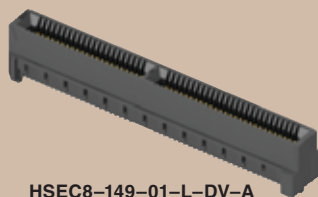


(0,80 mm) .0315"

HSEC8-DV SERIES



HSEC8-149-01-L-DV-A



# VERTICAL EDGE RATE™ CARD SOCKET

## SPECIFICATIONS

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

### Insulator Material:

Black Liquid Crystal Polymer

Contact: BeCu

Plating: Au or Sn over

50µ" (1,27 µm) Ni

Current Rating: 2.8 A per pin

(2 adjacent pins powered)

Operating Temp:

-55°C to +125°C

Card Insertion Depth:

(3,15 mm) .125" nominal

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)

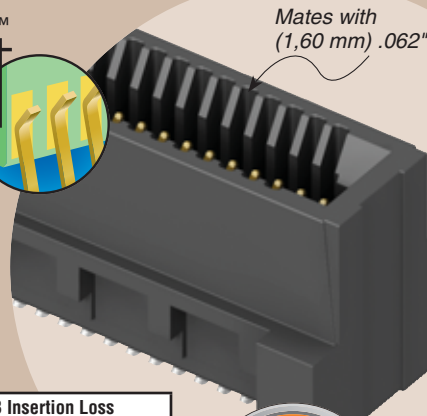


FILE NO. E111594



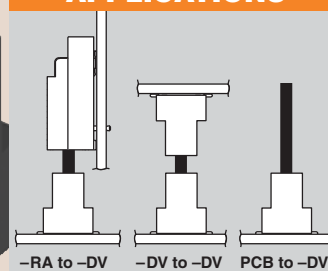
FILE NO. 69071\_0\_000

Mates with:  
1,60 mm thick cards,  
ECDP, HSC8

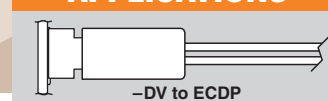


Mates with  
(1,60 mm) .062"

## BOARD-TO-BOARD APPLICATIONS



## HIGH SPEED CABLE APPLICATIONS



HSEC8 7,98 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	8 GHz / 16 Gbps	17 GHz / 34 Gbps
Differential Pair Signaling	10.5 GHz / 21 Gbps	15.5 GHz / 31 Gbps

\*Performance data includes effects of a non-optimized PCB.

\*\*Test board losses de-embedded from performance data.

Complete test data available at [www.samtec.com?HSEC8-DV](http://www.samtec.com?HSEC8-DV) or contact [sig@samtec.com](mailto:sig@samtec.com)

# 25<sup>+</sup>

Gbps

## OTHER SOLUTIONS

- Standard high speed interface cards for 19 mm, 25 mm & 30 mm mated heights, single-ended & differential applications. See HSC8 Series.

## ALSO AVAILABLE (MOQ Required)

- Guide rails
  - Pass-through options
  - Other platings
  - Custom cards for low-cost stack height customization
  - Samtec supplied card layout/artwork to make your own cards
  - Specialty card shapes
- Contact Samtec.

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

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

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

09, 10, 13, 20,  
25, 30, 37, 40, 49,  
50, 60, 70, 80, 100

(13, 25, 49 only available with -L or -L2 option;  
09 only available with -L2 option;  
37 only available with -L option)

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

-03  
= (2,36 mm) .093"  
thick card

CABLE	CONNECTOR
ECDP-04	HSEC8-109-L2
ECDP-08	HSEC8-113-L2
ECDP-16	HSEC8-125-L2
ECDP-32	HSEC8-149-L2

-L  
= 10µ" (0,25 µm) Gold on contact,  
Matte Tin on tail

-S  
= 30µ" (0,76 µm) Gold on contact,  
Matte Tin on tail  
(Requires -80 & -BL)

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

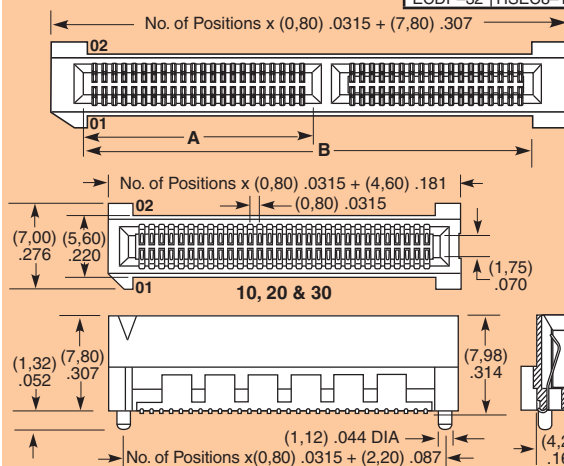
-BL  
= Board Locks  
(40, 50, 60, 80 only)  
(Other sizes  
available.  
Contact Samtec.)

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

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

-WT  
= Weld tab

-TR  
= Tape & Reel



POSITIONS PER ROW	A	B
09†	(4,50) .177	(11,80) .458
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
70†	(26,90) 1.059	(60,60) 2.386
80†	(26,90) 1.059	(68,60) 2.701
100†	(26,90) 1.059	(84,60) 3.331

Positions where no dimensions are given do not have keying feature.

\* Mates with ECDP Series.

† Available with -01 Card Only.

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

SAMTEC USA • Tel: +1-800-SAMTEC-9 or +1-812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: +1-408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: +1-800-726-8329  
 SAMTEC SOUTH AMERICA • Tel: +55 31 3786 3227 SAMTEC UNITED KINGDOM • Tel: +44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
 SAMTEC FRANCE • Tel: +33 1 60 95 06 60 SAMTEC ITALY • Tel: +39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46 8 4477280 SAMTEC BENELUX • Tel: +44 01236 739292  
 SAMTEC ISRAEL • Tel: +972 3 7526600 SAMTEC INDIA • Tel: +91 80 3272 1612 SAMTEC ANZ • Tel: +613 9580 0683 SAMTEC SINGAPORE • Tel: +65 6745 5955 SAMTEC JAPAN • Tel: +81 45 475 1385  
 SAMTEC SHANGHAI • Tel: +86 21 6083 3766 SAMTEC SHENZHEN • Tel: +86 755 83776780 SAMTEC TAIWAN • Tel: +886 2 2735 6109 SAMTEC HONG KONG • Tel: +852 26904658 SAMTEC KOREA • Tel: +82 31 717 5685