

HIGH-SPEED EDGE CARD SYSTEMS

0.60 mm, 0.80 mm and 1.00 mm PITCH



FEATURES & BENEFITS

- 56 Gbps PAM4 performance
- PCI Express® 3.0, 4.0 and 5.0
- Edge Rate® contacts optimized for signal integrity performance and cycle life
- Up to 200 positions available
- Vertical, right-angle, edge mount, pass-through orientations
- Power/signal combo, press-fit tails, rugged weld tabs, locks and latches
- Mating cable assemblies available



Rugged tucked beam technology (HTEC8)



Differential pair for increased speed (HSEC8-DP)



Custom designs allow for misalignment in the X-Y axes (HSEC1)

KEY SPECIFICATIONS

| SERIES | PITCH | TOTAL POSITIONS | INSULATOR MATERIAL | CONTACT MATERIAL | OPERATING TEMP RANGE | CURRENT RATING | VOLTAGE RATING | LEAD-FREE SOLDERABLE |
|--------|---------|-----------------|--------------------|------------------|----------------------|-----------------|----------------|----------------------|
| HSEC6 | 0.60 mm | 56-168 | Black LCP | Copper Alloy | -55 °C to +125 °C | 0.8 A (12 pins) | 300 VAC | Yes |
| HTEC8 | 0.80 mm | 40-200 | Black LCP | Copper Alloy | -55 °C to +125 °C | 3.0 A (2 pins) | 215 VAC | Yes |
| HSEC8 | 0.80 mm | 18-200 | Black LCP | BeCu | -55 °C to +125 °C | 2.8 A (2 pins) | 240 VAC | Yes |
| HSEC1 | 1.00 mm | 20-140 | Black LCP | Phosphor Bronze | -55 °C to +125 °C | 2.2 A (2 pins) | 215 VAC | Yes |

(0.80 mm) .0315" PITCH • RIGHT-ANGLE & EDGE MOUNT SOCKET

| | | | | | | | |
|--------------|----------|--------------------------|-----------------------|-----------------------|-----------|----------------------|-------------|
| HSEC8 | 1 | POSITIONS PER ROW | CARD THICKNESS | PLATING OPTION | RA | OTHER OPTIONS | "X"R |
|--------------|----------|--------------------------|-----------------------|-----------------------|-----------|----------------------|-------------|

09, 10, 13, 20,
25, 30, 40, 49,
50, 60

-01
= (1.60 mm) .062"
thick card

-L
= 10 μ" (0.25 μm)
Gold on contact area,
Matte Tin on tail

-S
= 30 μ" (0.76 μm)
Gold on contact area,
Matte Tin on tail

-BL
= Board Locks (09, 13,
25, 40, 49, 50, 60 only)

-L2
= ECDP Latching
(09, 13, 25, 49 only)

Leave blank for
Tray Packaging

-TR
= Tape & Reel

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

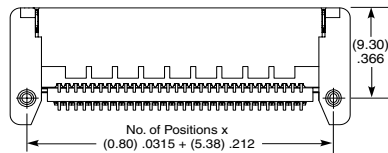
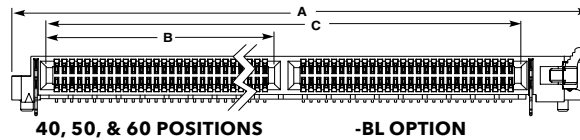
HSEC8-RA

Card Mates:
(1.60 mm) .062"
thick card,
HSC8

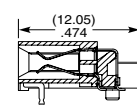
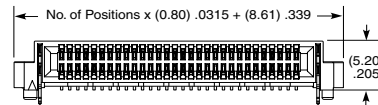
Cable Mates:
ECDP



| POSITIONS PER ROW | A | B | C |
|-------------------|---------------|---------------|---------------|
| 40 | (43.80) 1.724 | (18.90) .744 | (36.60) 1.441 |
| 50 | (51.80) 2.039 | (22.90) .902 | (44.60) 1.756 |
| 60 | (59.80) 2.354 | (26.90) 1.059 | (52.60) 2.071 |
| 40-BL | (51.30) 2.020 | (18.90) .744 | (36.60) 1.441 |
| 50-BL | (59.30) 2.335 | (22.90) .902 | (44.60) 1.756 |
| 60-BL | (67.30) 2.650 | (26.90) 1.059 | (52.60) 2.071 |



10, 20 & 30 POSITIONS



View complete specifications at: samtec.com?HSEC8-RA

| | | | | | | |
|--------------|----------|--------------------------|-----------|-----------------------|----------|------------|
| HSEC8 | 1 | POSITIONS PER ROW | 01 | PLATING OPTION | D | EM2 |
|--------------|----------|--------------------------|-----------|-----------------------|----------|------------|

10, 20, 30, 40,
50, 60

-L
= 10 μ" (0.25 μm)
Gold on contact area,
Matte Tin on tail

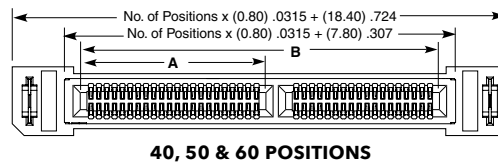
-S
= 30 μ" (0.76 μm)
Gold on contact area,
Matte Tin on tail

-EM2
=(1.60 mm) .062"
thick PCB

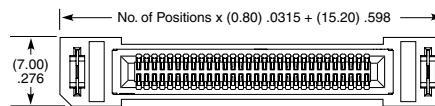
HSEC8-EM

Card Mates:
(1.60 mm) .062"
thick card,
HSC8

Cable Mates:
ECDP

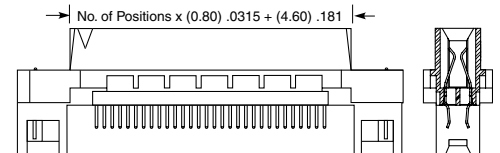


40, 50 & 60 POSITIONS



10, 20 & 30 POSITIONS

| POSITIONS PER ROW | A | B |
|-------------------|---------------|---------------|
| 40 | (18.90) .744 | (36.60) 1.441 |
| 50 | (22.90) .902 | (44.60) 1.756 |
| 60 | (26.90) 1.059 | (52.60) 2.071 |



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

View complete specifications at: samtec.com?HSEC8-EM

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[HSEC8-150-01-L-RA-TR](#)