

SEAR SERIES

# 85 $\Omega$ HIGH-SPEED/HIGH-DENSITY RISER

## SPECIFICATIONS

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

### Insulator Material:

Black LCP

### Clip Material:

Copper Alloy

### PCB Material:

FR4, Copper

### Operating Temp Range:

-55 °C to +125 °C

### Current Rating:

Signal:

1.4 A per pin  
(20 adjacent signal pins powered)

Ground:

5.4 A per pin  
(10 adjacent ground pins powered)

### Contact Area:

Hard Gold plated

### Working Voltage:

240 VAC

### RoHS Compliant:

Yes

### Lead-Free Solderable:

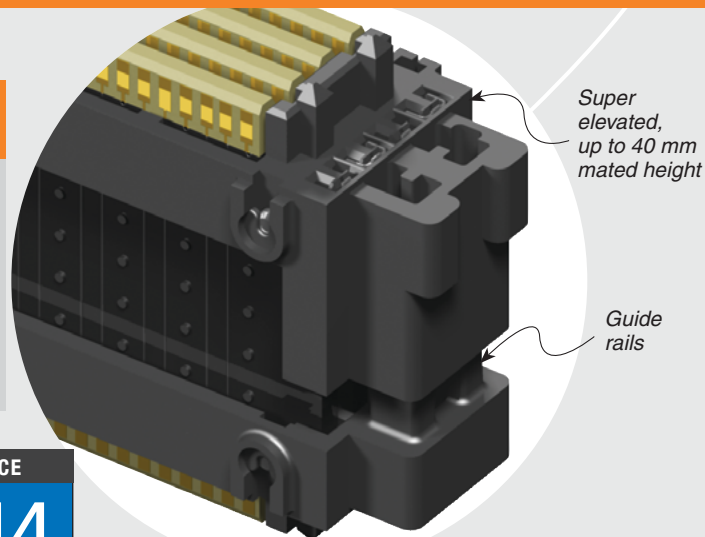
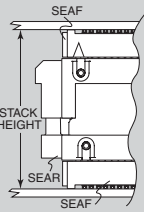
Yes

Side A  
Mates with:  
SEAF

Side B  
Mates with:  
SEAF

## ALSO AVAILABLE (MOQ Required)

- Custom stack heights up to 40 mm
- 50  $\Omega$  and 100  $\Omega$  systems
- Additional positions
- Additional row options



Super elevated, up to 40 mm mated height

Guide rails

## HIGH-SPEED CHANNEL PERFORMANCE

SEAR/SEAF @ 20 mm Mated Stack Height

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)

14  
Gbps

SEAR

NO. OF PINS  
PER ROWLEAD  
STYLENO. OF  
ROWS

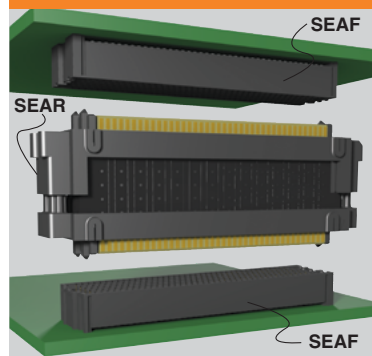
085

-40, -50

(Call Samtec for other sizes)

Specify  
LEAD STYLE  
from chart-06  
= Six Rows-08  
= Eight Rows-10  
= Ten Rows-085  
= 85  $\Omega$  system

## APPLICATION



MATED HEIGHT*	
SEAR LEAD STYLE	SEAF LEAD STYLE
	-05.0 (SIDE A & B)
-10.0	20 mm
-20.0	30 mm
-30.0	40 mm

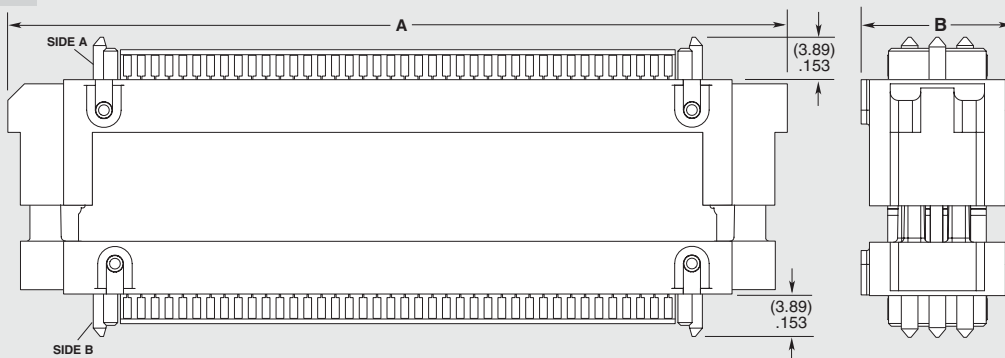
\*Processing conditions will affect mated height.

### Note:

Some sizes, styles and options are non-standard, non-returnable.

NO. OF POSITIONS	A
-40	(71.42) 2.812
-50	(84.12) 3.312

NO. OF ROWS	B
-06	(11.43) .450
-08	(13.97) .550
-10	(16.51) .650



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.

# Mouser Electronics

Authorized Distributor

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