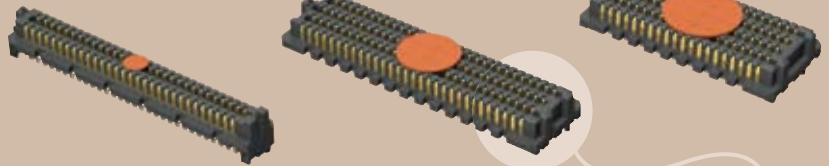




SEAM-20-02.0-S-10-2-A-K-TR



SEAM-30-03.5-S-04-2-A-K-TR

SEAM-30-02.0-S-08-2-A-K-TR

(1,27mm) .050"

SEAM SERIES

# HIGH SPEED/HIGH DENSITY OPEN PIN FIELD

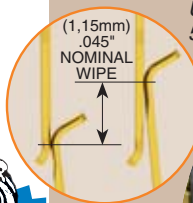
## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SEAM](http://www.samtec.com?SEAM)

- Insulator Material:** Black LCP
- Contact Material:** Copper Alloy
- Solder Charge:** 95.5% Sn, 3.8% Ag, 0.7% Cu (Tin/Lead also available. Call Samtec.)
- Operating Temp Range:** -55°C to +125°C
- Plating:** Au or Sn over 50µ" (1,27µm) Ni
- Contact Resistance:** 5.5 mΩ
- Working Voltage:** 240 VAC
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes



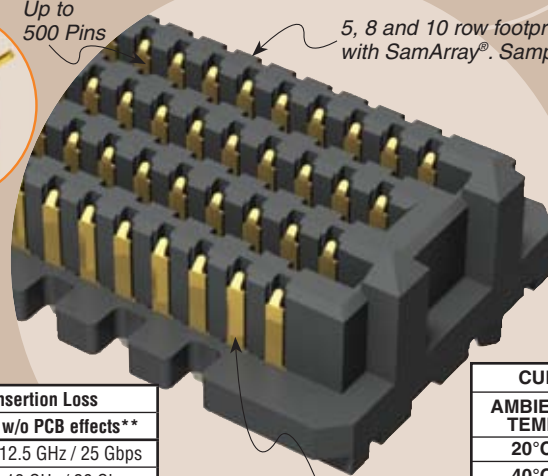
Mates with: SEAF, SEAFP



Up to 500 Pins

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

Solder charges



Low Insertion/Extraction Forces

SEAM/SEAF 7mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	9.5 GHz / 19 Gbps	12.5 GHz / 25 Gbps
Differential Pair Signaling	10.5 GHz / 21 Gbps	13 GHz / 26 Gbps

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

CURRENT RATING	
AMBIENT TEMP	SEAM/SEAF
20°C	2.3A
40°C	2A
60°C	1.75A
95°C	1.14A

30 ADJACENT POSITIONS POWERED

**Industry Standards**

- PISMO 2
- VITA 47
- VITA 57

**Protocols Supported**

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

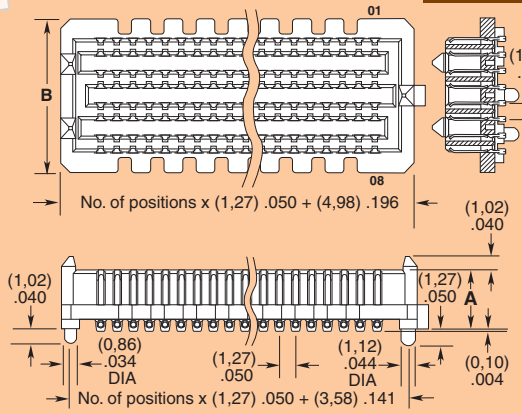
Download app notes at [www.samtec.com/appnote](http://www.samtec.com/appnote)  
Contact SIG @ samtec.com for questions on protocols

SEAM	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	TR
	-10, -15, -20, -30, -40, -50 (-10 only available in 04 row) (-15 only available in 10 row)	Specify LEAD STYLE from chart	-L = 10µ" (0,25µm) Gold on contact area, Matte Tin on solder tail -S = 30µ" (0,76µm) 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	-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		

NO. OF ROWS	B
-04	(7,06) .278
-05, -06	(9,60) .378
-08	(12,14) .478
-10	(14,68) .578

### DIFFERENTIAL

ARRAY	PAIR COUNT
40x8	80
40x6	60
30x10	75
30x8	60
30x6	45
50x10	125
50x8	100
40x10	100
20x10	50
20x8	40
20x5	25



LEAD STYLE	A
-02.0	(4,60) .181
-03.0	(5,59) .220
-03.5	(6,10) .240
-06.5	(6,40) .252
-07.0	(9,60) .378
-09.0	(11,60) .457
-11.0	(13,60) .535

10 year Mixed Flowing Gas with 30µ" Gold  
Call Samtec for maximum cycles mated with SEAF

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

Note: 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.

WWW.SAMTEC.COM