

SEAR-50-10.0-08-085

SEAR SERIES

85 Ω HIGH-SPEED/HIGH-DENSITY RISER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see see 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:

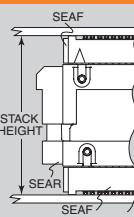
Yes

Side A
Mates with:
SEAF

Side B
Mates with:
SEAF

ALSO AVAILABLE (MOQ Required)

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



Super elevated,
up to 40 mm
mated height

Guide
rails

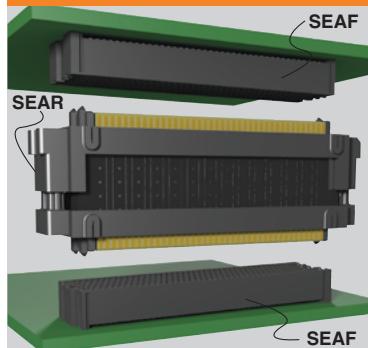
14
G b p s

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 or contact SIG@samtec.com

APPLICATION



SEAR

NO. OF PINS
PER ROW

-40, -50
(Call Samtec for other sizes)

LEAD
STYLE

Specify
LEAD STYLE
from chart

NO. OF
ROWS

-06
= Six Rows
-08
= Eight Rows
-10
= Ten Rows

085

-085
= 85 Ω system

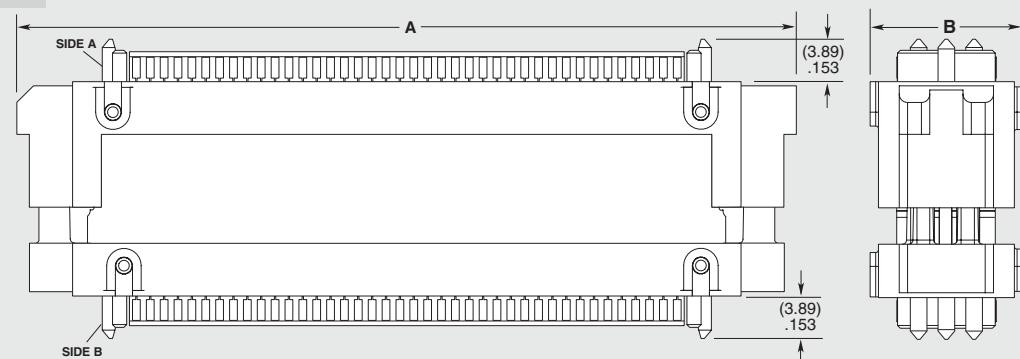
NO. OF POSITIONS	A
-40	(71.42) 2.812
-50	(84.12) 3.312

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

MATED HEIGHT*	
SEAR LEAD STYLE	SEAF LEAD STYLE
-05.0 (SIDE A & B)	-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.



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

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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Samtec:

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