



E.L.P.[™]
EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles

HSEC8-125-01-L-DV-A

HSEC8-149-01-L-DV-A

HSEC8-DV SERIES

(0.80 mm) .0315"

VERTICAL EDGE RATE[®] CARD SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see 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)

Mates with:
(1.60 mm) .062" card,
(2.36 mm) .093" card,
ECDP, HSC8

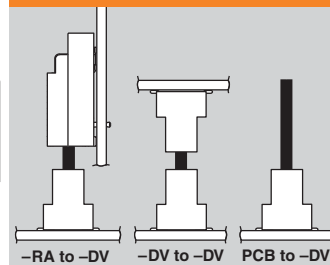


HIGH SPEED CABLE APPLICATIONS



Mates with (1.60 mm) .062"
or (2.36 mm) .093" cards

BOARD-TO-BOARD 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 or contact sig@samtec.com

Final Inch[®] | 28+
CERTIFIED | Gbps

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

FILE NO. 000271_0_000

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.

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

Notes:

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.

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

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

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

-K
= (7.01 mm) .276" DIA Polyimide Film Pick & Place Pad (with -01 card)
= (6.25 mm) .246" DIA Polyimide Film Pick & Place Pad (with -03 card)

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

-L
= Latching Option (13, 25, 37, 49 only) (Weld tab standard)

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

-WT
= Weld tab

-TR
= Tape & Reel (09 - 70 only)

POSITIONS PER ROW

	A	B
09††	(4.50) .177	(11.80) .465
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.

Diagram 1: 09, 13, 25, 37-100

Top view dimensions: No. of Positions x (0.80) .0315 + (7.80) .307

Side view dimensions: (1.32) .052, (7.80) .307, (No. of Positions + 6) x (0.80) .0315 + (0.60) .024

Diagram 2: 10, 20 & 30

Top view dimensions: No. of Positions x (0.80) .0315 + (4.60) .181, (7.80) .307, (1.75) .070, (1.12) .044 DIA, No. of Positions x (0.80) .0315 + (2.20) .087

Side view dimensions: (7.00) .276, (5.60) .220, (7.80) .307, (1.75) .070