



(0.80 mm) .0315"

HSEC8-120-01-L-RA

HSEC8-160-01-L-RA-BL

HSEC8-RA SERIES

# RIGHT-ANGLE EDGE RATE® CARD SOCKET

## SPECIFICATIONS

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

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact:**  
BeCu  
**Plating:**  
Au or Sn over 50 μm (1.27 μm) Ni  
**Current Rating:**  
2.6 A per pin (2 adjacent pins powered)  
**Operating Temp:**  
-55 °C to +125 °C  
**RoHS Compliant:**  
Yes

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (10-60)

## RECOGNITIONS

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



## ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

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

**Cable Mates:**  
ECDP



Rugged Edge Rate® contacts designed for Signal Integrity



Optional Board Locks

## HIGH-SPEED CHANNEL PERFORMANCE

HSEC8-RA

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)

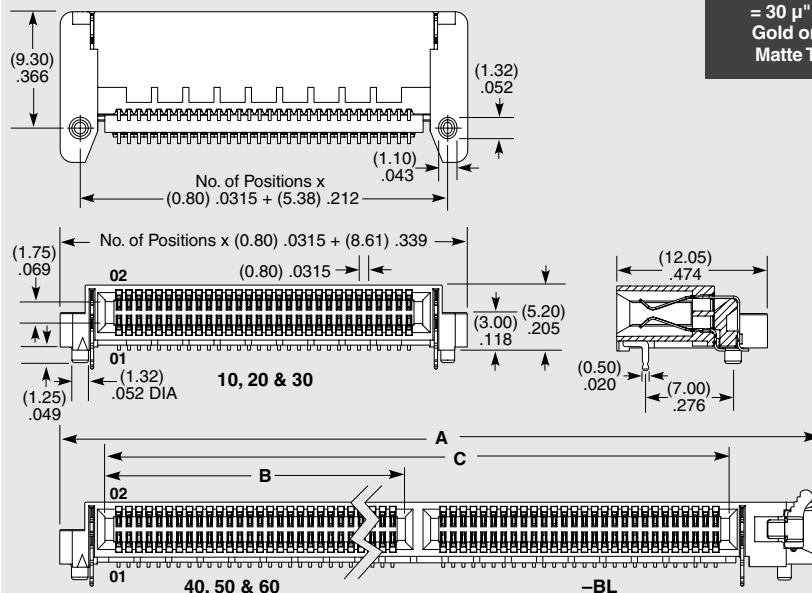
28 Gbps

Accepts (1.60 mm) .062" PCB thicknesses

RUGGEDIZED BY SAMTEC

• Board lock option

<b>HSEC8</b>	<b>1</b>	<b>POSITIONS PER ROW</b>	<b>CARD THICKNESS</b>	<b>PLATING OPTION</b>	<b>RA</b>	<b>OTHER OPTION</b>
09, 10, 13, 20, 25, 30, 40, 49, 50, 60			-01 = (1.60 mm) .062" thick card	-L = 10 μm (0.25 μm) Gold on contact, Matte Tin on tail  -S = 30 μm (0.76 μm) Gold on contact, Matte Tin on tail	-BL = Board Locks (09, 13, 25, 40, 49, 50, 60 only)  -L2 = ECDP Latching (09, 13, 25, 49 only) (For use with ECDP)  -TR = Tape & Reel Packaging (10 thru 60 positions only)	



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

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

[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.