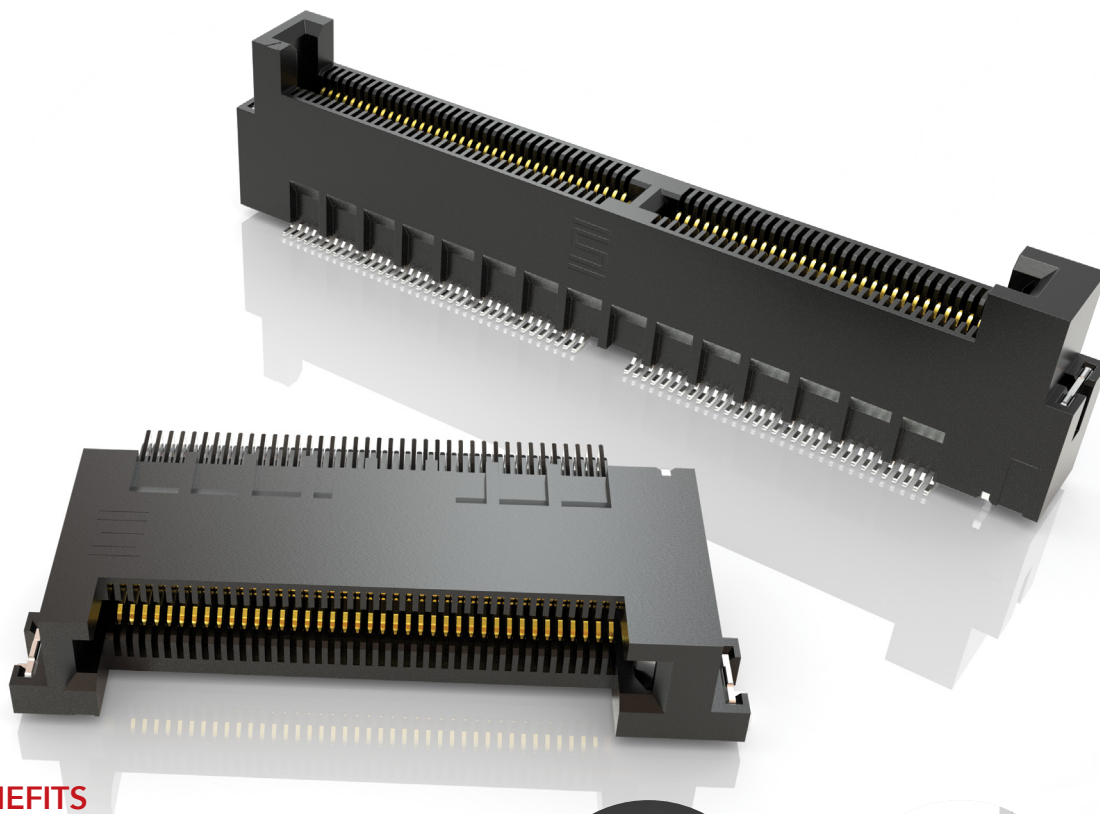


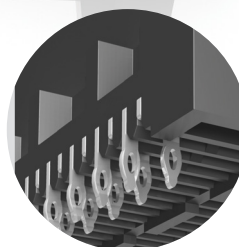
# MICRO EDGE CARD SYSTEMS

0.50 mm, 0.635 mm, 0.80 mm, 1.00 mm, 1.27 mm, 2.00 mm PITCH

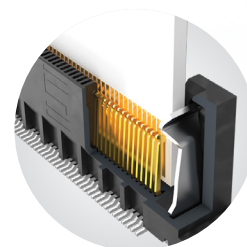


## FEATURES & BENEFITS

- Up to 56 Gbps PAM4
- PCI Express® 4.0 (MEC5 Series)
- Solutions for (1.60 mm) .062" and (2.36 mm) .093" thick cards
- Choice of pitch: 0.50 mm, 0.635 mm, 0.80 mm, 1.00 mm, 1.27 mm, 2.00 mm
- Vertical, right-angle and edge mount orientations
- Available in surface mount and through-hole



Staggered press-fit tails  
(MEC8-VP)



Justification beam ensures  
card and body are flush  
(MEC5)

## KEY SPECIFICATIONS

| SERIES | PITCH    | TOTAL POSITIONS | INSULATOR MATERIAL | CONTACT MATERIAL | OPERATING TEMP RANGE | CURRENT RATING | VOLTAGE RATING  | LEAD-FREE SOLDERABLE |
|--------|----------|-----------------|--------------------|------------------|----------------------|----------------|-----------------|----------------------|
| MEC5   | 0.50 mm  | 60-200          | Black LCP          | Phosphor Bronze  | -55 °C to +125 °C    | 1.5 A (2 pins) | 125 VAC/177 VDC | Yes                  |
| MEC6   | 0.635 mm | 20-140          | Black LCP          | Phosphor Bronze  | -55 °C to +125 °C    | 2.4 A (2 pins) | 185 VAC/262 VDC | Yes                  |
| MEC8   | 0.80 mm  | 20-140          | Black LCP          | Phosphor Bronze  | -55 °C to +125 °C    | 2.3 A (2 pins) | 180 VAC/255 VDC | Yes                  |
| MEC1   | 1.00 mm  | 20-140          | Black LCP          | BeCu             | -55 °C to +125 °C    | 2.2 A (2 pins) | 250 VAC/354 VDC | Yes                  |
| MECF   | 1.27 mm  | 10-100          | Black/Natural LCP  | BeCu             | -55 °C to +125 °C    | 3.5 A (2 pins) | 280 VAC/396 VDC | Yes                  |
| MEC2   | 2.00 mm  | 10-100          | Black/Natural LCP  | BeCu             | -55 °C to +125 °C    | 3.5 A (2 pins) | 280 VAC/396 VDC | Yes                  |

PCI-SIG®, PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

# (0.80 mm) .0315" PITCH • VERTICAL AND PRESS-FIT EDGE CARD SOCKET

|      |   |   |                   |   |    |                |   |    |               |   |      |
|------|---|---|-------------------|---|----|----------------|---|----|---------------|---|------|
| MEC8 | - | 1 | POSITIONS PER ROW | - | 02 | PLATING OPTION | - | DV | OTHER OPTIONS | - | "X"R |
|------|---|---|-------------------|---|----|----------------|---|----|---------------|---|------|

10, 20, 30, 40,  
50, 60, 70

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

**-A**  
= Alignment Pin

**-K**  
= (5.50 mm) 2.17" DIA  
Polyimide Pick  
& Place Pad

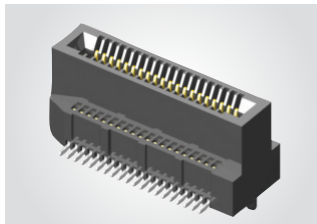
Leave blank for  
Tray Packaging

**-TR**  
= Tape & Reel

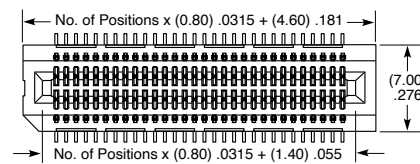
**-FR**  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec for  
quantity breaks)

## MEC8-DV

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

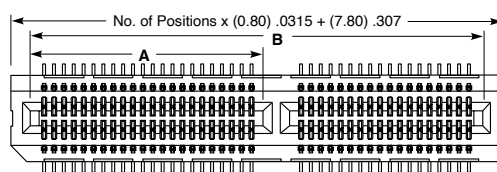


| POSITIONS PER ROW | A                | B                |
|-------------------|------------------|------------------|
| 40                | (18.90)<br>.744  | (36.60)<br>1.441 |
| 50                | (22.90)<br>.902  | (44.60)<br>1.756 |
| 60                | (26.90)<br>1.059 | (52.60)<br>2.071 |
| 70                | (30.90)<br>1.217 | (60.60)<br>2.386 |

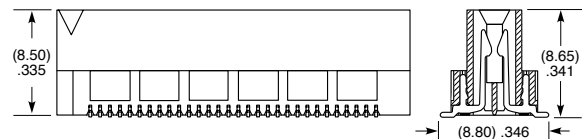


**25**  
G b p s

10, 20, & 30 POSITIONS



40, 50, 60 & 70 POSITIONS



View complete specifications at: [samtec.com?MEC8-DV](http://samtec.com?MEC8-DV)

|      |   |   |                   |   |                |   |                |   |      |
|------|---|---|-------------------|---|----------------|---|----------------|---|------|
| MEC8 | - | 1 | POSITIONS PER ROW | - | CARD THICKNESS | - | PLATING OPTION | - | TAIL |
|------|---|---|-------------------|---|----------------|---|----------------|---|------|

10, 20, 30, 40

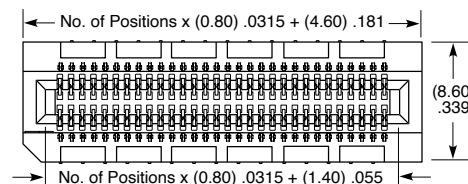
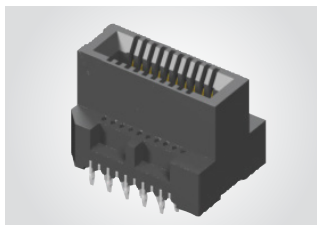
**-02**  
= (1.60 mm) .062"  
thick card

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m) Gold on contact,  
Matte Tin on tail

**-VP**  
= Press-fit

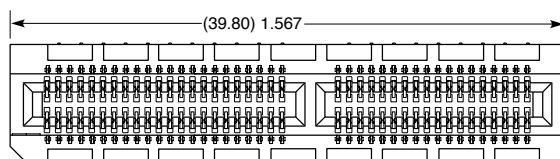
## MEC8-VP

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

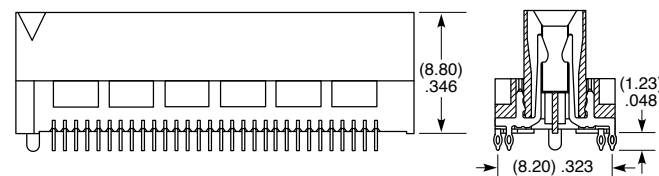


10, 20 & 30 POSITIONS

**14**  
G b p s



40 POSITIONS



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

View complete specifications at: [samtec.com?MEC8-VP](http://samtec.com?MEC8-VP)