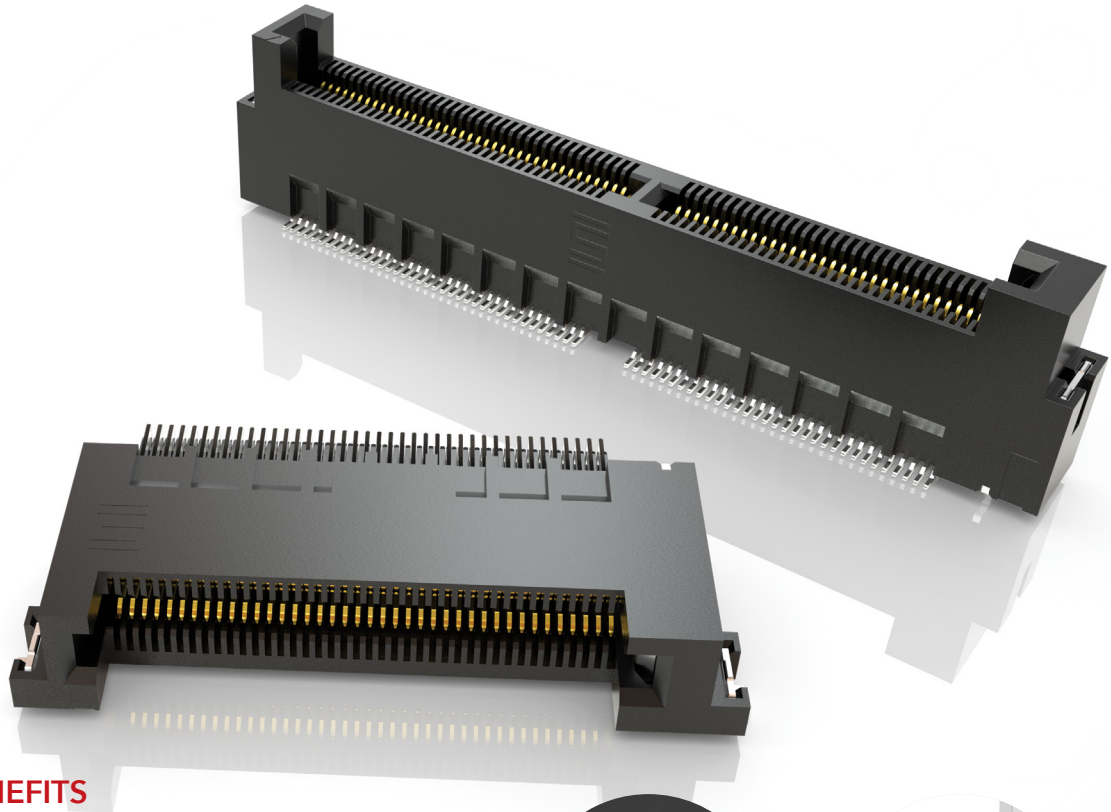


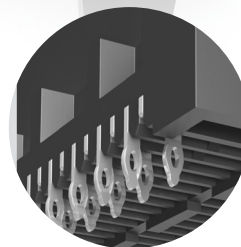
# MICRO EDGE CARD SYSTEMS

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

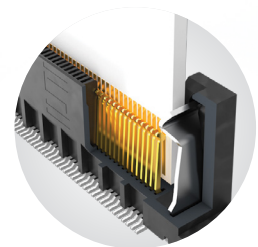


## FEATURES & BENEFITS

- 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                  |

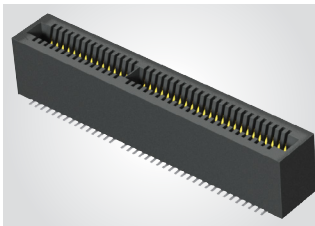
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(1.00 mm) .0394" PITCH • MINI EDGE CARD SOCKET

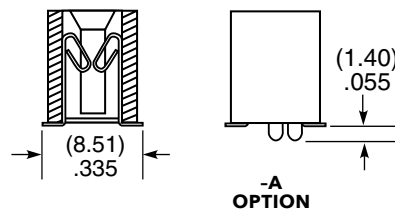
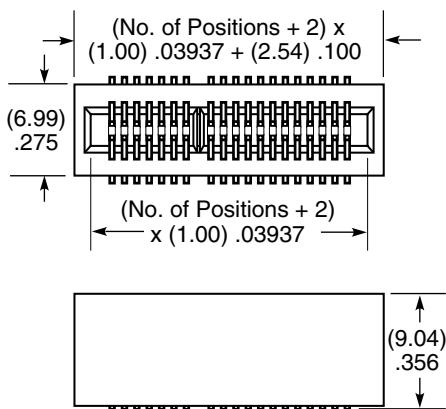
| MEC1 | 1 | POSITIONS PER ROW                        | 02 | PLATING OPTION                                                                                                                            | D | NP                                                                                                      | OTHER OPTIONS                                                                                                                                | "X"R                                                                                                                                                                                                             |
|------|---|------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |   | 05, 08, 10,<br>20, 30, 40,<br>50, 60, 70 |    | <b>-F</b><br>= Gold flash on contact,<br>Matte Tin on tail<br><br><b>-L</b><br>= 10 μ" (0.25 μm)<br>Gold on contact,<br>Matte Tin on tail |   | Leave blank for polarization<br><br><b>-NP</b><br>= No Polarization<br>(05, 08, 20 & 30 positions only) | <b>-A</b><br>= Alignment Pin metal or plastic at Samtec discretion<br><br><b>-K</b><br>= (7.87 mm) .310" DIA Polyimide film Pick & Place Pad | Leave blank for Tube Packaging<br><br><b>-TR</b><br>= Tape & Reel (05-60 only)<br><br><b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (05-60 only) |

## MEC1

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



| POSITIONS PER ROW | POLARIZED POSITIONS (No Contact) |
|-------------------|----------------------------------|
| 05                | 3, 4                             |
| 08                | 5, 6                             |
| 10                | 13, 14,                          |
| 20                | 15, 16,                          |
| 30                | 21, 22                           |
| 40                | 31, 32                           |
| 50                | 41, 42                           |
| 60                | 31, 32, 63 & 64                  |
| 70                | 53, 54, 115 & 116                |



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

View complete specifications at: [samtec.com?MEC1](http://samtec.com?MEC1)