

(1.27 mm) .050"

# HIGH-SPEED/HIGH-DENSITY OPEN-PIN-FIELD

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SEAF](http://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):** 1.8 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
- Lead-Free Solderable:** Yes

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## STANDARDS

- VITA 47
- VITA 57.1 FMC
- VITA 57.4 FMC+
- VITA 74 VNX

## PROTOCOLS

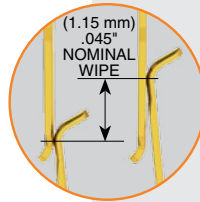
- 100 GbE
- Fibre Channel
- Rapid I/O
- PCI Express®
- SATA
- InfiniBand™

## Notes:

Patented  
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



Up to 500 pins

Low insertion/extraction forces

## IN DEVELOPMENT\*

- Connector (SEAF) optimized for cable application. Contact Samtec.

## HIGH-SPEED CHANNEL PERFORMANCE

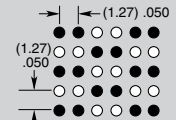
SEAF/SEAM @ 10 mm Mated Stack Height  
Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

PAM 4

56 Gbps



## DIFFERENTIAL SIGNAL ROUTING

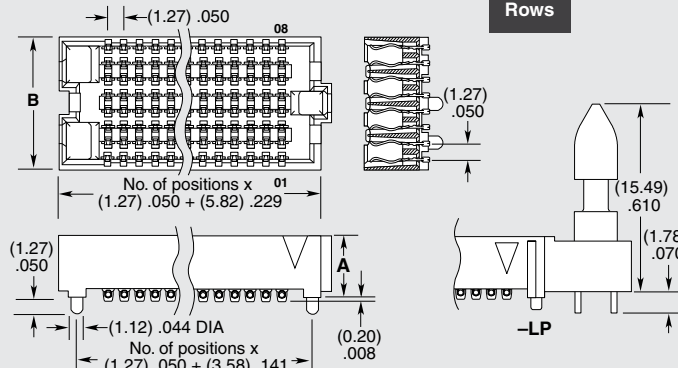


The above signal routing configuration allows for the use of 25 to 125 differential pair counts. Contact [sig@samtec.com](mailto:sig@samtec.com) for specific details.

SEAF	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	OPTION	K	TR
	-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)	-K = Polyimide film Pick & Place Pad (Not available with -10 and -15 pins with -LP Latch post)	

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

Due to technical progress, all designs, specifications and components are subject to change without notice.