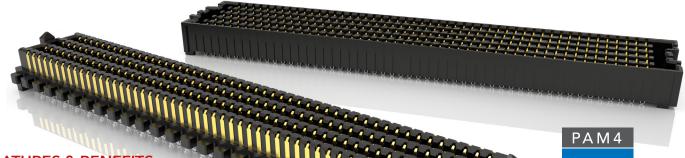
SEARAY^M

HIGH-DENSITY OPEN-PIN-FIELD ARRAYS

(1.27 mm) .050" PITCH



FEATURES & BENEFITS

- Maximum grounding & routing flexibility
- Up to 560 Edge Rate® contacts optimized for signal integrity performance.
- 7 mm to 40 mm stack heights
- Variety of designs and options: Right-Angle, Guide Posts, 85 Ω Elevated Risers, 85 Ω Tuned, Press-Fit and Press-Fit Right-Angle, Guide Post Field Termination Kits
- Cable mates (SEAC Series) and Jack Screw Standoffs (JSO Series) also available
- Standards: VITA[™] 47, VITA[™] 57.1 FMC[™],
 VITA[™] 57.4 FMC[™]+, VITA[™] 74 VNX[™], PISMO[™] 2
- Supports high-speed protocols such as Ethernet, PCI Express[®], Fibre Channel & InfiniBand™
- Severe Environment Testing qualified (SEAM/SEAF); aligns with MIL-DTL-55302. Visit samtec.com/set

 $\label{eq:VITA/VNX/VNX+FMC/FMC+XMC/XMC+} In the constraint of VITA PCI-SIG ``.$

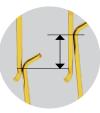
The PCI Express* design marks are registered trademarks and/or service marks of PCI-SIG.



EDGE® RATE

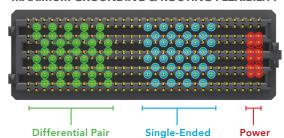


Solder Charges



(1.12 mm) .044" Nominal Wipe

MAXIMUM GROUNDING & ROUTING FLEXIBILITY



SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
SEAM/SEAF	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAM-RA/SEAF-RA	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	1.9 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAM-GP	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC/339 VDC	Yes
SEAMP/SEAFP	Natural High Temp Nylon	Copper Alloy (SEAMP) BeCu Alloy (SEAFP)	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	1.9 A (6 pins powered)	255 VAC/361 VDC	Not Available
SEAR	Black LCP	Hard Gold Plated	Au over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	1.4 A (20 pins powered)	240 VAC/339 VDC	Not Available
SEAMI	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	Not Available	Not Available	Yes

Note: Some lengths, styles and options are non-standard, non-returnable



(1.27 mm) .050" PITCH • SEAM/SEAF SERIES

SERIES

POSITIONS PER ROW

PLATING OPTION **LEAD STYLE**

NO. OF ROWS

SOI DER









SEAM Terminal

SEAF

Socket

-10, -15, -20, -30, -40, -50

SEAM & SEAF: -10 only available in -04 Row

SEAM: -15 only available in -04 Row with -02.0 Lead Style, and -10 Row with any Lead Style

SEAF: -15 only available in -04 or -10 Row with -5.0 Lead Style

Specify LEAD **STYLE**

from

chart

= $10 \, \mu$ " (0.25 μ m) Gold on contact area, Matte Tin on solder tail

= SureCoat[™] 3 μ" (0.07 μm) Gold Flash and 30 μ" (0.76 μm) Palladium Nickel on contact area, Matte Tin on solder tail (-02.0, -03.5, -05.0 & SEAF -06.5 Lead Styles only)

-04 -1 = Tin/ Lead Alloy -05

-06 -08

(SEAM -05 Rows not available with -06.5 Lead Style)

-10

Solder Charge

-2 = Lead-Free Solder Charge

NO. OF ROWS

-04

-05. -06

-08

-10

(7.06)

.278

(9.60)

.378

(12.14)

.478 (14.68)

.578

-A = Alignment Pin

–K Polyimide Film Pick & Place Pad

> -TR = Tape & Reel

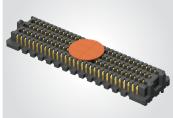
-FR

= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SEAM

JSO

Board Mates: SEAF, SEAFP Standoffs:

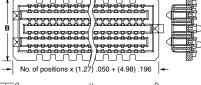


ALSO AVAILABLE

Other platings



-02.0 (5.61) .221 -03.0 (6.60) .260 -03.5 (7.11) .280 -06.5 (10.16) .400 (10.59) .417 -07.0 -09.0 (12.60) .496 -11.0 (14.61) .575





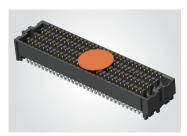
OTHER SOLUTIONS

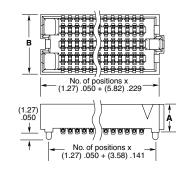
See website for 14 row option.

Board Mates: SEAM, SEAMP, SEAR, SEAMI

Standoffs: **JSO**

SEAF





View complete specifications at: samtec.com?SEAF

View complete specifications at: samtec.com?SEAM

MATED HEIGHTS								
	SEAF LEAD STYLE							
SEAM 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				

LEAD STYLE	A	NO. OF
-05.0	(5.05) .199	-04
-06.0	(6.05) .238	-05, -06
-06.5	(6.55) .258	-08
-07.5	(7.54) .297	-10

STANDARDS

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

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

Notes:

IPC-A-610F and IPC J-STD-001F Class 3 solder joint. Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

В

(5.66) .223

(8.20) .323

(10.74) .423

(13.28) .523