

(1,27 mm) .050"

HIGH SPEED/HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see 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

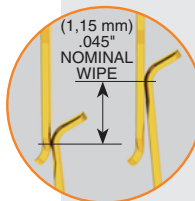
Lead-Free Solderable: Yes

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 or contact sig@samtec.com

FinalInch®
CERTIFIED | 28+ Gbps
Patent Pending

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

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

Contact SIG @ samtec.com

for questions on protocols

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)	

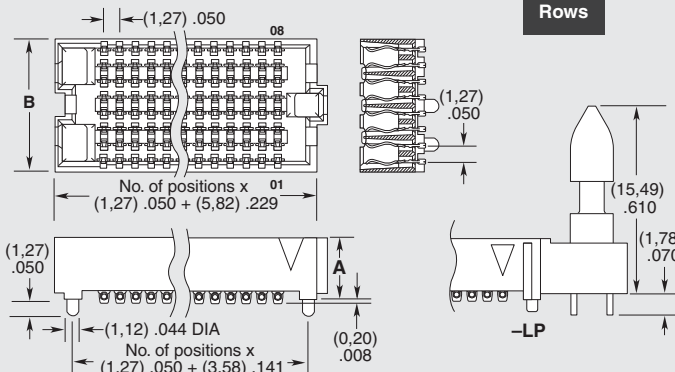
NO. OF ROWS	B
-04	(5,66) .223
-05, -06	(8,20) .323
-08	(10,74) .423
-10	(13,28) .523

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.

MATED HEIGHTS			
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