

DO NOT SCALE FROM THIS PRINT

SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR

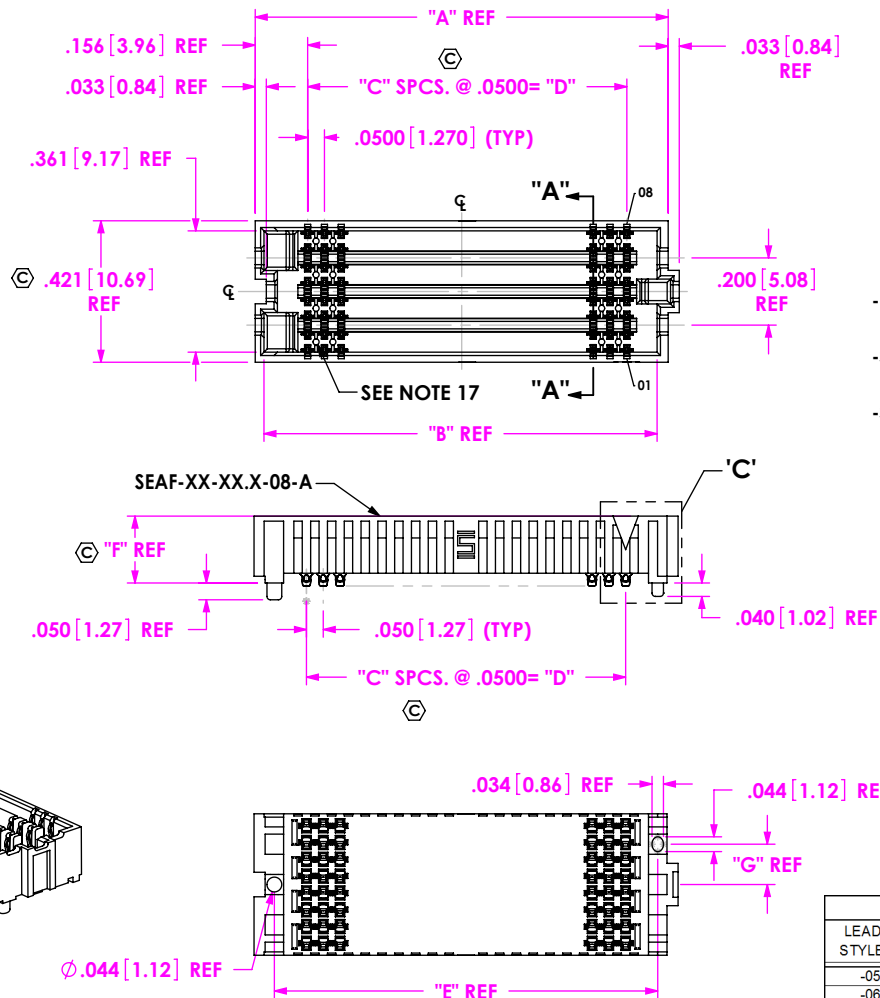


FIG 1  
-08: 8 ROW  
(SEAF-20-05.0-XX-08-1-A-XX-K-TR SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

NOTES:

1. (C) REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: 0.50 LBS.
3. NOTE DELETED.
4. 5 ROW SOLDER TAILS ARE NOT SYMMETRICAL WITH BODY WIDTH - DIM .321 [8.15]. (SEE SHEET 3, FIG. 5).
5. WHEN APPLICABLE, DIMENSION C12 MUST BE MEASURED USING INSPECTION FIXTURE AT-1817-836-1 FOR -04 ROW, OR AT-1817-836-2 FOR -06, -08 & -10 ROW. USE CO-AU-WI-2003-M FOR PROCESS.
6. WITHOUT -A AVAILABLE FOR EXISTING CUSTOMERS ONLY AS OF REVISION Y.
7. K-DOT WILL BE SUPPLIED WHETHER OR NOT -K IS SPECIFIED.
8. TAPE & REEL WILL BE SUPPLIED WHETHER OR NOT -TR IS SPECIFIED.
9. FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR REEL WILL BE SUPPLIED.
10. FOR QUANTITIES OF 50 - 124 PIECES, NO LEADER OR TRAILER WILL BE SUPPLIED. SPLICES MAY BE PRESENT.
11. ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
12. SOLDER CHARGE VOLUME IS .00000891 CUBIC INCHES (REF).
13. FOR VITA REQUIREMENTS, -A PIN SHOULD NOT BE ORDERED.
14. SLOT ORIENTATION MUST BE AS SHOWN.
15. MAXIMUM ROW TO ROW VARIATION .003[0.08], MEASURED FIRST & LAST POSITIONS ONLY, ALL ROWS.
16. -3 AND -4 SOLDER COMPOSITION AVAILABLE TO EXISTING CUSTOMERS ONLY AS OF REVISION AY.
17. NON-FUNCTIONAL VOIDING IN PLASTIC BODY TO BE AT SAMTEC'S DISCRETION.
18. THESE OPTIONS AVAILABLE AS ASO (APPLICATION SPECIFIC OPTIONS) ONLY. PLEASE CONTACT SAMTEC FOR MORE INFORMATION.

No OF POSITIONS

- -10, ☒ -15, \*\* -19, -20
- ▴ -25, -30, -40, -50 (PER ROW)

LEAD STYLE

- 05.0: .199[5.06] HEIGHT
- 06.0: .238[6.05] HEIGHT
- 06.5: .258[6.55] HEIGHT
- \*\*\* -07.5: .297[7.54] HEIGHT (SEE TABLE 1)

PLATING SPECIFICATION

- L: LIGHT GOLD (10μ") IN CONTACT AREA, MATTE TIN ON TAIL (USE NEW-SUB-C-209-XX.X-L-X or SUB-C-305-XX.X-L-X)
- S: SELECTIVE GOLD (30μ") IN CONTACT AREA, MATTE TIN ON TAIL (USE NEW-SUB-C-209-XX.X-S-X or SUB-C-305-XX.X-S-X)
- SM: SELECTIVE GOLD (30μ") IN CONTACT AREA, MATTE TIN ON TAIL (USE NEW-SUB-C-209-XX.X-S-X or SUB-C-305-XX.X-S-X)

ROWS

- 04: 4 ROWS (SEE SHT. 5, FIG. 11)
- BF -05: 5 ROWS (SEE SHT. 3, FIG. 5) (SEE NOTE 18)
- 06: 6 ROWS (SEE SHT. 3, FIG. 4)
- 08: 8 ROWS (SEE SHT. 1, FIG. 1)
- 10: 10 ROWS (SEE SHT. 2, FIG. 2)

\* = NOT TOOLED

- = 10 POSITION ONLY AVAILABLE IN 4 ROW.
- ☒ = ONLY AVAILABLE WITH -05.0 BODY HEIGHT, -10 ROW.
- ▴ = ONLY AVAILABLE WITH -05.0 AND -06.5 BODY HEIGHT AND 4 ROW.
- \*\* = ONLY AVAILABLE WITH -06.5 BODY HEIGHT, AND -06 ROW.
- \*\*\* = ONLY AVAILABLE WITH 30 POS & 4 ROW.
- \*\*\*\* = ONLY AVAILABLE WITH -05.0 BODY HEIGHT, -04, -06, -08 & -10 ROW.
- \*\*\*\*\* = NOT RELEASED FOR PRODUCTION.

BF ° = AVAILABLE TO EXISTING CUSTOMERS ONLY.

TABLE 3

No OF POS.	"A"	"B"	"C"	"D"	"E"
□ -10	.729 [18.52]	.670 [17.02]	9	4500 [11.430]	6410 [16.281]
☒ -15	.979 [24.87]	.920 [23.37]	14	7000 [17.780]	8910 [22.631]
***-19	1.179 [29.95]	1.120 [28.45]	18	9000 [22.860]	1.0910 [27.711]
-20	1.229 [31.22]	1.170 [29.72]	19	9500 [24.130]	1.1410 [28.981]
▴ -25	1.479 [37.57]	1.420 [36.07]	24	1.2000 [30.480]	1.3910 [35.331]
-30	1.729 [43.92]	1.670 [42.42]	29	1.4500 [36.830]	1.6410 [41.681]
-40	2.229 [56.62]	2.170 [55.12]	39	1.9500 [49.530]	2.1410 [54.381]
-50	2.729 [69.32]	2.670 [67.82]	49	2.4500 [62.230]	2.6410 [67.081]

TABLE 1		TABLE 2	
LEAD STYLE	"F"	No OF ROWS	"G"
-05.0	.199 [5.05]	-04	.079 [2.01]
-06.0	.238 [6.05]	-05	.120 [3.05]
-06.5	.258 [6.55]	-06	.120 [3.05]
***-07.5	.297 [7.54]	-08	.120 [3.05]
		-10	.120 [3.05]

TABLE 5

SEAF LEAD STYLE	STACK HEIGHT									
	-02.0	-03.0	-03.5	-06.5	-07.0	-09.0	-11.0	* -13.0		
-05.0	7mm	8mm	8.5mm	11.5mm	12mm	14mm	16mm	18mm		
-06.0	8mm	9mm	9.5mm	12.5mm	13mm	15mm	17mm	19mm		
-06.5	8.5mm	9.5mm	10mm	13mm	13.5mm	15.5mm	17.5mm	19.5mm		
***-07.5	9.5mm	10.5mm	11mm	14mm	14.5mm	16.5mm	18.5mm	20.5mm		

(\* = NOT TOOLED)

LEAD STYLE	BODY CALLOUT	CONTACT	
		SOLDER CHARGE TAIL	SOLDER CRIMP TAIL
-05.0	SEAF-XX-05.0-XX-X	NEW-SUB-C-209-05.0-X-X	SUB-C-305-05.0-X-X
-06.0	SEAF-XX-06.0-XX-X	NEW-SUB-C-209-06.0-X-X	SUB-C-305-06.0-X-X
-06.5	SEAF-XX-06.5-XX-X	NEW-SUB-C-209-06.5-X-X	SUB-C-305-06.5-X-X
***-07.5	SEAF-XX-07.5-XX-X	NEW-SUB-C-209-07.5-X-X	SUB-C-305-07.5-X-X

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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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATOR: LCP, COLOR: BLACK  
CONTACT: COPPER ALLOY

DESCRIPTION:  
.050 PITCH SOCKET ARRAY ASSEMBLY  
DWG. NO.

SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR

BY: BRATCHER 05/27/2004 SHEET 1 OF 5

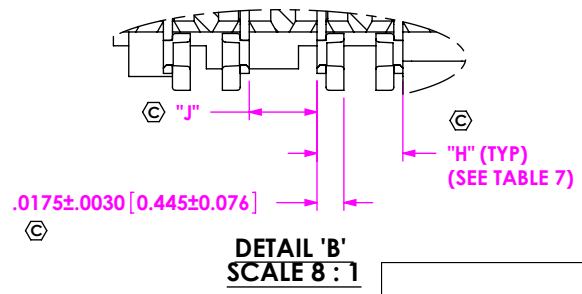
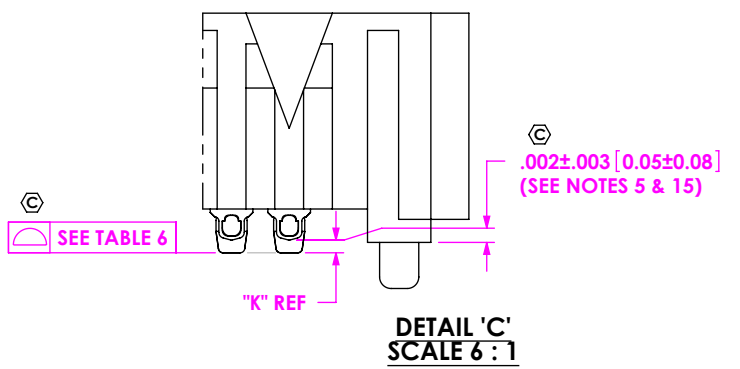
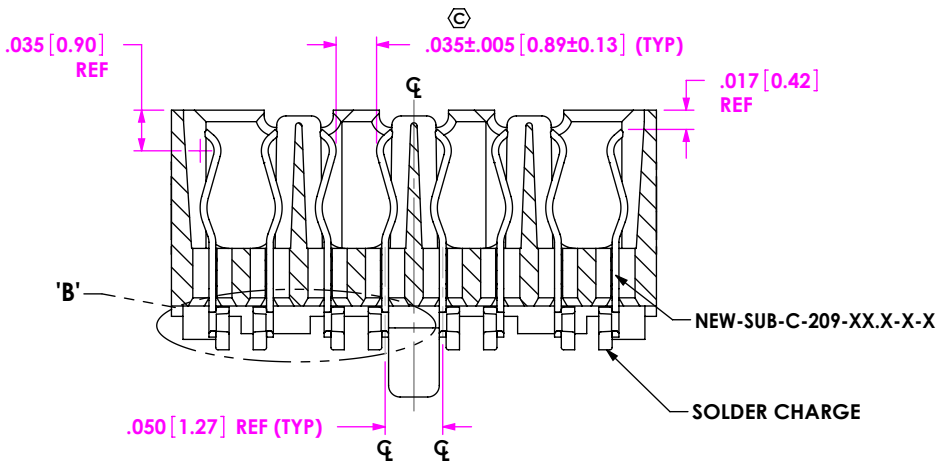


TABLE 6

POSITION	COPLANARITY
-10 TO -30	.006 [0.15]
-40	.009 [0.23]
-50	.009 [0.23]

TABLE 7

LEAD STYLE	"H"	"J"	"K"
-05.0	.0530 - .0590 [1.346] - [1.499]	.0410 - .0470 [1.041] - [1.194]	.011 [0.28]
-06.0	.0530 - .0620 [1.346] - [1.575]	.0380 - .0470 [.965] - [1.194]	.011 [0.28]
-06.5	.0530 - .0645 [1.346] - [1.638]	.0355 - .0470 [.902] - [1.194]	.011 [0.28]
*** -07.5	.0530 - .0645 [1.346] - [1.638]	.0355 - .0470 [.902] - [1.194]	.011 [0.28]

(\*\*\*= NOT TOOLED)

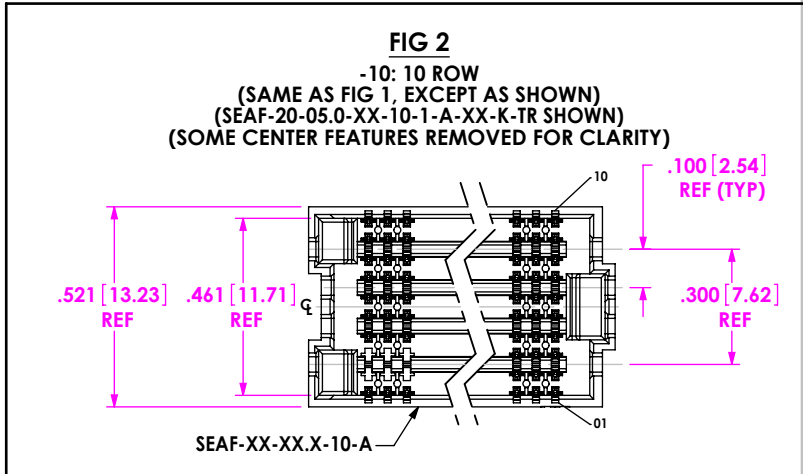


TABLE 8

ROWS	"L"		"M"							"N"	
			□10 POS	⊠15 POS	**19 POS	20 POS	∇25 POS	30 POS	40 POS		50 POS
-04	.256	[6.50]	.254 [6.44]	.379 [9.61]	.479 [12.15]	.504 [12.79]	.629 [15.96]	.754 [19.14]	1.004 [25.49]	1.254 [31.84]	.017 [0.43]
-05/-06	.256	[6.50]	.254 [6.44]	.379 [9.62]	.479 [12.16]	.504 [12.79]	.629 [15.97]	.754 [19.14]	1.004 [25.49]	1.254 [31.84]	.043 [1.09]
-08	.325	[8.25]	.219 [5.57]	.344 [8.74]	.444 [11.28]	.469 [11.92]	.594 [15.09]	.719 [18.27]	.969 [24.62]	1.219 [30.97]	.048 [1.22]
-10	.404	[10.25]	.180 [4.57]	.305 [7.74]	.405 [10.28]	.430 [10.92]	.555 [14.09]	.680 [17.27]	.930 [23.62]	1.180 [29.97]	.059 [1.50]

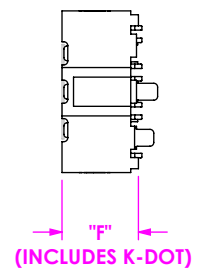
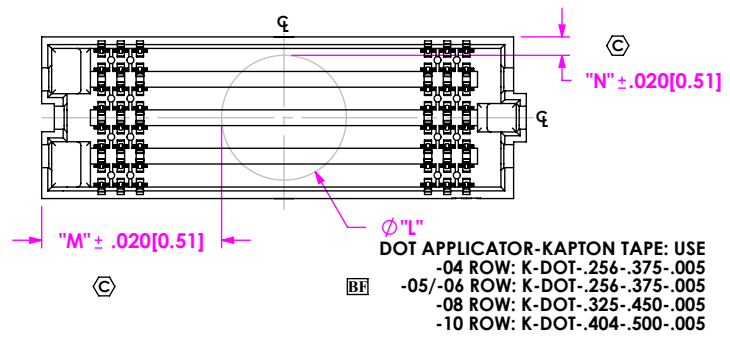


FIG 3  
-K: POLYIMIDE PAD  
(SEAF-20-05.0-XX-08-1-A-XX-K-TR SHOWN)  
(SAME AS FIG. 1, EXCEPT AS SHOWN)  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

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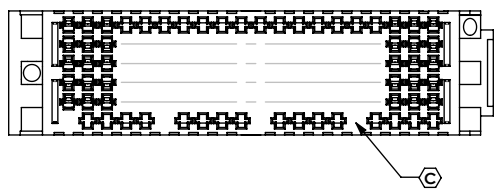
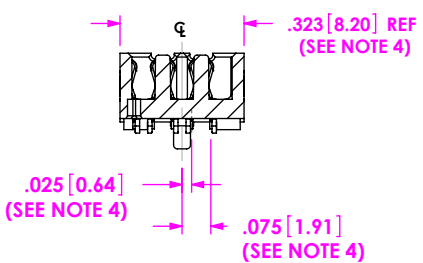
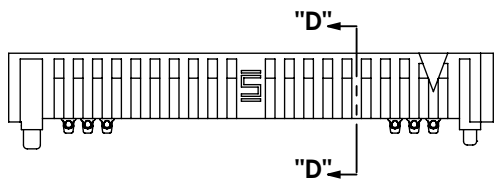
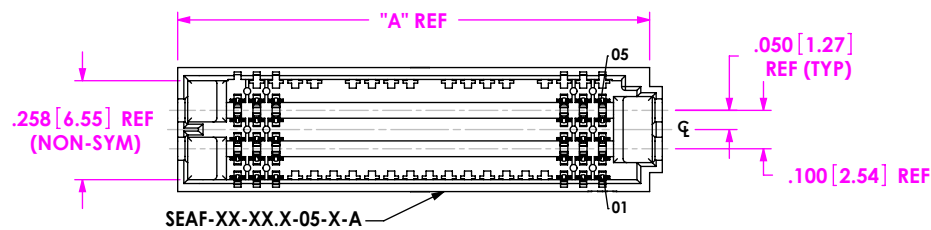
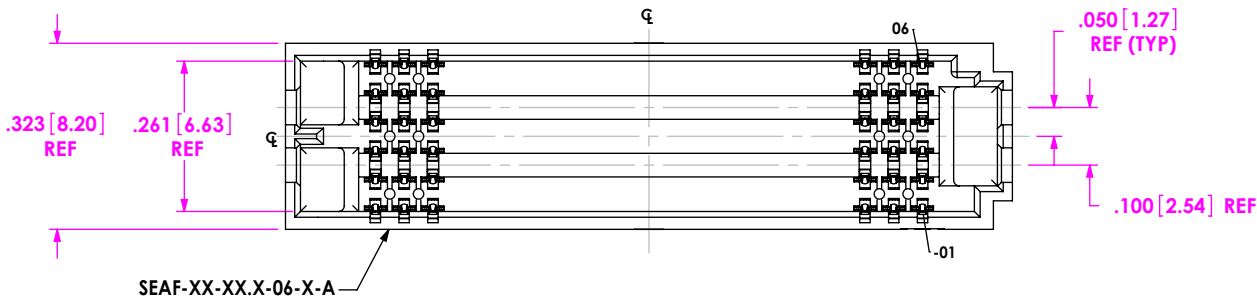
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DESCRIPTION:  
.050 PITCH SOCKET ARRAY ASSEMBLY

DWG. NO.  
SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR

BY: BRATCHER 05/27/2004 SHEET 2 OF 5

**FIG 4**  
 -06: 6 ROW  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (SEAF-20-05.0-XX-06-1-A-XX-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



**FIG 5**  
 -05: 5 ROW  
 (SAME AS FIG 4, EXCEPT AS SHOWN)  
 (SEAF-20-05.0-XX-05-1-A-XX-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

**SECTION "D"-"D"**

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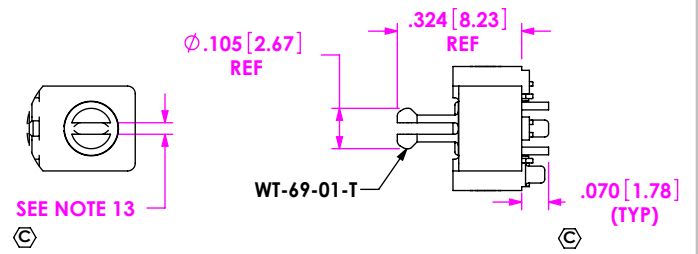
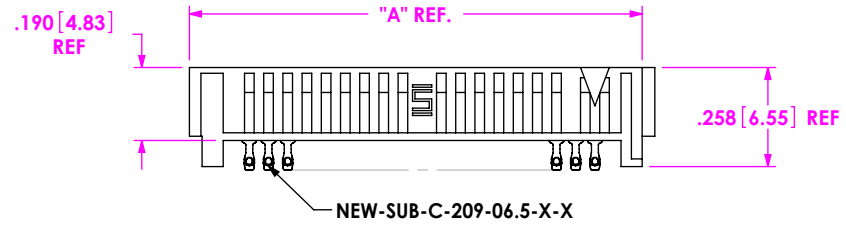
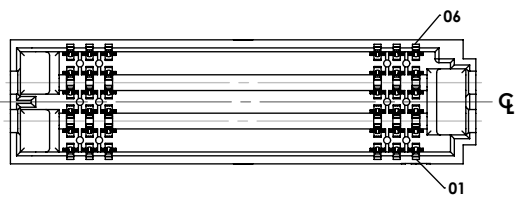
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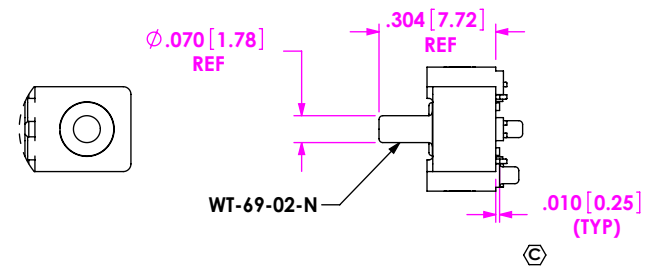
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DESCRIPTION:  
**.050 PITCH SOCKET ARRAY ASSEMBLY**  
 DWG. NO.  
**SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR**  
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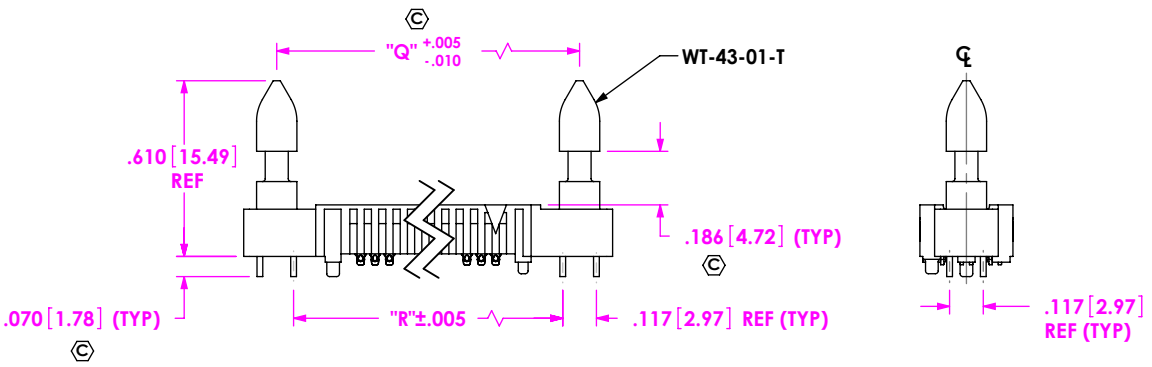
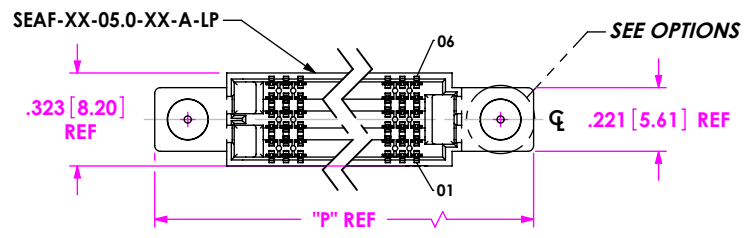
**FIG 7**  
 06 ROW x 19 POS.  
 (SEE NOTE 12)  
 (ONLY AVAILABLE -06.5 LEADSTYLE & -06 ROW)  
 (SEAF-20-06.5-XX-06-1-XX-K-TR SHOWN)  
 (SAME AS FIGS 1 & 4 EXCEPT AS SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



**FIG 9**  
 \*\*\*\*\*RP OPTION  
 (SEAF-20-05.0-XX-06-1-A-RP-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)  
 (SAME AS FIG 7 EXCEPT AS SHOWN)  
 (-RP OPTION VALID FOR SEAR MATE ONLY)  
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)



**FIG 10**  
 -PP OPTION  
 (SEAF-20-05.0-XX-06-1-A-PP-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)  
 (SAME AS FIG 7 EXCEPT AS SHOWN)  
 (-PP OPTION VALID FOR SEAR MATE ONLY)  
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)



**FIG 8**  
 -LP OPTION  
 (SEAF-20-05.0-XX-06-1-A-LP-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)  
 (SAME AS FIG 6 EXCEPT AS SHOWN)  
 (-LP OPTION REQUIRED FOR SEAC MATE ONLY)  
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE -04, -06, -08 & -10 ROW)

**TABLE 9**

No OF POS.	"P"	"Q"	"R"
□ -10	1.262 [32.05]	1.033 [26.24]	.9160 [23.266]
⊠ -15	1.512 [38.40]	1.283 [32.59]	1.1660 [29.616]
** -19	1.712 [43.48]	1.483 [37.67]	1.3660 [34.696]
-20	1.762 [44.75]	1.533 [38.94]	1.4160 [35.966]
▤ -25	2.012 [51.10]	1.783 [45.29]	1.6660 [42.316]
-30	2.262 [57.45]	2.033 [51.64]	1.9160 [48.666]
-40	2.762 [70.15]	2.533 [64.34]	2.4160 [61.366]
-50	3.262 [82.85]	3.033 [77.04]	2.9160 [74.066]

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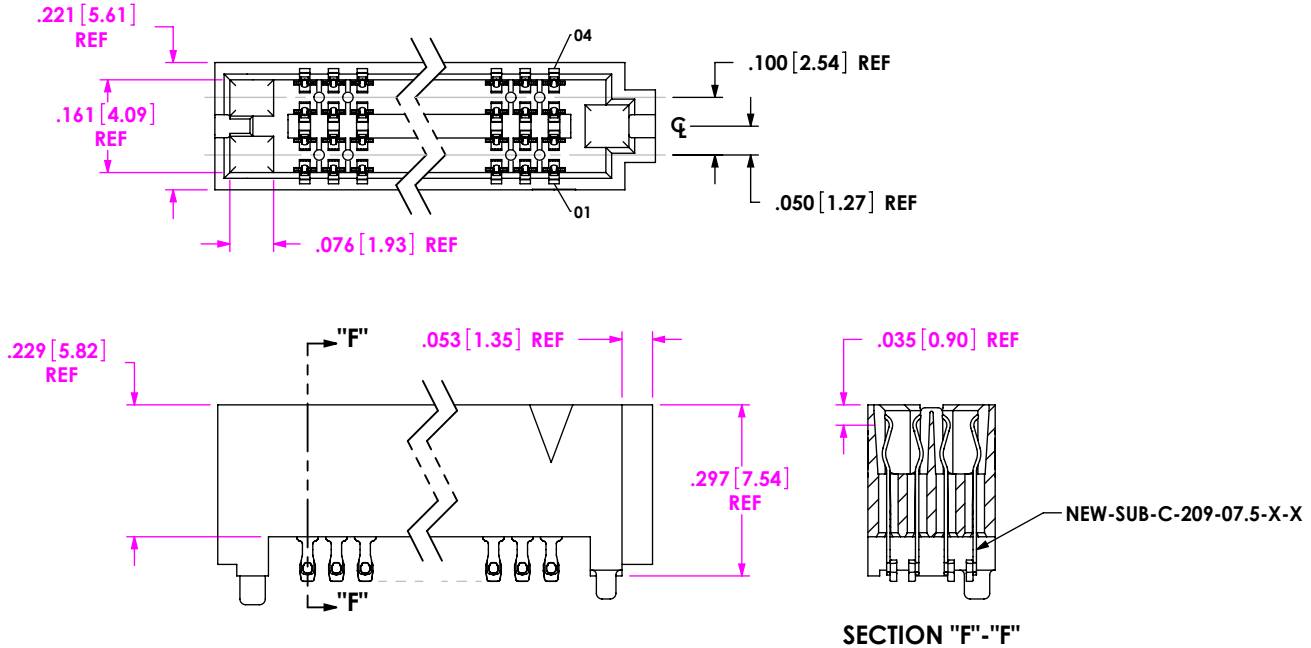
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DESCRIPTION:  
 .050 PITCH SOCKET ARRAY ASSEMBLY

DWG. NO.  
**SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR**

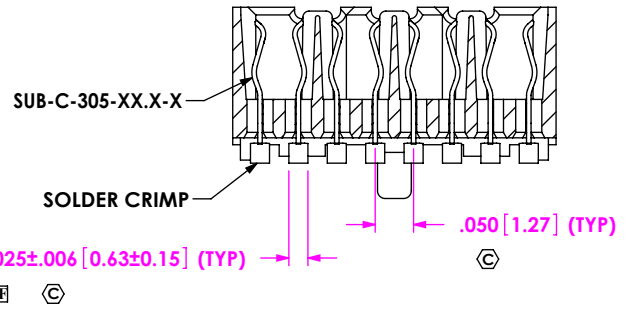
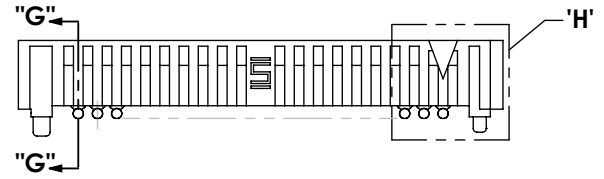
BY: BRATCHER 05/27/2004 SHEET 4 OF 5

**FIG 11**  
 -04: 4 ROW  
 (SEAF-30-07.5-XX-04-1-A-XX-K-TR SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)  
 (SAME AS FIG 1 EXCEPT AS SHOWN)

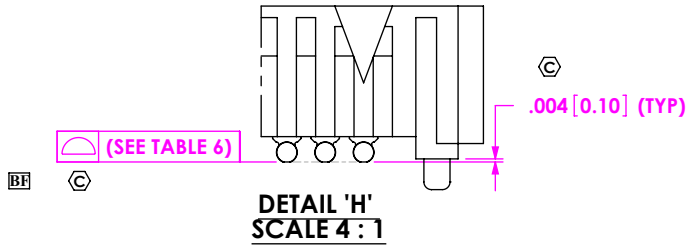


**SECTION "F"- "F"**

**FIG 12**  
**CRIMP TAIL DETAILS**  
 (SEAF-20-05.0-XX-08-X-A-XX-K-TR SHOWN)  
 (SAME AS FIG 1 EXCEPT AS SHOWN)  
 (ONLY AVAILABLE ON -.05.0, -.06.0, -.06.5, -.07.5 LEAD STYLES)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)



**SECTION "G"- "G"**  
**SCALE 4 : 1**



**DETAIL 'H'**  
**SCALE 4 : 1**

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	<p>DESCRIPTION:                  .050 PITCH SOCKET ARRAY ASSEMBLY</p>	
	<p>DWG. NO.                  SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR</p>	
<p>BY: BRATCHER 05/27/2004</p>		<p>SHEET 5 OF 5</p>