

# 0,80mm HI-SPEED SOCKET HSEC8 SERIES

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?HSEC8](http://www.samtec.com?HSEC8)

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact:**  
BeCu  
**Plating:**  
Au or Sn over 50µ" (1,27µm) Ni  
**Current Rating:**  
3.1A @ 30°C Temperature Rise  
**Operating Temp:**  
-55°C to +125°C  
**Card Insertion Depth:**  
(3,15mm) .125" nominal  
**RoHS Compliant:**  
Yes



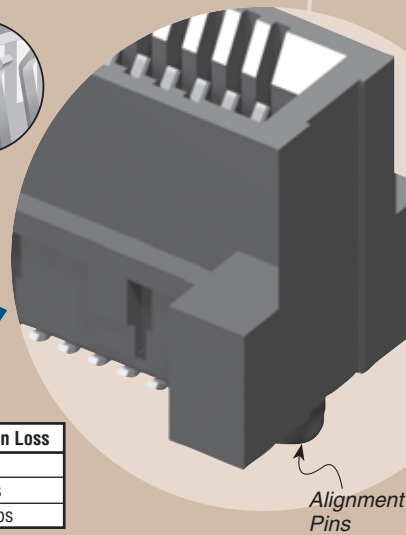
## Processing:

**Max Processing Temp:**  
230°C for 60 seconds, or  
260°C for 20 seconds 3x  
**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0,10mm) .004" max (10-60)

Mates with:  
1,6mm thick cards,  
EEDP, HSC8, HSF8

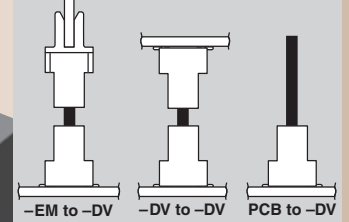


0,80mm HSEC8	Rated @ -3dB Insertion Loss
7,98mm Stack Height	
Single-Ended Signaling	8 GHz / 16 Gbps
Differential Pair Signaling	10.5 GHz / 21 Gbps

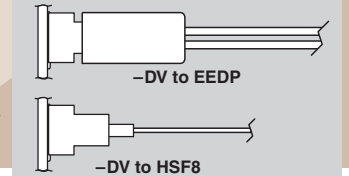


Alignment Pins

## BOARD-TO-BOARD APPLICATIONS

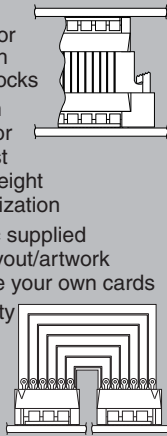


## HIGH SPEED CABLE & FLEX APPLICATIONS



## STANDARD & CUSTOM CARDS AVAILABLE

- Standard high speed interface cards for 19mm, 25mm & 30mm mated heights, single-ended & differential applications. See HSC8 Series.
- Cards for use with board locks
- Custom cards for low-cost stack height customization
- Samtec supplied card layout/artwork to make your own cards
- Specialty card shapes



HSEC8 - 1 POSITIONS PER ROW - CARD THICKNESS - PLATING OPTION - DV - A - OTHER OPTION

10, 13, 20, 25, 30, 37, 40, 49, 50, 60

-01 = (1,60mm) .062" thick card

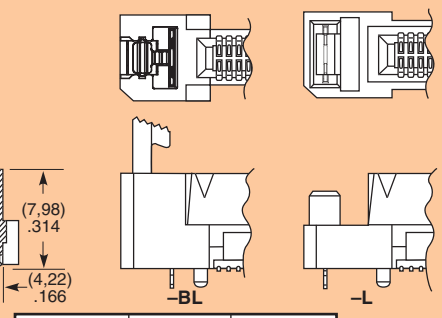
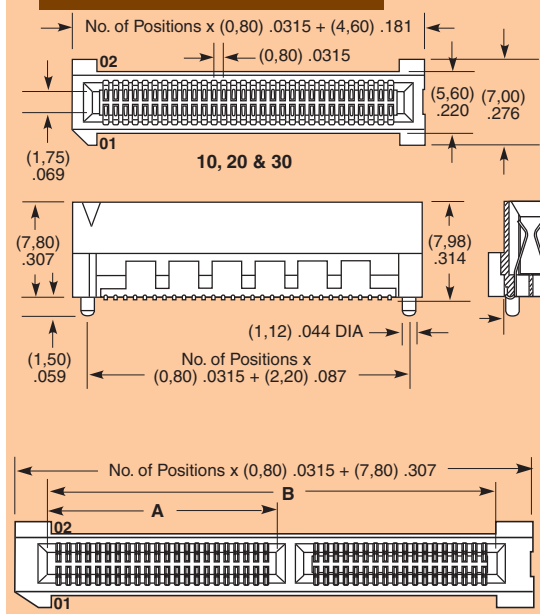
-S = 30µ" (0,76µm) Gold on contact, Matte Tin on tail

-K = (5,50mm) .217" DIA Polyimide Film Pick & Place Pad

-TR = Tape & Reel Packaging

-L = Latching Option (For use with EEDP.) (13, 25, 37, 49 only)

-BL = Board Locks (40, 50, 60 only)



POSITIONS PER ROW	A	B
13*	(6,10) .240	(15,00) .591
25*	(6,10) .240	(24,60) .969
37*	(18,10) .713	(34,20) 1.346
40	(18,90) .744	(36,60) 1.441
49*	(22,90) .902	(43,80) 1.724
50	(22,90) .902	(44,60) 1.756
60	(26,90) 1.059	(52,60) 2.071

Positions where no dimensions are given do not have keying feature.  
\*Mates with EEDP Series.

CONNECTOR	CABLE*
HSEC8-113	EEDP-08
HSEC8-125	EEDP-16
HSEC8-137	EEDP-24
HSEC8-149	EEDP-32

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

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

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