

# samtec

## SEARAY™

OPEN PIN FIELD INTERCONNECTS

(1,27mm) .050"

SEAF SERIES

SEAF-30-06.5-S-08-2-A-LP-K-TR

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

# 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

### 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



FILE NO. E111594

Mates with:  
SEAM, SADL,  
SEAMP, SEAR,  
SEAMI,  
SEAC  
(Requires -LP)

Up to  
500 PinsLow Insertion/  
Extraction Forces

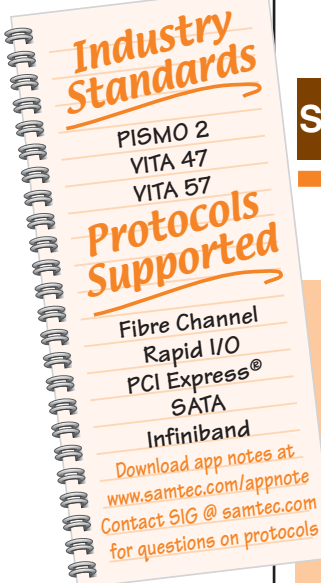
5, 8 and 10 row footprint  
compatible with SamArray®.  
Samples recommended.

Solder  
charges

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	

7mm Stack Height	Rated @ 3dB Insertion Loss
Single-Ended Signaling	9.5 GHz / 19 Gbps
Differential Pair Signaling	10.5 GHz / 21 Gbps

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)



SEAF - NO. PINS PER ROW - LEAD STYLE - PLATING OPTION - NO. OF ROWS - 2 - A - OPTION - 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

LEAD STYLE	A
-05.0	(5,05) .199
-06.0	(6,05) .238
-06.5	(6,55) .258
-07.5	(7,54) .297
-08.0	(8,05) .317

NO. OF ROWS	B
-04.0	(5,61) .221
-05, -06	(8,20) .323
-08	(10,69) .421
-10	(13,23) .521

-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

-05  
= Five  
Rows

-06  
= Six  
Rows

-08  
= Eight  
Rows

-10  
= Ten  
Rows

-2  
= Lead-Free  
Solder Charge

-LP  
= Latch Post  
(-LP required  
for SEAC mate only)

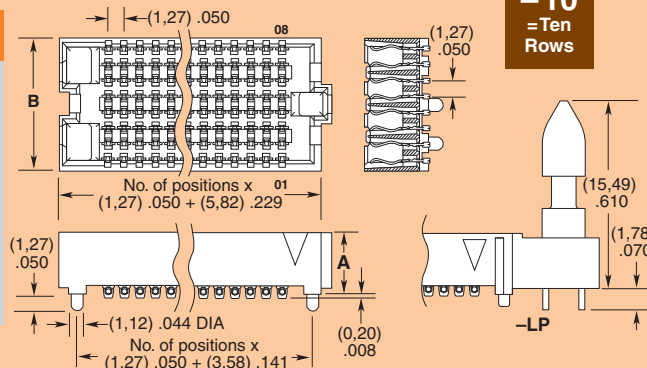
## ALSO AVAILABLE

Rugged solder crimp option.  
Call Samtec.

## DIFFERENTIAL

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

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



MATED HEIGHTS					
SEAM LEAD STYLE	-05.0	-06.0	-06.5	-07.5	-08.0
-02.0	7mm	8mm	8.5mm	9.5mm	10mm
-03.0	8mm	9mm	9.5mm	10.5mm	11mm
-03.5	8.5mm	9.5mm	10mm	11mm	11.5mm
-06.5	11.5mm	12.5mm	13mm	14mm	14.5mm
-07.0	12mm	13mm	13.5mm	14.5mm	15mm
-09.0	14mm	15mm	15.5mm	16.5mm	17mm
-11.0	16mm	17mm	17.5mm	18.5mm	19mm

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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292 SAMTEC ISRAEL • Tel: 972-3-7526600  
SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-61103766 SAMTEC TAIWAN • Tel: 886-2-2735-6109  
6904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9512 7747 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112

# samtec

## SEARAY™

OPEN PIN FIELD  
INTERCONNECTS

(1,27mm) .050"

SEAF-RA SERIES

SEAF-20-01-L-04-2-RA-TR

SEAF-20-01-L-06-2-RA-GP-TR

# HI-DENSITY RIGHT ANGLE OPEN PIN FIELD

## SPECIFICATIONS

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

### Insulator Material:

Black LCP

### Contact Material:

Copper Alloy

### Current Rating:

2.1 A with 4 adjacent

contacts powered

### Operating Temp Range:

-55°C to +125°C

### Plating:

Au or Sn over 50µ" (1,27µm) Ni

### Contact Resistance:

17.1 mΩ max

### Working Voltage:

280 VAC

### Mated Cycles:

100

### RoHS Compliant:

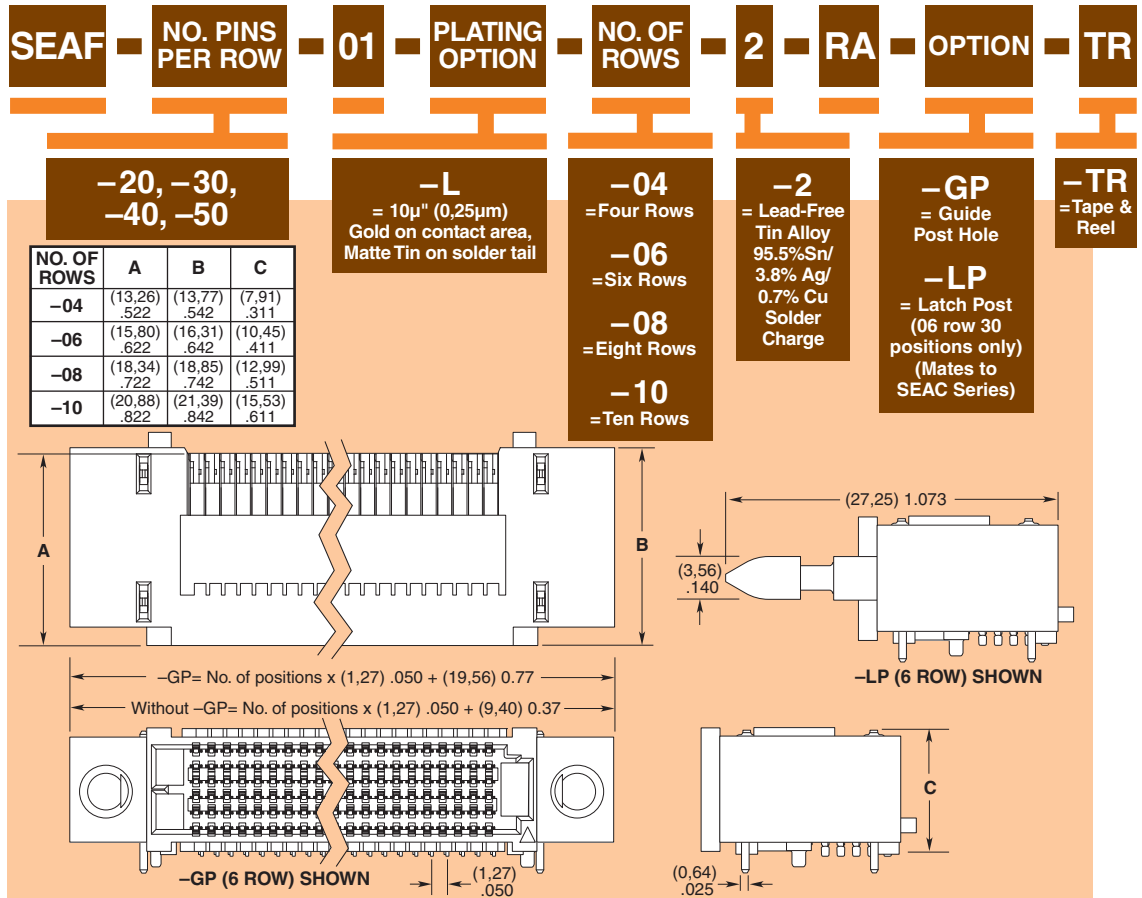
Yes

### Lead-Free Solderable:

Yes



Mates with:  
SEAM, SADL,  
SEAC (Requires -LP)

Up to  
300 PinsLow Insertion/  
Extraction ForcesOptional  
Guide Post holesLead-Free Solder  
Charge Terminations  
(Tin/Lead also available)

**Note:** Other Gold plating options available. Contact Samtec.

**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](http://WWW.SAMTEC.COM)

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
 SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
 SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292 SAMTEC ISRAEL • Tel: 972-3-7526600  
 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-61103766 SAMTEC TAIWAN • Tel: 886-2-2735-6109  
 6904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9512 7747 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112