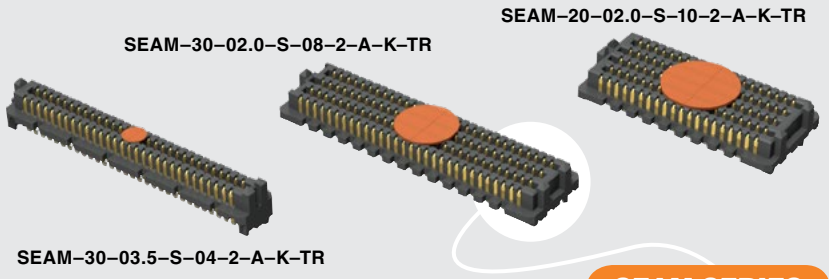
samtec

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

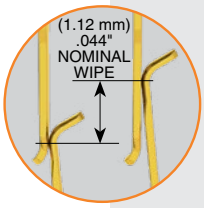
STANDARDS

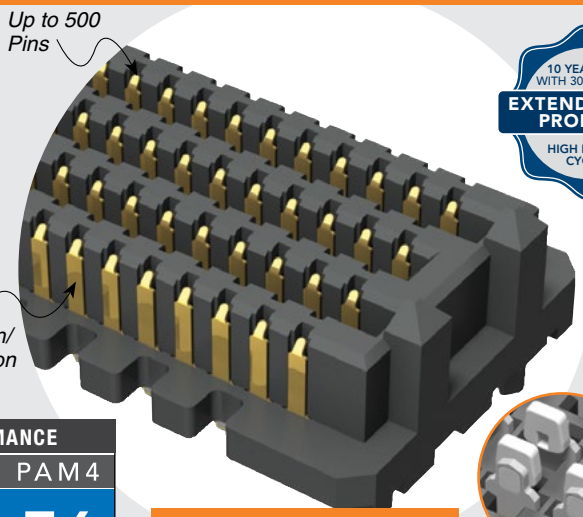
- VITA 47
- VITA 57.1 FMC
- VITA 57.4 FMC+
- VITA 74 VNX
- PISMO™ 2

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

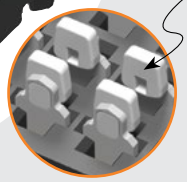
Mates with:
SEAF, SEAFP

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)

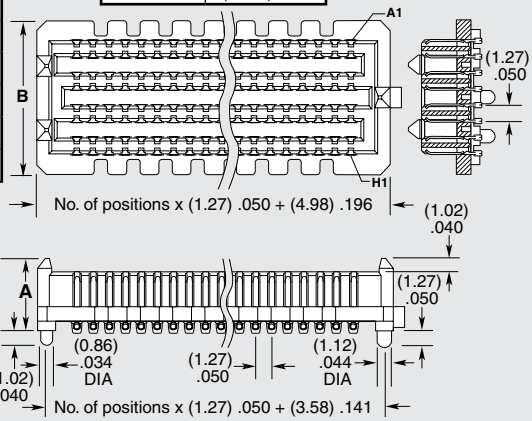
–K
= Polyimide film Pick & Place Pad

–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.