

(1,00 mm) .0394"

SAL1 SERIES

SAL1-120-01-S-S-A-TR

SAL1-140-01-S-S-A-TR

SAL1-127-01-S-S-A-TR

# HIGH SPEED MICRO PLANE SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SAL1](http://www.samtec.com?SAL1)

### Insulator Material:

Black LCP

### Contact Material:

BeCu

### Plating:

Au or Sn over

50µ" (1,27 µm) Ni

### Operating Temp:

-55°C to +125°C

### Current Rating:

2.3 A per contact @ 80°C

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max



**Mates with:**  
(1,60 mm) .062" or  
(2,40 mm) .093" card

## APPLICATION SPECIFIC OPTION

Heavy Gold plating available.  
Call Samtec.

Mount in pairs on  
same side or opposite  
sides for easy  
signal routing

Surface  
Mount

Variable mating  
card thickness

Weld tab

Large deflection  
BeCu contact

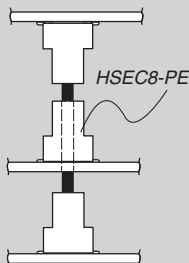
**SATALink™**  
Compatible

SATALink™ is a trademark  
of Silicon Image Inc.

SAL1		Rated @ 3dB Insertion Loss*
Single-Ended Signaling	Top or Bottom	8.5 GHz / 17 Gbps
Differential Pair Signaling	Top	9 GHz / 18 Gbps
Differential Pair Signaling	Bottom	10 GHz / 20 Gbps

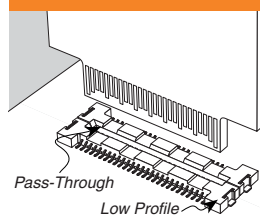
\*Performance data includes effects of a non-optimized PCB.  
Complete test data available at [www.samtec.com?SAL1](http://www.samtec.com?SAL1)  
or contact [sig@samtec.com](mailto:sig@samtec.com)

## ALSO AVAILABLE



See HSEC8-PE Series for other  
card pass-through options.

## APPLICATIONS



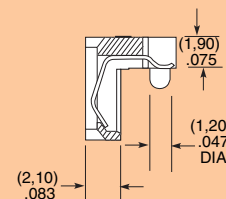
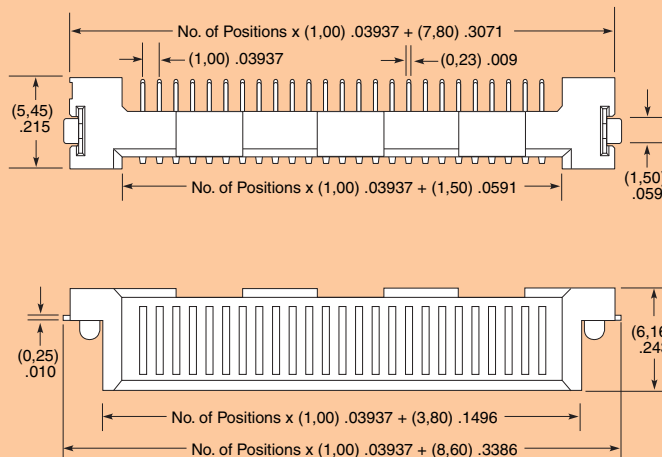
Same side mount

**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.

SAL1	1	NO. OF POSITIONS	01	PLATING OPTION	S	A	TR
20, 27, 30, 40				-S = 30µ" (0,76 µm) Gold on contact, Matte Tin on tail		-TR = Tape & Reel	

**Note:** Other Gold plating  
options available.  
Contact Samtec.



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

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

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