

# HIGH SPEED HERMAPHRODITIC STRIP

## SPECIFICATIONS

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

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over

50µ" (1,27 µm) Ni

### Current Rating:

1.8 A per pin

(2 adjacent pins powered)

### Operating Temp Range:

-55°C to +125°C

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max

### Board Stacking:

For applications requiring more than two connectors per board, contact [ipg@samtec.com](mailto:ipg@samtec.com)

Mates with:  
LSEM



- High retention contacts
- Audible click when mated
- Shrouded

LSEM/LSEM 12 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	16.5 GHz / 33 Gbps
Differential Pair Signaling	20.0 GHz / 40 Gbps

\*Test board losses de-embedded from performance data.  
Complete test data available at [www.samtec.com?LSEM](http://www.samtec.com?LSEM) or contact [sig@samtec.com](mailto:sig@samtec.com)

High Speed/High Density

Low cost  
Blade &  
Beam  
contact

Audible click when  
properly mated

Self-mating  
system can  
reduce  
inventory costs

Mated height  
variety/flexibility

Slim  
Row-to-Row  
design

28+  
Gbps

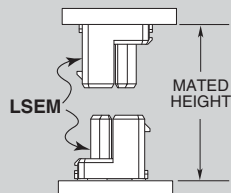
## RECOGNITIONS

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



FILE NO. E111594

## APPLICATION

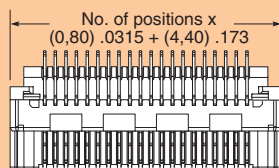


LEAD STYLE	MATED HEIGHT*
-03.0 & -03.0	(6,00) .236
-03.0 & -04.0	(7,00) .276
-04.0 & -04.0	(8,00) .315
-03.0 & -06.0	(9,00) .354
-04.0 & -06.0	(10,00) .394
-06.0 & -06.0	(12,00) .472

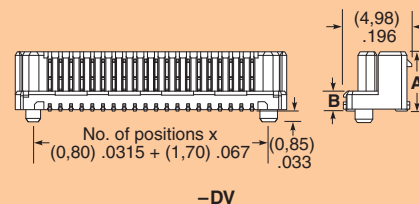
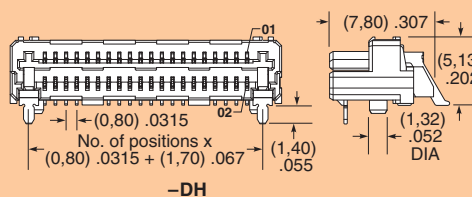
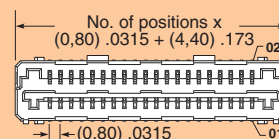
\*Processing conditions will affect mated height.

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

<b>LSEM</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>	<b>TAIL OPTION</b>	<b>A</b>	<b>N</b>	<b>K</b>	<b>TR</b>
20, 30, 40, 50			Specify LEAD STYLE from chart	<b>-F</b> = Gold flash on contact, Matte Tin on tail  <b>-L</b> = 10µ" (0,25 µm) Gold on contact, Matte Tin on tail	<b>-DV</b> = Vertical  <b>-DH</b> = Right Angle (Lead style -01 only)	<b>-K</b> = (5,50 mm) .217" DIA Polyimide film Pick & Place Pad  <b>-TR</b> = Tape & Reel			



LEAD STYLE	A	B
-01 (-DH only)	NA	NA
-03.0	(4,45) .175	(1,50) .059
-04.0	(5,45) .215	(2,50) .098
-06.0	(7,45) .293	(4,50) .177



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

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