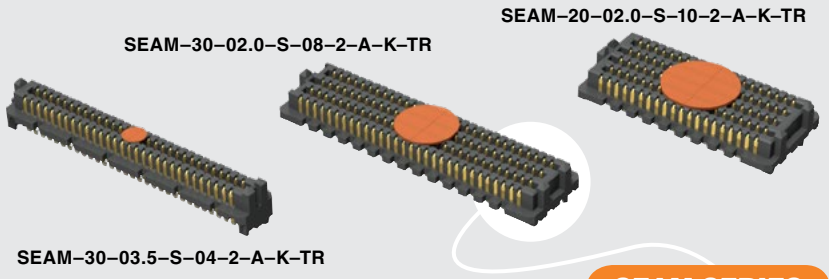
samtec

SEARAY™




**(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

**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

FILE NO. E111594

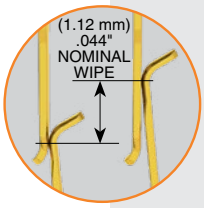
## STANDARDS

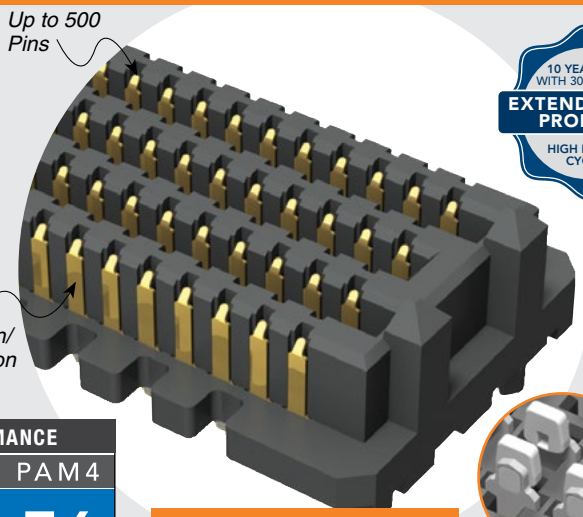
- VITA 47
- VITA 57.1 FMC
- VITA 57.4 FMC+
- VITA 74 VNX
- PISMO™ 2

Visit www.samtec.com/standards for more information.

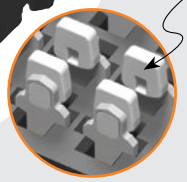
**Mates with:**
SEAF, SEAFP

**Standoffs:**
JSO




10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES




### 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 or contact SIG@samtec.com*

PAM4
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)

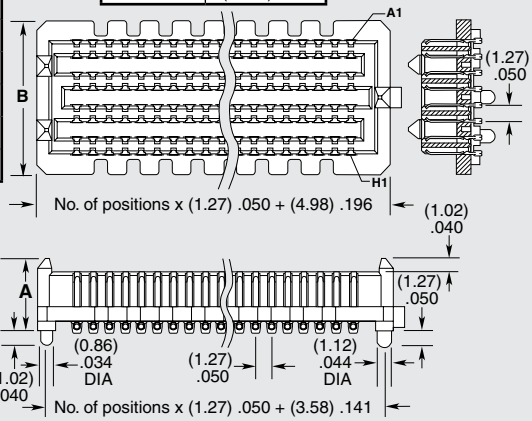
**–K**
= Polyimide film Pick & Place Pad

**–TR**
=Tape & Reel

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

| MATED HEIGHTS | | | | |
|---|---|---|---|---|
| SEAM LEAD STYLE | 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 ROWS | B |
|---|---|
| –04 | (7.06) .278 |
| –05, –06 | (9.60) .378 |
| –08 | (12.14) .478 |
| –10 | (14.68) .578 |




| LEAD 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

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

**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.*



*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.*