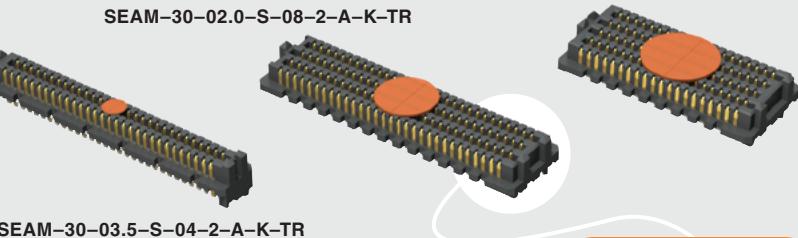


(1.27 mm) .050"



SEAM SERIES

# HIGH-SPEED/HIGH-DENSITY OPEN-PIN-FIELD

## SPECIFICATIONS

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

**Insulator Material:**

Black LCP

**Contact Material:**

Copper Alloy

**Operating Temp Range:**

-55 °C to +125 °C

**Current Rating**

(7 mm stack height):

2.7 A per pin  
(10 adjacent pins powered)

**Plating:**

Au or Sn over

50  $\mu$ " (1.27 mm) Ni

**Working Voltage:**

240 VAC

**RoHS Compliant:**

Yes

**Lead-Free Solderable:**

Yes

## RECOGNITIONS

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



## STANDARDS

- VITA 47
- VITA 57.1 FMC
- VITA 57.4 FMC+
- VITA 74 VNX

## PROTOCOLS

- 100 GbE
- Fibre Channel
- Rapid I/O
- PCI Express®
- SATA
- InfiniBand™

SEAM LEAD STYLE	MATED HEIGHTS			
	SEAF LEAD STYLE			
	-05.0	-06.0	-06.5	-07.5
-02.0	7 mm	8 mm	8.5 mm	9.5 mm
-03.0	8 mm	9 mm	9.5 mm	10.5 mm
-03.5	8.5 mm	9.5 mm	10 mm	11 mm
-06.5	11.5 mm	12.5 mm	13 mm	14 mm
-07.0	12 mm	13 mm	13.5 mm	14.5 mm
-09.0	14 mm	15 mm	15.5 mm	16.5 mm
-11.0	16 mm	17 mm	17.5 mm	18.5 mm

**Notes:**  
Patented

IPC-A-610F and  
IPC J-STD-001F Class 3  
solder joint.

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

Mates with:  
SEAF, SEAFP

Standoffs:  
JSO



Up to 500  
Pins

Low  
insertion/  
extraction  
forces



10 YEAR MFG  
WITH 30  $\mu$ " GOLD  
EXTENDED LIFE  
PRODUCT

HIGH MATING  
CYCLES

Solder  
charges

## HIGH-SPEED CHANNEL PERFORMANCE

SEAF/SEAM @ 10 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)

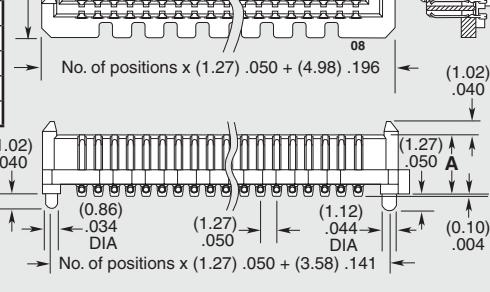
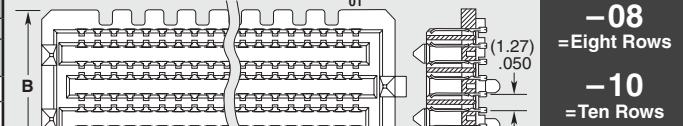
PAM 4  
56  
G bps

## OTHER SOLUTIONS

- Up to 560 pins

SEAM	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	TR
	-10, -15, -20, -30, -40, -50	Specify LEAD STYLE from chart	-L = 10 $\mu$ " (0.25 $\mu$ m) Gold on contact area, Matte Tin on solder tail	-04	-1 = Tin/Lead Alloy Solder Charge	-A	-K	-TR
	(-10 only available in 04 row) (-15 is only available in 4 Row with -02.0 lead style and 10 row with any lead style)		-S = 30 $\mu$ " (0.76 $\mu$ m) Gold on contact area, Matte Tin on solder tail	-05	-2 = Lead-Free Solder Charge			
			-06 = Six Rows (-06.5 not available)	-06				
			-08 = Eight Rows	-08				
			-10 = Ten Rows	-10				

NO. OF ROWS	B
-04	(7.06).278
-05, -06	(9.60).378
-08	(12.14).478
-10	(14.68).578



LEAD STYLE	A
-02.0	(4.60).181
-03.0	(5.59).220
-03.5	(6.10).240
-06.5	(9.14).360
-07.0	(9.60).378
-09.0	(11.60).457
-11.0	(13.60).535

## POWER/SIGNAL APPLICATION



Compatible with  
UMPT/UMPS for flexible  
two-piece power/signal solutions

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.