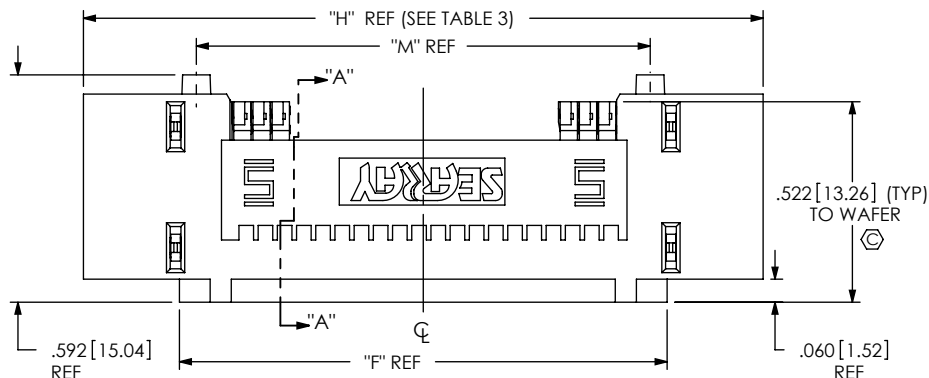


DO NOT
SCALE FROM
THIS PRINT



SEAF-XX-XX-X-XX-X-RA-XX-TR

No OF POSITIONS
-20, -30, -40, -50
(PER ROW)

LEAD STYLE
-01

PLATING SPECIFICATION
-S: SELECTIVE GOLD,
30μ GOLD, MATTE TIN ON TAILS
(USE SUB-IM-C-242-XX-S-X)
-L: LIGHT SELECTIVE GOLD,
10μ GOLD, MATTE TIN ON TAILS
(USE SUB-IM-C-242-XX-L-X)

No OF ROWS
-04, *-06, *-08, *-10
(* = SEE NOTE 8)

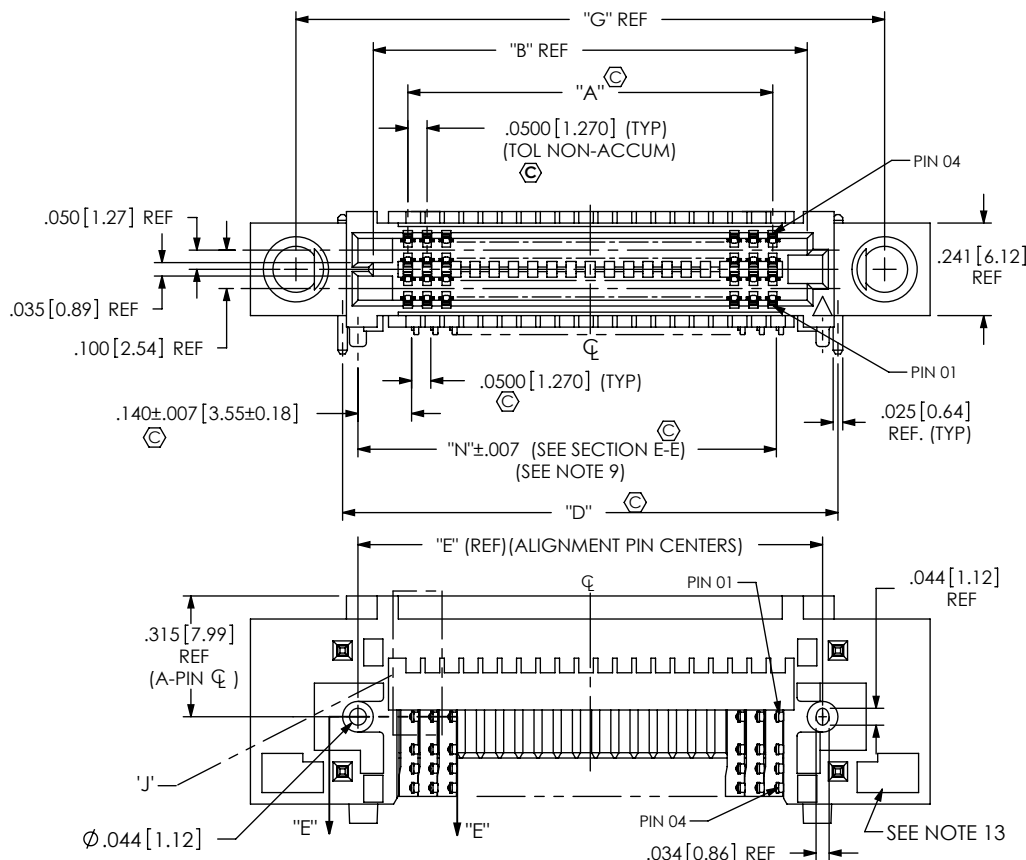
PACKAGING
-TR: TAPE & REEL
(STANDARD PACKAGING)
(SEE NOTE 4 & 7)

OPTIONS
-GP: GUIDE POST HOLE
-LP: LATCH POST
(USE WITH SEAC ONLY)
(-06 ROW ONLY)
(NOT AVAILABLE WITH -GP OPTION)
-K: KAPTON PAD

RIGHT ANGLE
-RA

SOLDER COMPOSITION
& STYLE

-1: 63% TIN / 37% LEAD CHARGE TAIL
(USE SUB-IM-C-242-XX-XX-X-1)
-2: 95.5% TIN / 3.8 SILVER / 0.7% COPPER
LEAD FREE CHARGE TAIL
(USE SUB-IM-C-242-XX-XX-X-2)



"G"

"G"

(SEE SHT. 2)

TABLE 3						
STYLE	No. OF POS PER ROW	"G"		"H"		"J"
STANDARD WITH -GP OPTION	-20	1.533	[38.94]	1.770	[44.96]	N/A
	-30	2.033	[51.64]	2.270	[57.66]	
	-40	2.533	[64.34]	2.770	[70.36]	
	-50	3.033	[77.04]	3.270	[83.06]	
WITHOUT -GP OPTION	-20	N/A		1.370	[34.80]	N/A
	-30	N/A		1.870	[47.50]	
	-40	N/A		2.370	[60.20]	
	-50	N/A		2.870	[72.90]	
WITH-LP OPTION	-20	1.533	[38.94]	1.900	[48.26]	1.790 [45.47]
	-30	2.033	[51.64]	2.400	[60.96]	2.290 [58.17]
	-40	2.533	[64.34]	2.900	[73.66]	2.790 [70.10]
	-50	3.033	[77.04]	3.400	[86.36]	3.290 [83.57]

TABLE 2				
No. OF ROWS	"BODY CALLOUT"	"SOCKET WAFER"	"WELD TAB"	"C"
-04	SEAF-XX-01-RA-04-XX	SUB-IM-C-242-01-04-X-X	WT-28-01-T	0.315 [8.00]
*-06	SEAF-XX-01-RA-06-XX	SUB-IM-C-242-01-06-X-X	WT-28-02-T	0.415 [10.54]
*-08	SEAF-XX-01-RA-08-XX	SUB-IM-C-242-01-08-X-X	WT-28-02-T	0.415 [10.54]
*-10	SEAF-XX-01-RA-10-XX	SUB-IM-C-242-01-10-X-X	WT-28-02-T	0.415 [10.54]

(* = SEE NOTE 8)

TABLE 1						
No. OF POS. PER ROW	"A"	"B"	"D"	"E"	"F"	"N"
-20	0.950 [24.13]	1.130 [28.70]	1.290 [32.77]	1.210 [30.73]	1.270 [32.26]	1.090 [27.69]
-30	1.450 [36.83]	1.630 [41.40]	1.790 [45.47]	1.710 [43.43]	1.770 [44.96]	1.590 [40.39]
-40	1.950 [49.53]	2.130 [54.10]	2.290 [58.17]	2.210 [56.13]	2.270 [57.66]	2.090 [53.09]
-50	2.450 [62.23]	2.630 [66.80]	2.790 [70.87]	2.710 [68.83]	2.770 [70.36]	2.590 [65.79]

TABLE 4					
No. OF ROWS	"M"				"BACK STRAP"
	20 POS	30 POS	40 POS	50 POS	
-04	1.182 [30.02]	1.682 [42.72]	2.182 [55.42]	2.682 [68.12]	N/A
*-06, *-08 & *-10	N/A	N/A	N/A	N/A	SEAX-RA-BS-XX-01

(* = SEE NOTE 8)

NOTES:

1. REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSH-OUT FORCE: .50 LBS [2.2N].
3. INSPECT DIMENSION AT FIRST POSITION WAFER LOCATION ONLY, FIRST AND LAST PIN.
4. ONLY FULL REEL QUANTITIES ARE SHIPPED ON A REEL WITH LEADER AND TRAILER.
5. NOTE DELETED
6. NOTE DELETED
7. ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
8. ON -06, -08 & -10 ROW ASSEMBLIES, SEE FIG 10, SHEET 5 FOR CAT FIXTURE VIEW.
9. CHECK DIMENSION ON FIRST AND LAST ROW OF TAILS.
10. 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.
11. SOME RELAXATION/WARPING OF THE BACK STRAP IS ACCEPTABLE AFTER PROCESSING.
12. SEE SHEET 5 FOR PROCESSING INFORMATION.
13. VOID PATTERN MAY VARY BY ROW AND END OPTION.

FIG 1
(SEAF-20-0T-X-04-X-RA-GP)
(SOME DETAIL OMITTED FOR CLARITY)

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES
.XX: ±.01 [.3] 2°
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

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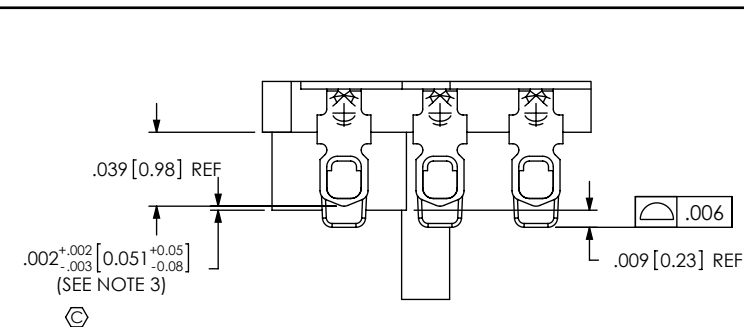
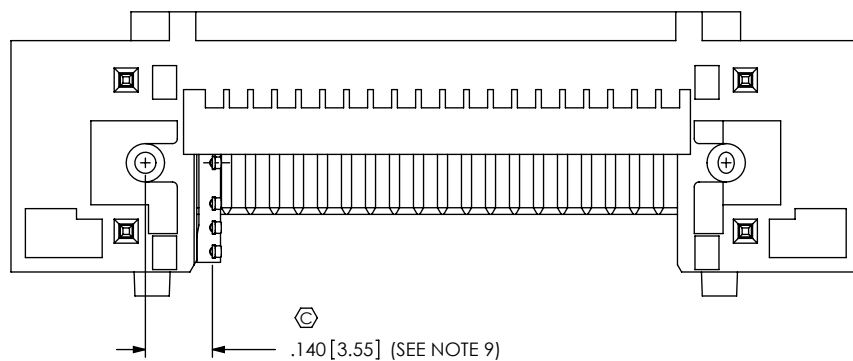
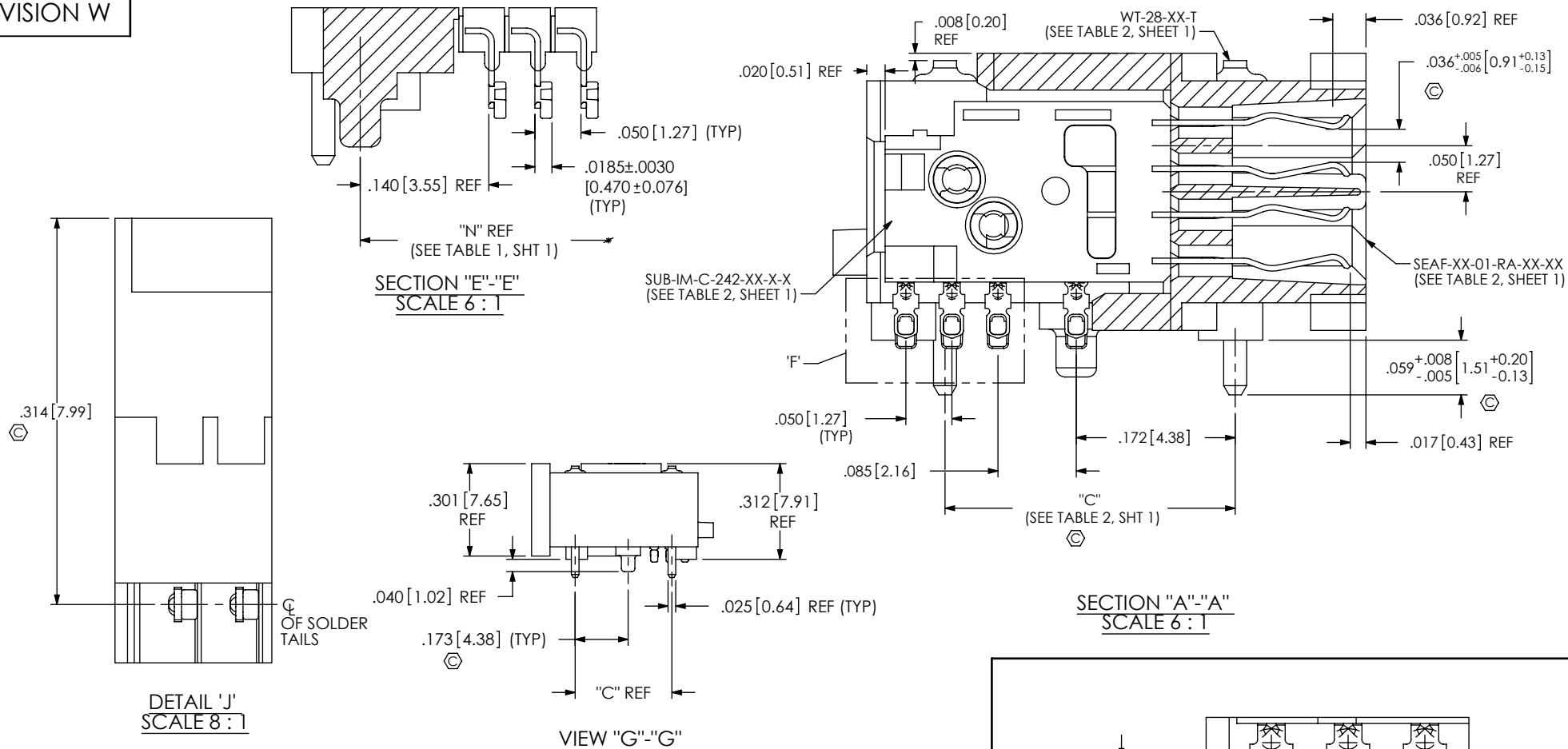
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CONTACT: PHOS BRONZE .006 THICK

SHEET SCALE: 2:1

DESCRIPTION:
SEAF-RA ASSEMBLY

DWG. NO.
SEAF-XX-XX-X-XX-X-RA-XX-TR

BY: C. PIERCE 12/15/2007 SHEET 1 OF 5



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REVISION W

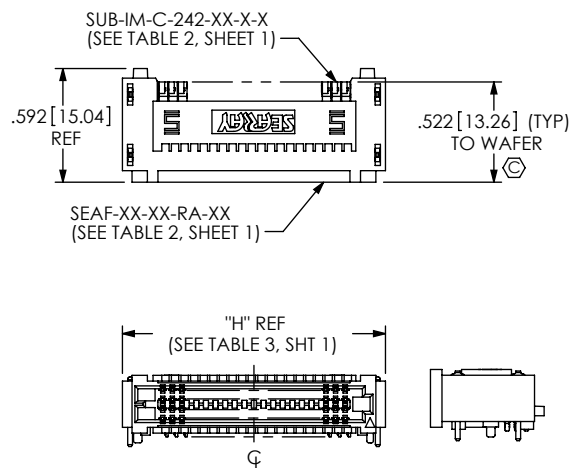


FIG 2
(SEAF-20-01-X-04-X-RA SHOWN)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

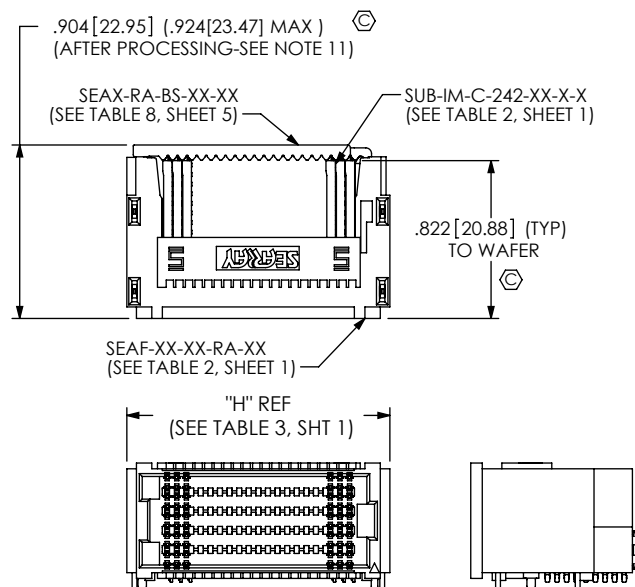


FIG 9
(SEAF-20-01-X-T0-X-RA SHOWN)
(SAME AS FIG 4 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

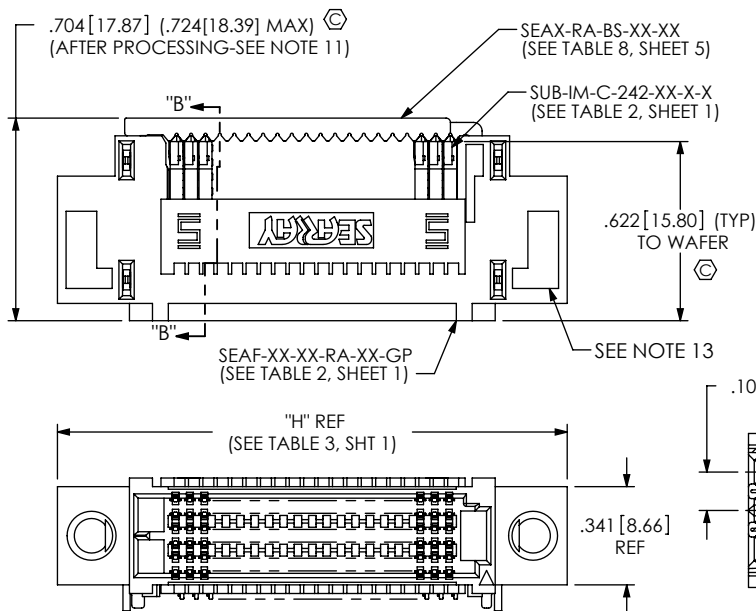


FIG 3
(SEAF-20-01-X-06-X-RA-GP)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)

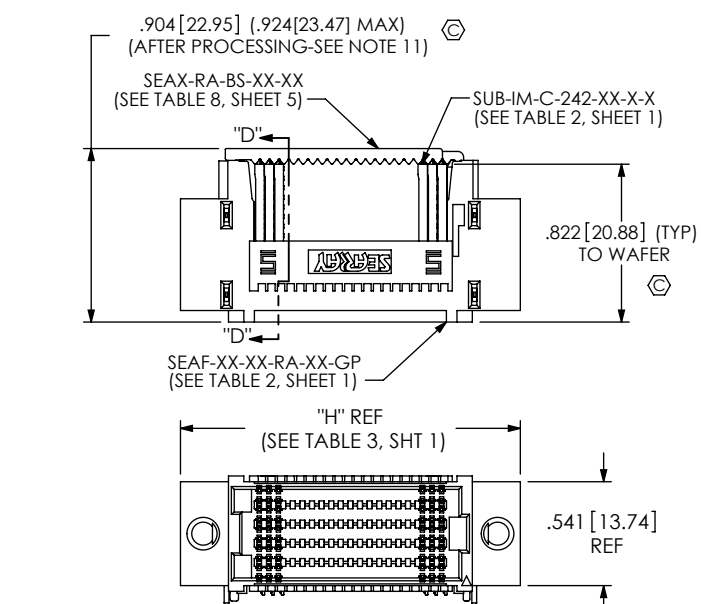
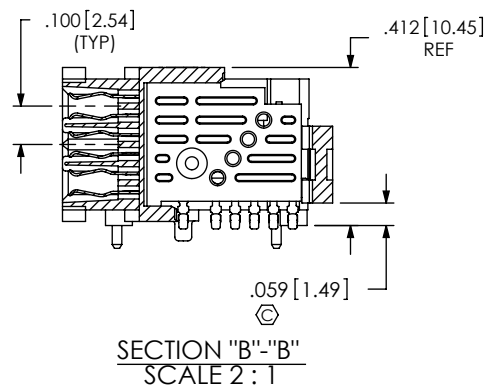
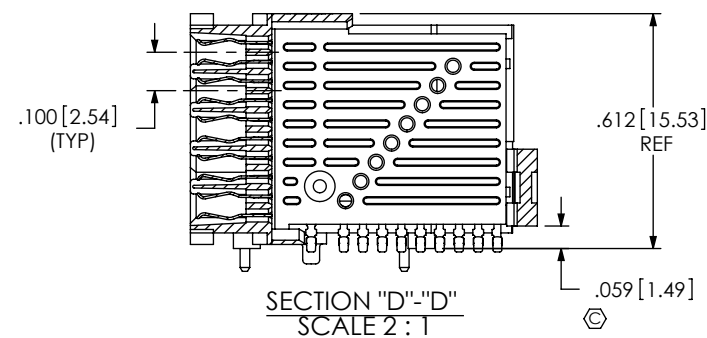


FIG 4
(SEAF-20-01-X-T0-X-RA-GP)
(SAME AS FIG 1 EXCEPT AS NOTED)
(SOME DETAIL REMOVED FOR CLARITY)



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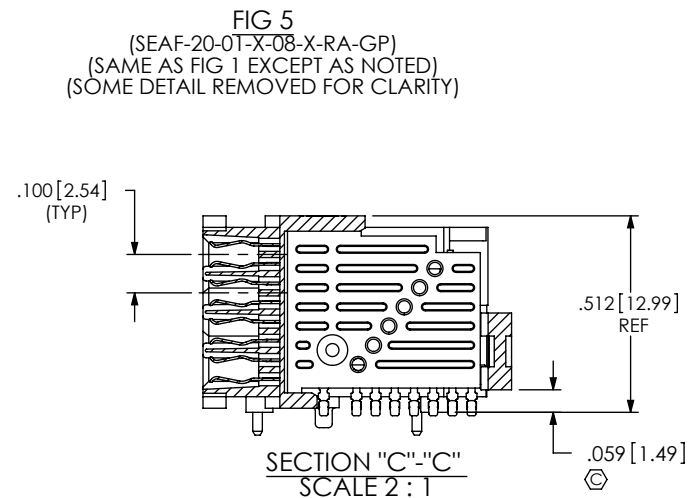
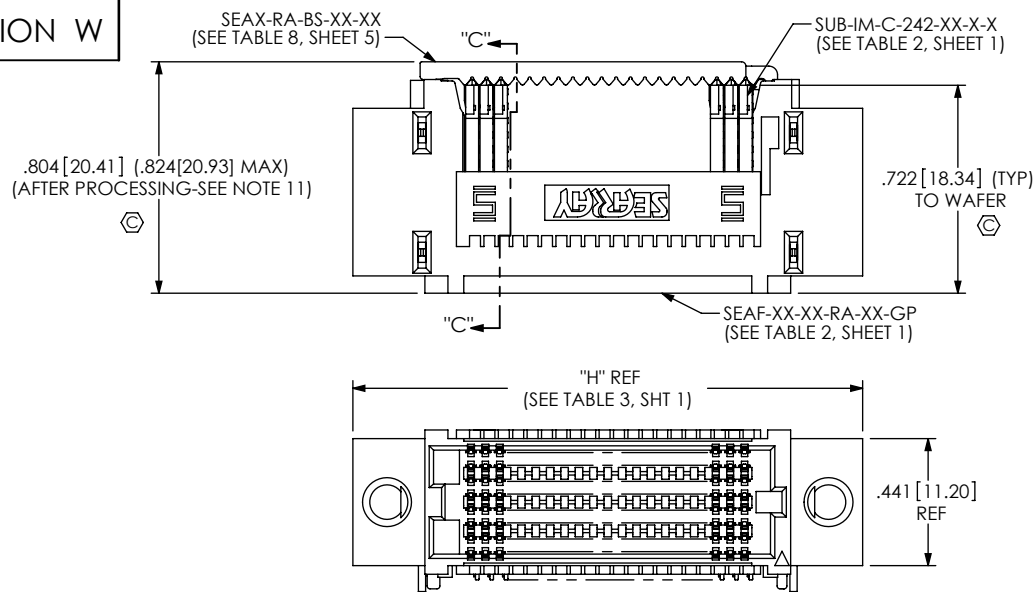
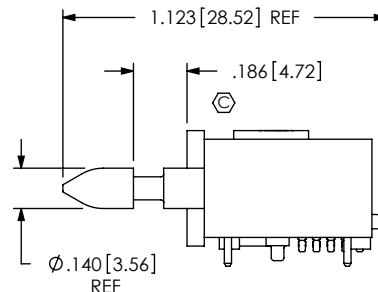


FIG 6
(SEAF-30-0T-X-06-X-RA-LP)
(SOME DETAIL OMITTED FOR CLARITY)
(SAME AS FIG 3 EXCEPT AS SHOWN)



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<p>SHEET SCALE: 1:1</p>	<p>DWG. NO. SEAF-XX-XX-X-XX-X-RA-XX-TR</p>
<p></p>	<p>BY: C. PIERCE 12/15/2007 SHEET 4 OF 5</p>

ROWS	TABLE 5																
	"L"		"P" Φ		"K" NO -GP OPTION				"K" WITH -GP OPTION				"K" WITH -LP OPTION				"Q"
					20 POS	30 POS	40 POS	50 POS	20 POS	30 POS	40 POS	50 POS	20 POS	30 POS	40 POS	50 POS	
-04	.276	[7.01]	.295	[7.49]	.538 [13.65]	.788 [20.00]	1.038 [26.35]	1.288 [32.70]	.738 [18.73]	.988 [25.08]	1.238 [31.43]	1.488 [37.78]	N/A	N/A	N/A	N/A	.124 [3.15]
-06	.376	[9.55]	.295	[7.49]	.538 [13.65]	.788 [20.00]	1.040 [26.40]	1.288 [32.70]	.738 [18.73]	.988 [25.08]	1.238 [31.43]	1.488 [37.78]	.803 [20.38]	1.053 [26.73]	1.303 [33.08]	1.553 [39.43]	.124 [3.15]
-08	.483	[12.27]	.649	[16.48]	.361 [9.16]	.611 [15.51]	.861 [21.86]	1.111 [28.21]	.561 [14.24]	.811 [20.59]	1.061 [26.94]	1.311 [33.29]	N/A	N/A	N/A	N/A	.030 [0.76]
-10	.583	[14.81]	.649	[16.48]	.361 [9.16]	.611 [15.51]	.861 [21.86]	1.111 [28.21]	.561 [14.24]	.811 [20.59]	1.061 [26.94]	1.311 [33.29]	N/A	N/A	N/A	N/A	.030 [0.76]

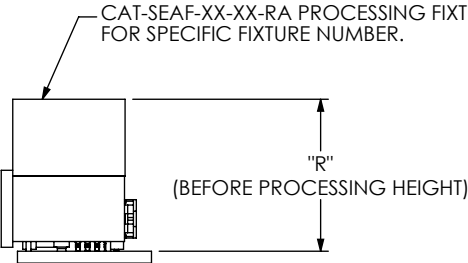
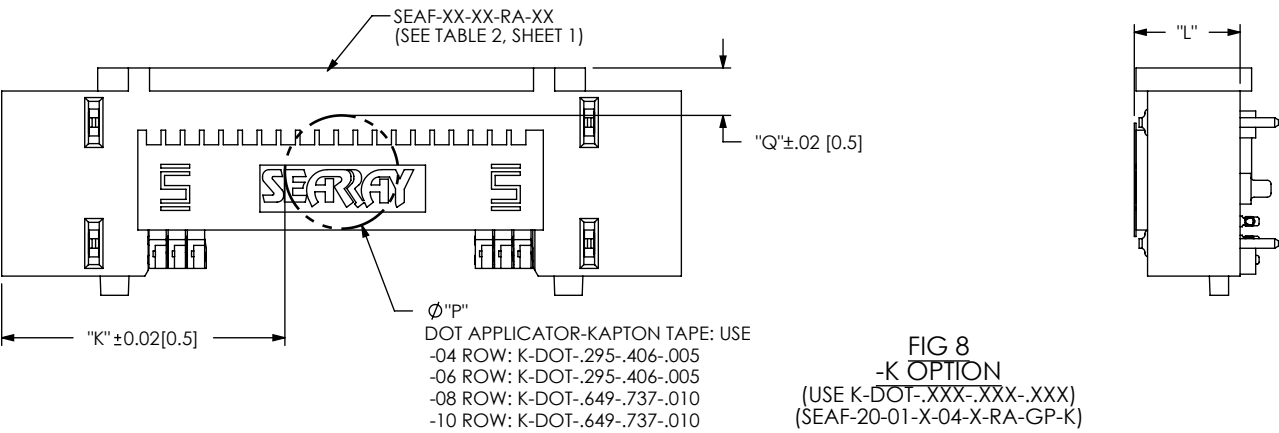


TABLE 7	
ROW	"R"
-04	N/A
** -06	.792 [20.12]
-08	.892 [22.66]
-10	.992 [25.20]

(** = NOT ENGINEERING APPVD)

NOTE:
FIG 8, DIMENSION "R" INDICATES CONNECTOR/FIXTURE HEIGHT ON PCB.
TO GUARANTEE ENOUGH REFLOW OVEN WORKING SPACE, DIMENSION "R",
PCB THICKNESS, AND THE HEIGHT OF THE COMPONENTS ON THE OPPOSITE
SIDE OF THE BOARD NEED TO BE CONSIDERED.

TABLE 9		
SEARAY™ FIXTURE TOOLS		
PART NUMBER	POSITIONS	ROW
CAT-SEAF-20-01-RA	20	-08 AND -10
CAT-SEAF-30-01-RA	30	-08 AND -10
CAT-SEAF-40-01-RA	40	-08 AND -10
CAT-SEAF-50-01-RA	50	-08 AND -10

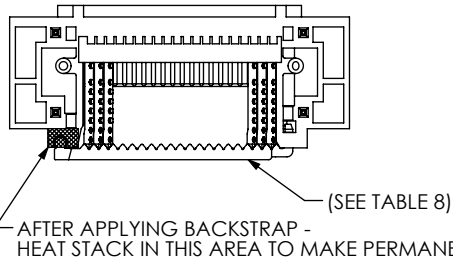


TABLE 8	
No. OF POSITIONS	"BACKSTRAP"
-20	SEAX-RA-BS-20-01
-30	SEAX-RA-BS-30-01
-40	SEAX-RA-BS-40-01
-50	SEAX-RA-BS-50-01

FIG 11
HEAT STAKING BACKSTRAP

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