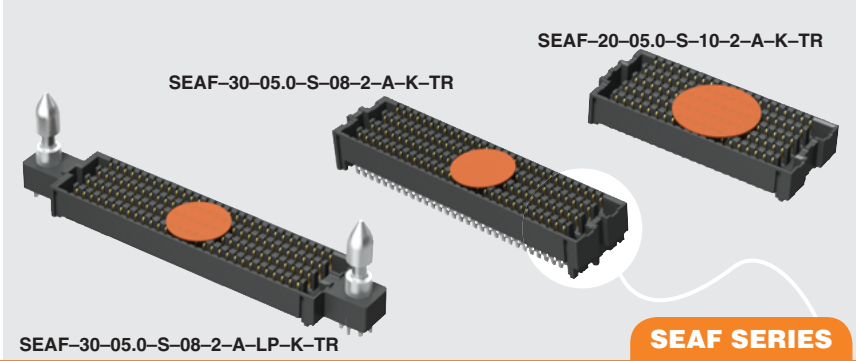
samtec

SEARAY™

(1,27 mm) .050"



SEAF SERIES

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

RECOGNITIONS

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

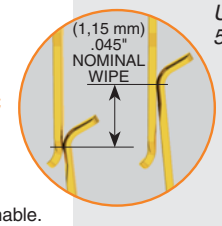
FILE NO. E111594

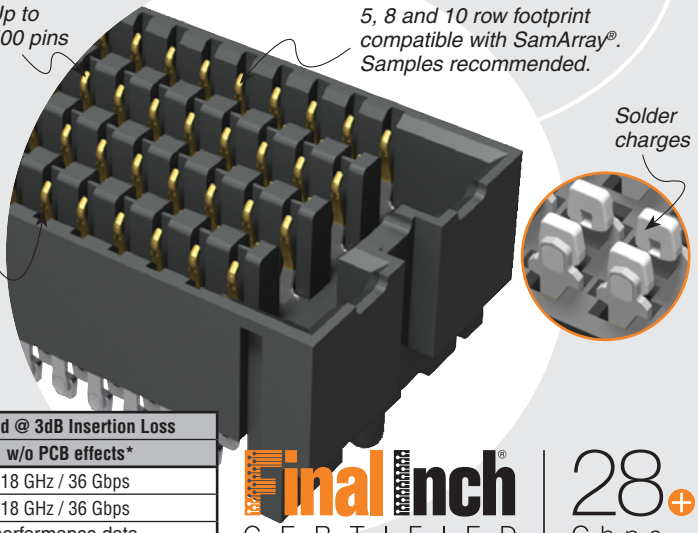
Mates with:
SEAM, SEAMP, SEAR, SEAMI, SEAC

Note: Patented

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

E.L.P.™
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles





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 Patent Pending | 28+ Gbps

SEAF - NO. PINS PER ROW - LEAD STYLE - PLATING OPTION - NO. OF ROWS - SOLDER TYPE - A - OPTION - K - TR

NO. PINS PER ROW: –10, –15, –20, –30, –40, –50
(–10 only available in 04 row)
(–15 only available in 10 row and –05.0 lead style)

LEAD STYLE: Specify LEAD STYLE from chart

PLATING OPTION:
–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

NO. OF ROWS:
–04 = Four Rows
–05 = Five Rows
–06 = Six Rows
–08 = Eight Rows
–10 = Ten Rows

SOLDER TYPE:
–1 = Tin/Lead Alloy Solder Charge
–2 = Lead-Free Solder Charge

OPTION:
–LP = Latch Post (–LP required for SEAC mate only) (Available with –05.0 lead style and –04, –06, –08 & –10 rows only)

K:
–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

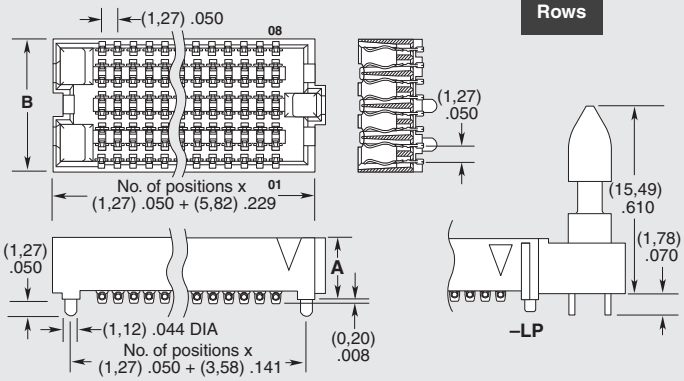
LEAD STYLE	A
–05.0	(5,05) .199
–06.0	(6,05) .238
–06.5	(6,55) .258

ALSO AVAILABLE (MOQ Required)

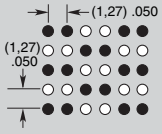
- Polarization pin Contact Samtec.

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
Contact SIG @ samtec.com for questions on protocols

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
50x10	125
50x8	100
40x10	100

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

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