#### RECOMMENDED PCB LAYOUT FOR SEAF-XX-XX-XX-XX-RA-XX-XX **REVISION S** 10/21/2020 | ECN-396288 (APPLIES TO -GP OPTION) CONNECTOR OUTLINE $\emptyset.045[1.14]$ PTH (4 PLCS) .117 [2.97] .143 [3.63] (REF) (SEE NOTE 1) ADDITIONAL CONNECTOR OUTLINE (SEE NOTE 3) (SEE NOTE 3) APPLIES TO -GP OPTION .085[2.15] -.050[1.27] (TYP) A1<sub>1</sub> FRONT EDGE OF PRINTED CIRCUIT .230 [5.84] **BOARD** .085 [2.16] .173 [4.38] (APPLIES TO -GP OPTION) 60000000000000000 000000000000000000 00000000000000000 .050[1.27] 000000000000000000 $\oplus$ 000000000000000000000 "J" EQ. SPCS @ .050[1.27] = "K" F1 "D" EQ. SPCS @ .050[1.27] = "A" Ø.050[1.27] NPTH (2 PLCS) TABLE 3 FIG 1 TABLE 1 No. OF SEAF-20-01-S-06-X-RA ROWS "B" "C" "J" "K" "N" "P" No. OF (ALL DIMENSIONS ARE SYMMETRIC ABOUT PER POS THE CENTERLINE EXCEPT "A" DIMENSION) POS. STYLE "G" "H" "Q" -04 .542 [13.77] .315 [8.00] 2 100 [2.54] .050 [1.27] .542 [13.77] PER -06 .642 [16.31] .415 [10.54] 4 .200 [5.08] .082 [2.08] .502 [12.75] ROW -08 .742 [18.85] .415 [10.54] 6 .300 [7.62] .082 [2.08] .642 [16.31] -20 1.370 [34.80] 1.770 [44.96] -10 .842 [21.39] .415 [10.54] .400 [10.16] .082 [2.08] .642 [16.31] \$ STANDARD -30 1.870 [47.50] 2.270 [57.66] WITH - GP TABLE 2 2.370 [60.20] 2.770 [70.36] -40 **OPTION SURFACE** -50 2.870 [72.90] 3.270 [83.06] No. OF MOUNT N/A .008[0.20] "D" "F" "F" "M" "A" -20 1.370 [34.80] PAD POS WITHOUT -30 1.870 [47.50] -20 .950 [24.13] 19 1.210 [30.73] 1.290 [32.77] 1.310 [33.27] FULL R.013 [0.32] N/A -GP OPTION -40 2.370 [60.20] -30 29 1.710 [43.43] 1.790 [45.47] 1.810 [45.97] 1.450 [36.83] .025 [0.64] (TYP) -50 2.870 [72.90] -40 1.950 [49.53] 39 2.210 [56.13] 2.290 [58.17] 2.310 [58.67] -20 1.790 [45.47] 2.000 [50.80] -50 2.450 [62.23] 2.710 [68.83] 2.790 [70.87] 2.810 [71.37] WITH -LP -30 2.290 [58.17] 2.500 [63.50]

NOTES: .050 [1.27] REF

1. TO BE SOLDERED USING PASTE IN HOLE TECHNOLOGY.

2. FOR 8 & 10 ROW PARTS, THE USE OF A PROCESSING FIXTURE IS REQUIRED.
REFERENCE THE ASSEMBLY PRINT AND WWW.SAMTEC.COM/SEARAYFIXTURE
FOR THE APPROPRIATE FIXTURE PART NUMBER AND ADDITIONAL FIXTURE INFORMATION.

3. THESE DIMENSIONS ARE NOT SYMMETRIC ABOUT THE CENTERLINE.

4. A 20~30°C TEMPERATURE DIFFERENCE MAY EXIST BETWEEN THIS HIGH-DENSITY COMPONENT AND THE BOARD SURFACE DURING REFLOW. SAMTEC RECOMMENDS A THERMAL STUDY BE PERFORMED TO UNDERSTAND THE TEMPERATURE GRADIENTS YOU MAY EXPERIENCE.

5. FOR APPLICATIONS REQUIRING INVERTED REFLOW SOLDERING, USE OF AN EPOXY ADHESIVE IS RECOMMENDED.

<ul> <li>PROPRIETARY NOTE</li> </ul>	DIE	
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**OPTION** 

3.000 [76.20]

3.500 [88.90]

2.790 [70.87]

3.290 [83.57]

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N/A

520 PARK FAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code: 55322 SHEET 1 OF 4

# RECOMMENDED PCB LAYOUT FOR SEAF-XX-XX-XX-XX-RA-XX-XX

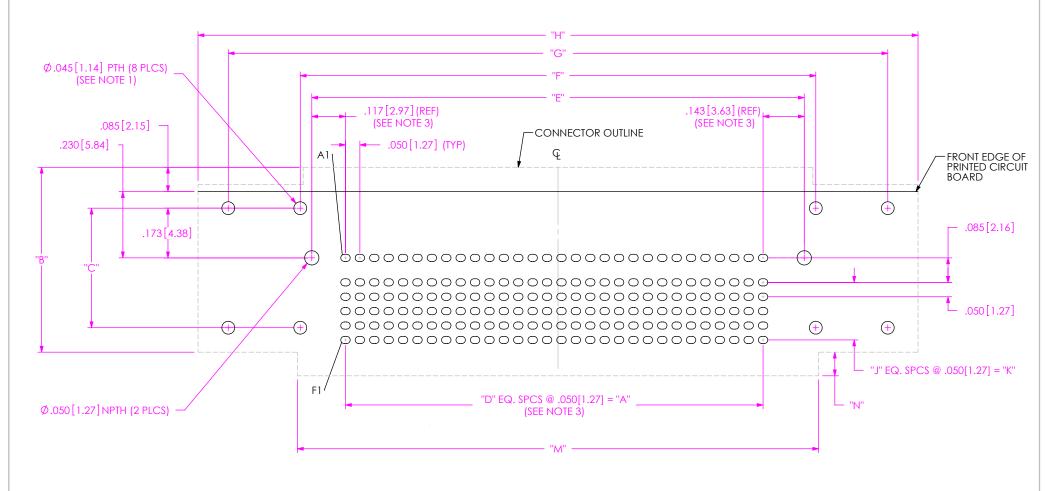


FIG 2 SEAF-30-01-S-06-X-RA-LP (SAME AS FIG 1, UNLESS OTHERWISE STATED) (ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE)

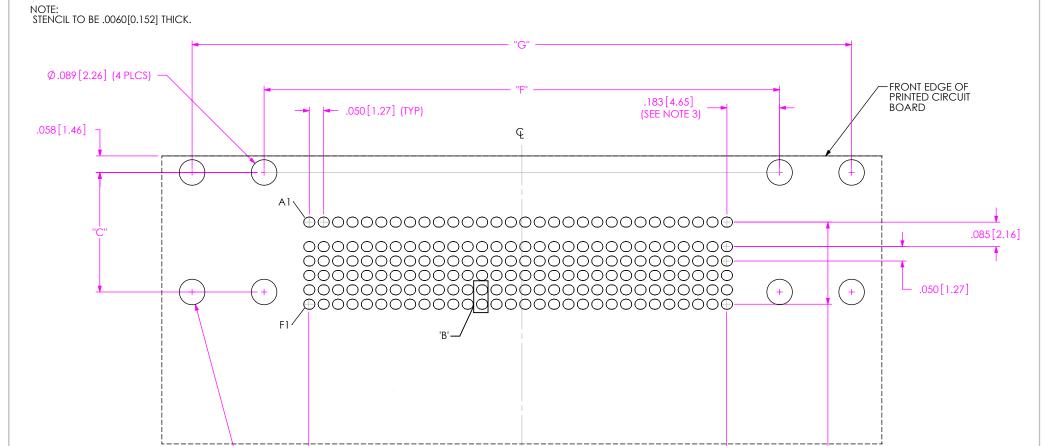
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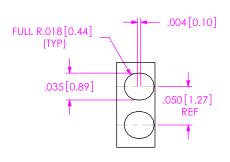
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Ø.089 [2.26] (4 PLCS)

(APPLIES TO -LP OPTION ONLY)

FIG 3 SEAF-30-01-S-06-X-RA-LP (ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE)

"D" EQ. SPCS @ .050[1.27] = "A"

(SEE NOTE 3)

DETAIL 'B' SCALE 8:1

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"J" EQ. SPCS @0.50[1.25]= 'K'

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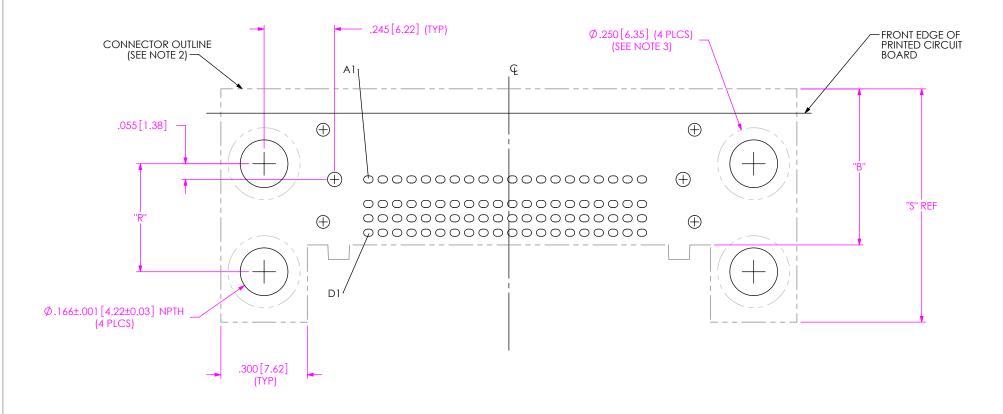


FIG 4
GPK-XX OPTION
(SEAF-20-01-S-04-X-RA GPK-01 SHOWN)
(SAME AS STANDARD, UNLESS OTHERWISE STATED)
(NOT AVAILABLE WITH -GP & -LP OPTION)
(STENCIL LAYOUT SAME AS STANDARD)

TABLE 4				
	"R"	"S"		
-GPK-01	.375 [9.53]	.810 [20.57]		
-GPK-02	.800 [20.32]	1.260 [32.00]		

#### NOTES:

- 1. DIMENSIONS ARE SYMMETRICAL ABOUT THE CENTER LINE UNLESS NOTED.
- 2. CONNECTOR ENVELOPE DIMENSIONS; OTHER
- COMPONENTS PLACED ON PCB SHALL AVOID THIS ZONE.

  3. METRIC SCREW ENVELOPE ON BOTTOM SIDE OF PCB;
- 3. METRIC SCREW ENVELOPE ON BOTTOM SIDE OF PCB; OTHER COMPONENTS PLACED ON PCB SHALL AVOID THIS ZONE.

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