

(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 μ" (1.27 μm) Ni

### Working Voltage:

240 VAC

### RoHS Compliant:

Yes (-2 Solder type only)

### Lead-Free Solderable:

Yes

## RECOGNITIONS

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



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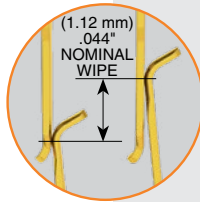
## STANDARDS

- VITA 47
- VITA 57.1 FMC
- VITA 57.4 FMC+
- VITA 74 VNX
- PISMO™ 2

Visit [www.samtec.com/standards](http://www.samtec.com/standards) for more information.

Mates with:  
SEAF, SEAFP

Standoffs:  
JSO



Low  
insertion/  
extraction  
forces

Up to 500  
Pins



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  
Gbps

## OTHER SOLUTIONS

- Up to 560 pins

SEAM ■ NO. PINS PER ROW ■ LEAD STYLE ■ PLATING OPTION ■ NO. OF ROWS ■ SOLDER TYPE ■ A ■ K ■ "X"R

**-10, -15, -20,  
-30, -40, -50**  
(-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)

Specify  
LEAD  
STYLE  
from  
chart

**-L**  
= 10 μ"  
(0.25 μm)  
Gold on  
contact area,  
Matte Tin on  
solder tail

**-S**  
= 30 μ"  
(0.76 μm)  
Gold on  
contact area,  
Matte Tin on  
solder tail

**-04**  
=Four Rows  
(-06.5 not  
available)

**-05**  
=Five Rows  
(-06.5 not  
available)

**-06**  
=Six Rows  
(-06.5 not  
available)

**-08**  
=Eight Rows

**-10**  
=Ten Rows

**-1**  
= Tin/Lead  
Alloy  
Solder  
Charge

**-2**  
= Lead-Free  
Solder  
Charge

**-A**  
= Alignment Pins  
(Required. Arrays  
will not self-center  
on solder pads)

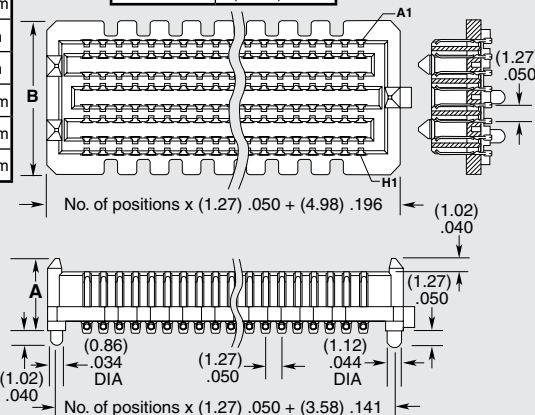
**-K**  
= Polyimide film  
Pick & Place Pad

**-TR**  
=Tape & Reel

**-FR**  
= Full Reel Tape &  
Reel Packaging  
(Must order max. quantities  
per reel. Contact Samtec  
for parts per reel)

| SEAM<br>LEAD<br>STYLE | MATED HEIGHTS<br>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 |

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



| LEAD<br>STYLE | A            |
|---------------|--------------|
| -02.0         | (5.61) .221  |
| -03.0         | (6.60) .260  |
| -03.5         | (7.11) .280  |
| -06.5         | (10.16) .400 |
| -07.0         | (10.59) .417 |
| -09.0         | (12.60) .496 |
| -11.0         | (14.61) .575 |

## POWER/SIGNAL APPLICATION



**Notes:**  
IPC-A-610F & IPC-J-STD-001F  
Class 3 solder joint.

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](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.