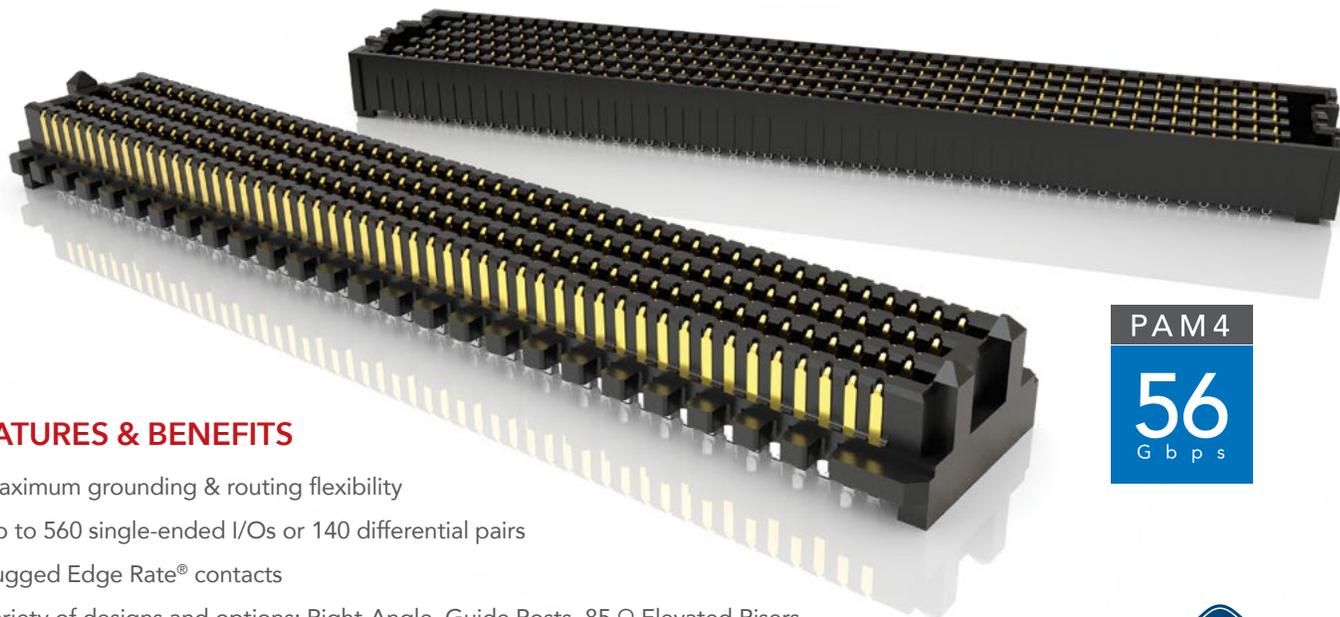


# SEARAY™

## HIGH-DENSITY OPEN-PIN-FIELD ARRAYS

(1.27 mm) .050" PITCH



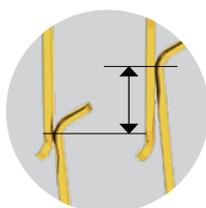
### FEATURES & BENEFITS

- Maximum grounding & routing flexibility
- Up to 560 single-ended I/Os or 140 differential pairs
- Rugged Edge Rate® contacts
- 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
- Compatible with UMPT/UMPS for power/signal flexibility
- 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

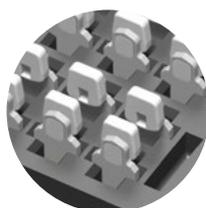
PAM 4  
**56**  
G b p s

**EDGE RATE**  
CONTACT

10 YEAR MFG WITH 30 μ" GOLD  
**EXTENDED LIFE PRODUCT**  
HIGH MATING CYCLES



(1.12 mm) .044" Nominal Wipe

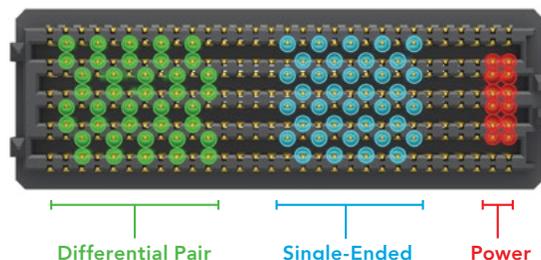


Solder Charges



Power / Signal Applications

### MAXIMUM GROUNDING & ROUTING FLEXIBILITY



### KEY SPECIFICATIONS

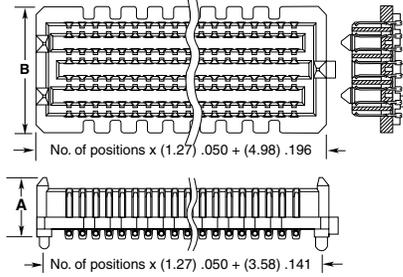
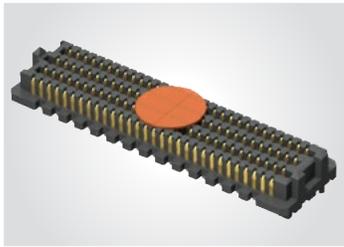
PITCH	STACK HEIGHTS	TOTAL PINS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	WORKING VOLTAGE	LEAD-FREE SOLDERABLE
1.27 mm x 1.27 mm	7 mm - 18.5 mm	40 - 560	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.7 A per pin (10 adjacent pins powered) 7 mm stack height	240 VAC	Yes

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

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

SERIES	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	"X" R
<b>SEAM</b> Terminal	<b>-10, -15, -20, -30, -40, -50</b>	Specify LEAD STYLE from chart	<b>-L</b> = 10 μ" (0.25 μm) Gold on contact area, Matte Tin on solder tail  <b>-S</b> = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on solder tail	<b>-04</b> <b>-05</b> <b>-06</b> <b>-08</b> <b>-10</b> SEAM: -04, -05 & -06 (Rows not available with -06.5 Lead Style)	<b>-1</b> = Tin/Lead Alloy Solder Charge  <b>-2</b> = Lead-Free Solder Charge	<b>-A</b> = Alignment Pin  <b>-K</b> Polyimide Film Pick & Place Pad  <b>-TR</b> = Tape & Reel  <b>-FR</b> = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)		
<b>SEAF</b> Socket	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							

**SEAM**  
Board Mates: SEAF, SEAFP  
Standoffs: JSO

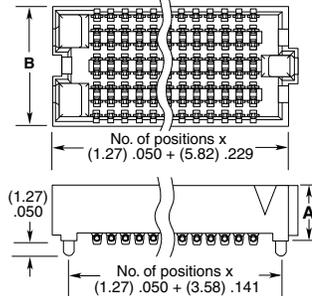
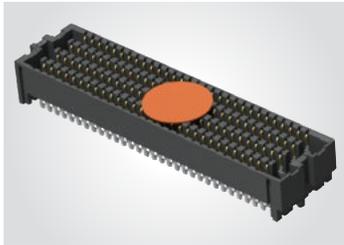


LEAD STYLE	A	NO. OF ROWS	B
-02.0	(5.61) .221	-04	(7.06) .278
-03.0	(6.60) .260	-05, -06	(9.60) .378
-03.5	(7.11) .280	-08	(12.14) .478
-06.5	(10.16) .400	-10	(14.68) .578
-07.0	(10.59) .417		
-09.0	(12.60) .496		
-11.0	(14.61) .575		

**ALSO AVAILABLE**  
See website for 14 row option.

View complete specifications at: [samtec.com?SEAM](http://samtec.com?SEAM)

**SEAF**  
Board Mates: SEAM, SEAMP, SEAR, SEAMI  
Standoffs: JSO



LEAD STYLE	A	NO. OF ROWS	B
-05.0	(5.05) .199	-04	(5.66) .223
-06.0	(6.05) .238	-05, -06	(8.20) .323
-06.5	(6.55) .258	-08	(10.74) .423
-07.5	(7.54) .297	-10	(13.28) .523

View complete specifications at: [samtec.com?SEAF](http://samtec.com?SEAF)

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

STANDARDS
VITA 47
VITA 57.1 FMC
VITA 57.4 FMC+
VITA 74 VNX
PISMO™2
Visit <a href="http://www.samtec.com/standards">www.samtec.com/standards</a> for more information.

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