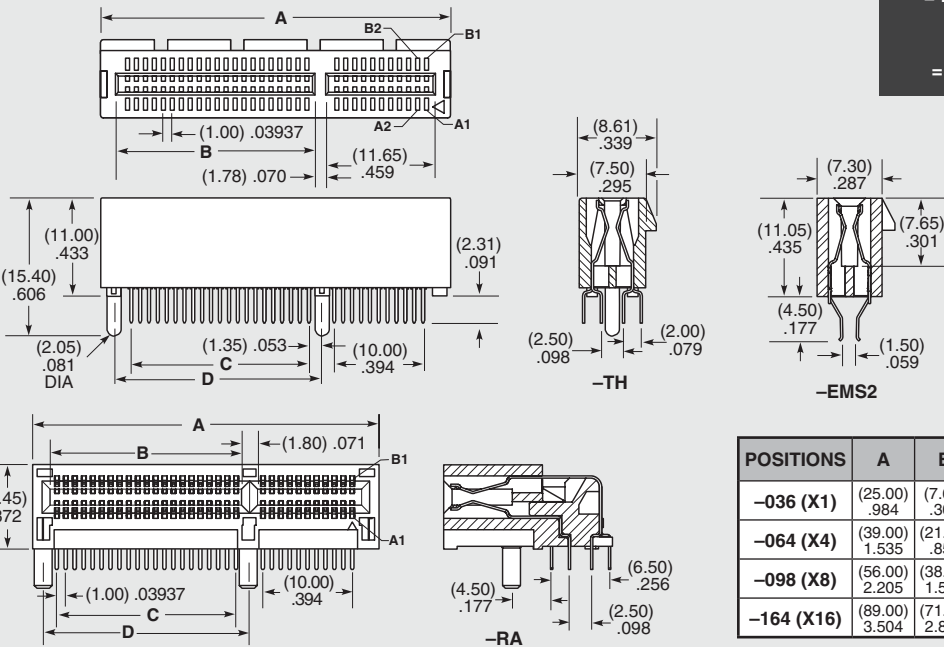
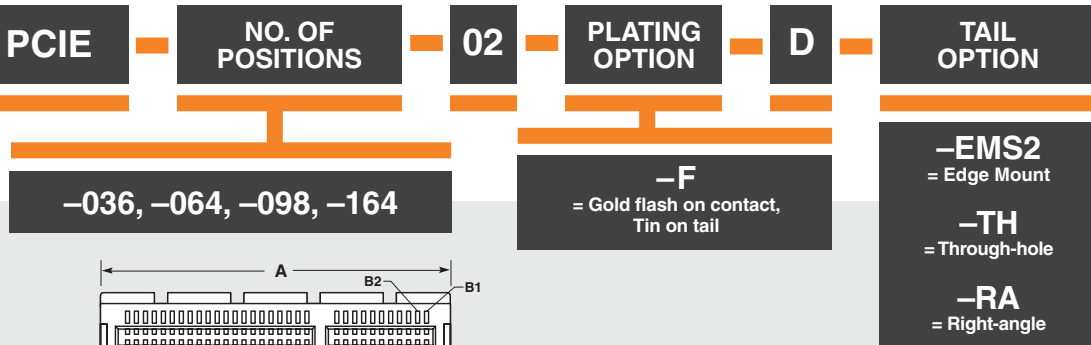
PCI Express® Jumpers & Extenders call for PCIEC Series



- Loop back Extender (From one PCIe® slot to another PCIe® slot)
- Ser-Des Physical Extender (From one PCIe® slot to another PCIe® Ser-Des)
- Physical Extender for easy troubleshooting of PCIe® card debug and analysis (PCIe® slot to Emulator or Analyzer)

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**Note:**  
Some lengths, styles and options are non-standard, non-returnable.



| POSITIONS  | A                | B                | C                | D                |
|------------|------------------|------------------|------------------|------------------|
| -036 (X1)  | (25.00)<br>.984  | (7.65)<br>.301   | (6.00)<br>.236   | (9.15)<br>.360   |
| -064 (X4)  | (39.00)<br>1.535 | (21.65)<br>.852  | (20.00)<br>.787  | (23.15)<br>.911  |
| -098 (X8)  | (56.00)<br>2.205 | (38.65)<br>1.522 | (37.00)<br>1.457 | (40.15)<br>1.581 |
| -164 (X16) | (89.00)<br>3.504 | (71.65)<br>2.821 | (70.00)<br>2.756 | (73.15)<br>2.880 |

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.  
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.