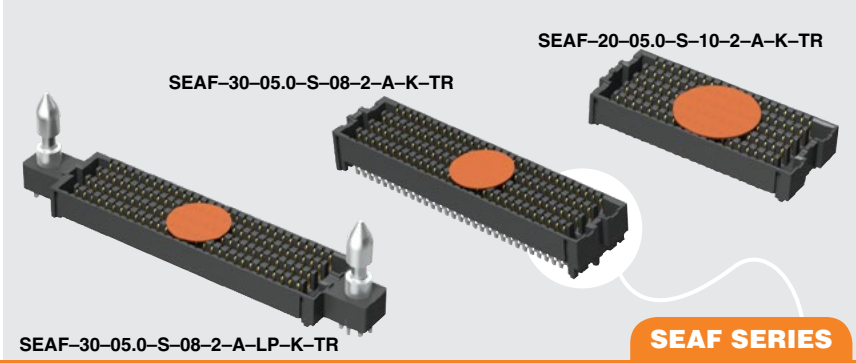
samtec

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

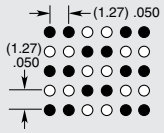
FILE NO. E111594

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.

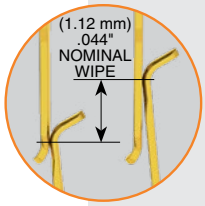
Some sizes, styles and options are non-standard, non-returnable.

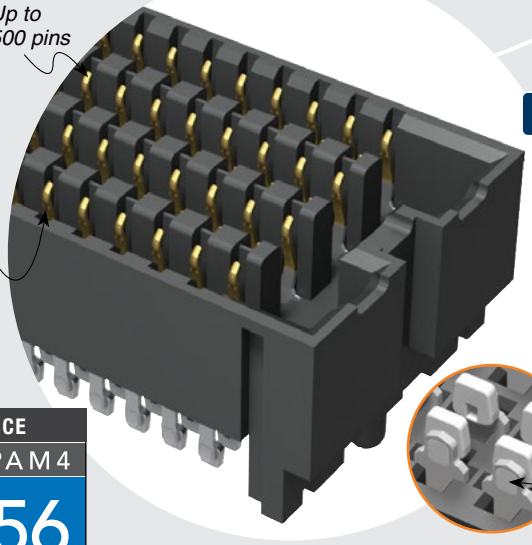
Board Mates:
SEAM, SEAMP, SEAR, SEAMI

Cable Mates:
SEAC*

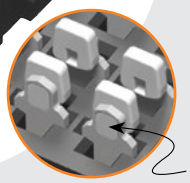
Standoffs:
JSO

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





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

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)

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

Specify LEAD STYLE from chart

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

–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
–05 = Five Rows
–06 = Six Rows
–08 = Eight Rows
–10 = Ten Rows

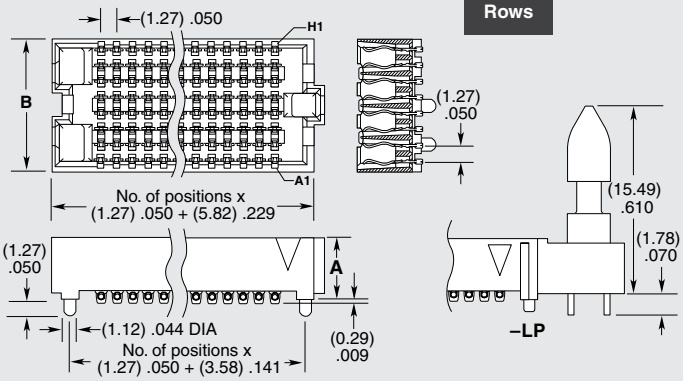
–1
= Tin/Lead Alloy Solder Charge

–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

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



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.