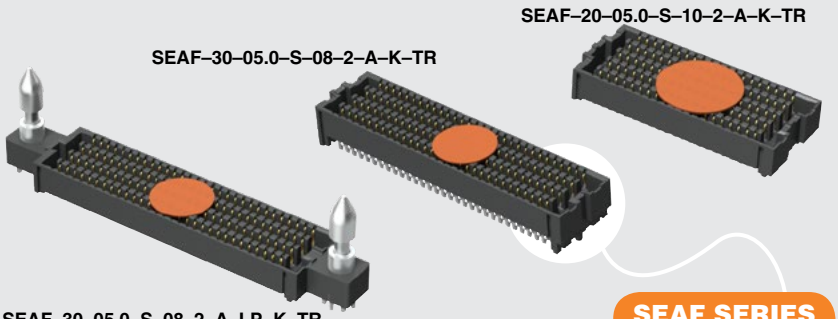
samtec

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

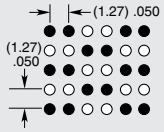
FILE NO. E111594

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.

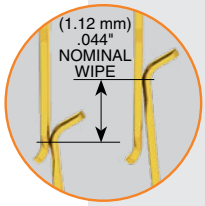
Some sizes, styles and options are non-standard, non-returnable.

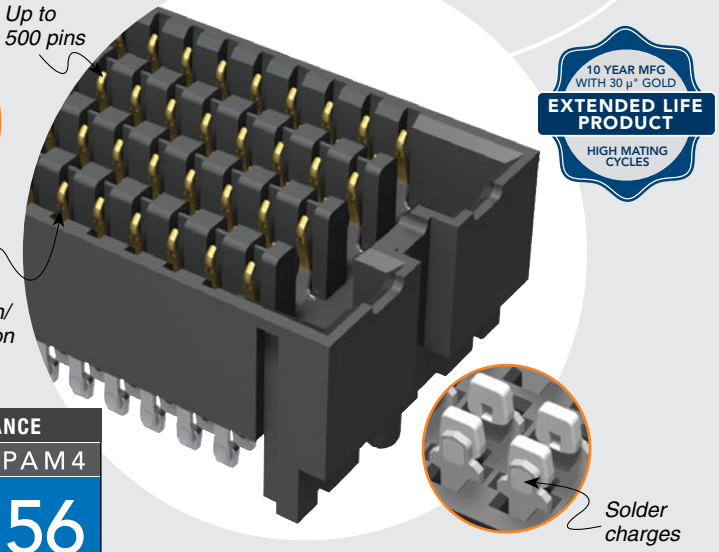
Board Mates:
SEAM, SEAMP, SEAR, SEAMI

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

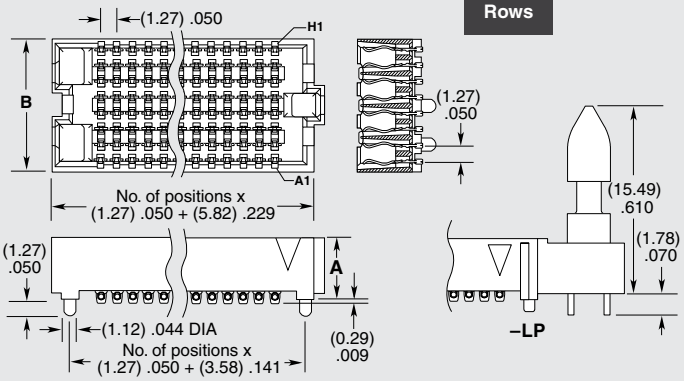
SEAF/SEAM @ 10 mm Mated Stack Height
Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

PAM4 56 Gbps

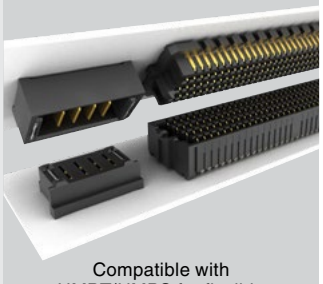
SEAF	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	OPTION	K	"X"R
	–10, –15, –20, –30, –40, –50 (–10 only available in 04 row) (–15 only available in 04 or 10 row with –05.0 lead style)	Specify LEAD STYLE from chart	–L = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail –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)

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

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.