

SEAF-30-05.0-S-08-2-A-LP-K-TR

**SEAF SERIES**

(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

**Contact Resistance:** 5.5 mΩ

**Working Voltage:** 240 VAC

**RoHS Compliant:** Yes

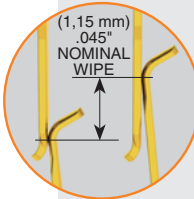
**Lead-Free Solderable:** Yes

**Mates with:**

SEAM, SEAMP,  
SEAR, SEAMI, SEAC

**Note:** Patented

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



Up to 500 pins

5, 8 and 10 row footprint compatible with SamArray®. Samples recommended.

Solder charges

Low insertion/extraction forces

SEAM/SEAF 10 mm Stack Height	Rated @ 3dB Insertion Loss	
	w/o PCB effects*	
Single-Ended Signaling	18 GHz / 36 Gbps	
Differential Pair Signaling	18 GHz / 36 Gbps	

\*Test board losses de-embedded from performance data.  
Performance data for other stack heights and complete test data available at [www.samtec.com?SEAF](http://www.samtec.com?SEAF) or contact [sig@samtec.com](mailto:sig@samtec.com)



## RECOGNITIONS

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



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 10 row and -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

**ALSO AVAILABLE (MOQ Required)**

- Polarization pin Contact Samtec.

**Industry Standards**

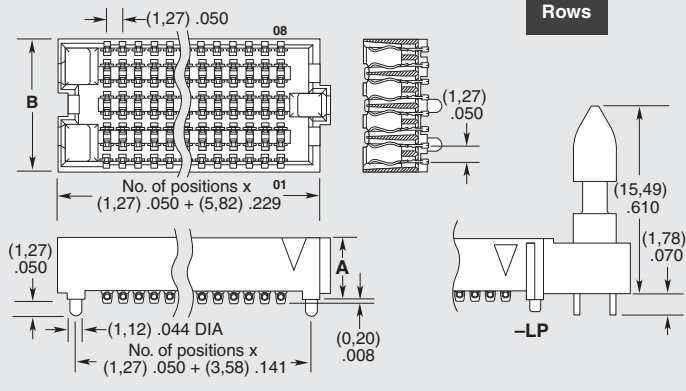
- PISMO 2
- VITA 47
- VITA 57

**Protocols Supported**

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

Download app notes at: [www.samtec.com/appnote](http://www.samtec.com/appnote)  
Contact SIG @ samtec.com for questions on protocols

SEAM LEAD STYLE	SEAF LEAD STYLE		
	-05.0	-06.0	-06.5
-02.0	7 mm	8 mm	8.5 mm
-03.0	8 mm	9 mm	9.5 mm
-03.5	8.5 mm	9.5 mm	10 mm
-06.5	11.5 mm	12.5 mm	13 mm
-07.0	12 mm	13 mm	13.5 mm
-09.0	14 mm	15 mm	15.5 mm
-11.0	16 mm	17 mm	17.5 mm



DIFFERENTIAL		ARRAY	PAIR COUNT
	40x8	80	
	40x6	60	
	30x10	75	
	30x8	60	
	30x6	45	
	20x10	50	
	20x8	40	
	20x5	25	