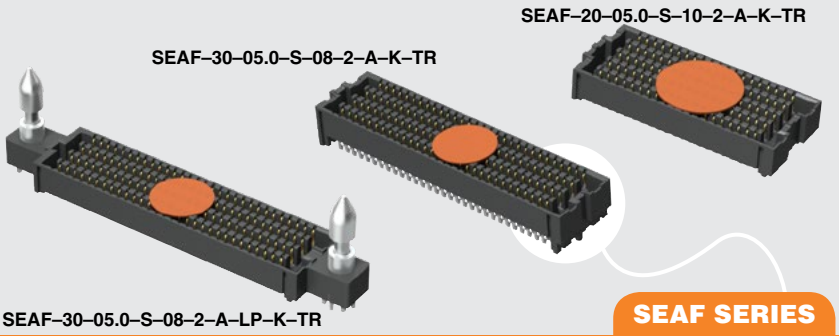
samtec

SEARAY™




**(1.27 mm) .050"**

**SEAF SERIES**

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

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SEAF

**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

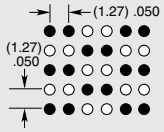
FILE NO. E111594

## STANDARDS

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

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

## DIFFERENTIAL SIGNAL ROUTING




The above signal routing configuration allows for the use of 25 to 125 differential pair counts. Contact sig@samtec.com for specific details.

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

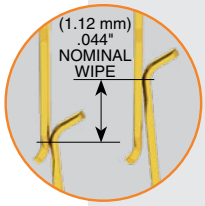
Some sizes, styles and options are non-standard, non-returnable.

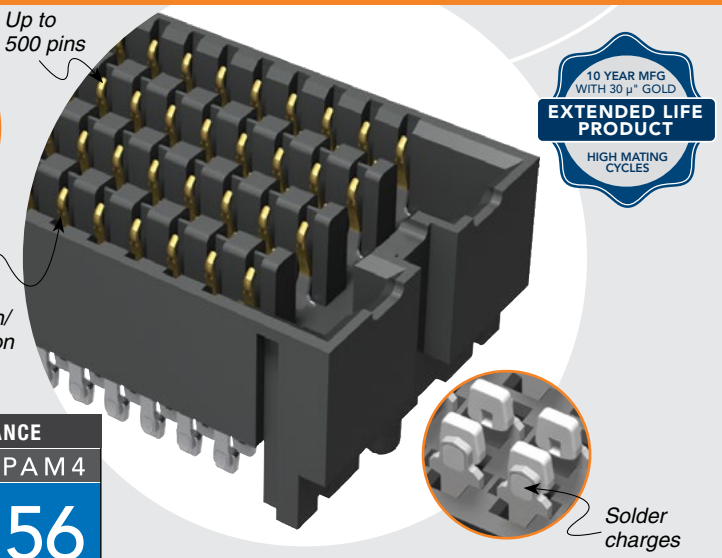
**Board Mates:**
SEAM, SEAMP, SEAR, SEAMI

**Cable Mates:**
SEAC*

**Standoffs:**
JSO

***NOTE:**
SEAFC is recommended to mate to SEAC cable. Visit www.samtec.com?SEAFC for specifications.




## HIGH-SPEED CHANNEL PERFORMANCE

**SEAF/SEAM @ 10 mm Mated Stack Height**

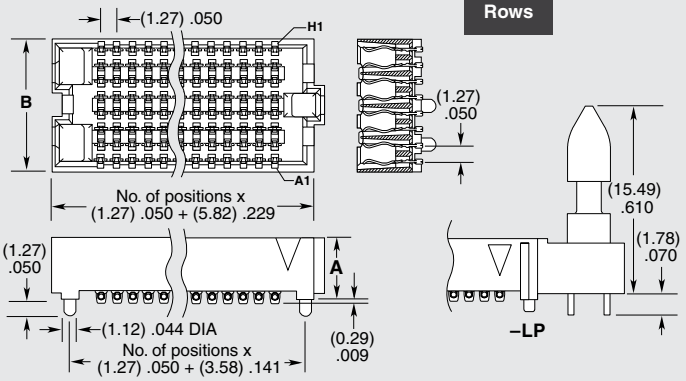
*Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com*

PAM4 56 Gbps

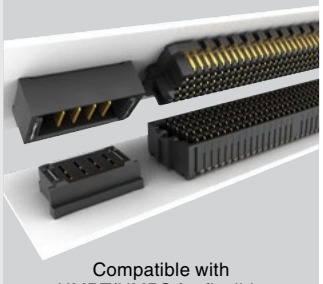
| SEAF | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | NO. OF ROWS | SOLDER TYPE | A | OPTION | K | "X"R |
|---|---|---|---|---|---|---|---|---|---|
| | –10, –15, –20, –30, –40, –50 (–10 only available in 04 row) (–15 only available in 04 or 10 row with –05.0 lead style) | Specify LEAD STYLE from chart | –L = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail<br>–S = 30 µ" (0.76 µm) Gold on contact area, Matte Tin on solder tail | –04 = Four Rows<br>–05 = Five Rows<br>–06 = Six Rows<br>–08 = Eight Rows<br>–10 = Ten Rows | –1 = Tin/Lead Alloy Solder Charge<br>–2 = Lead-Free Solder Charge | | –LP = Latch Post (–LP required for SEAC mate only) (Available with –05.0 lead style and –04, –06, –08 & –10 rows only) | | –TR = Tape & Reel<br>–FR = Full Reel Tape & Reel Packaging (Must order max. quantities per reel. Contact Samtec for parts per reel) |

| NO. OF ROWS | B |
|---|---|
| –04 | (5.66) .223 |
| –05, –06 | (8.20) .323 |
| –08 | (10.74) .423 |
| –10 | (13.28) .523 |

| LEAD STYLE | A |
|---|---|
| –05.0 | (5.05) .199 |
| –06.0 | (6.05) .238 |
| –06.5 | (6.55) .258 |
| –07.5 | (7.54) .297 |




## 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.*



*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.*