



(1,27 mm) .050"

SEAM SERIES

HIGH SPEED/HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SEAM

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

50µ" (1,27 µm) Ni

Contact Resistance: 5.5 mΩ

Working Voltage: 240 VAC

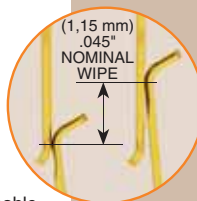
RoHS Compliant: Yes

Lead-Free Solderable: Yes

Mates with:
SEAF, SEAFP

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?SEAM or contact sig@samtec.com



RECOGNITIONS

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



Industry Standards

PISMO 2
VITA 47
VITA 57

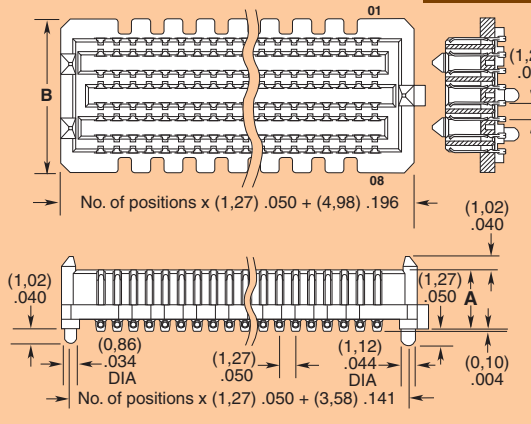
Protocols Supported

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

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" (0,25 µm) Gold on contact area, Matte Tin on solder tail -S = 30µ" (0,76 µm) 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	-1 = Tin/Lead Alloy Solder Charge -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



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

DIFFERENTIAL

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

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

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

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