

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

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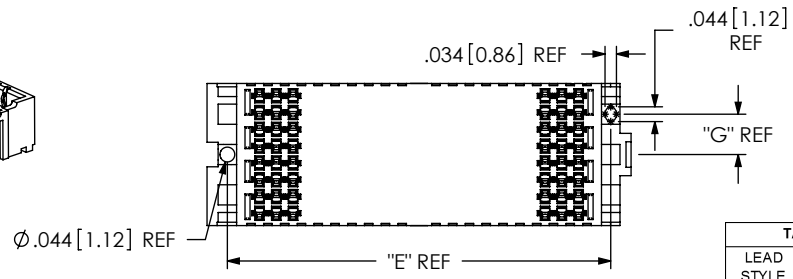
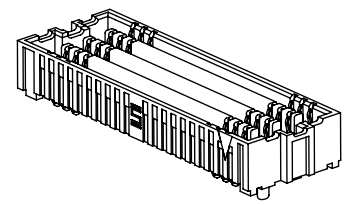
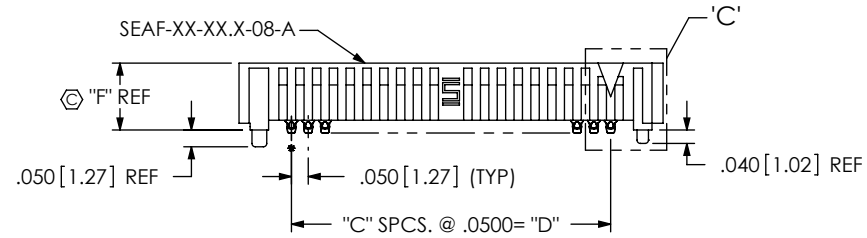
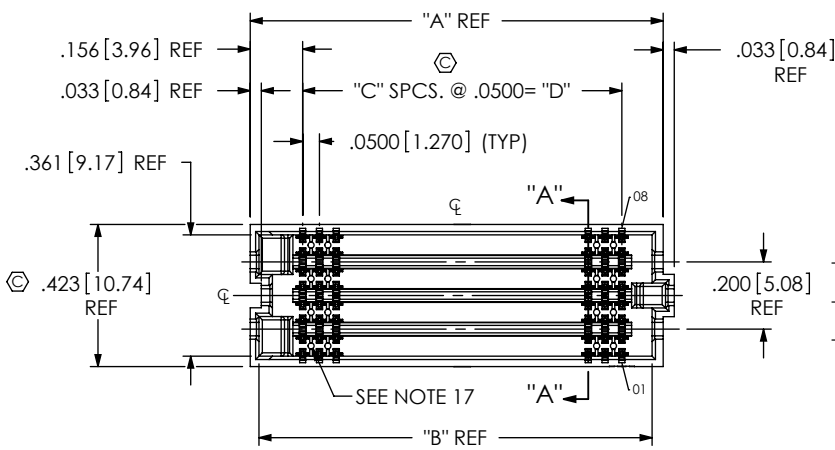


FIG 1
-08: 8 ROW
(SEAF-20-05.0-XX-08-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

No OF POSITIONS
 □ -10, ☒ -15, ** -19, -20
 ▽ -25, -30, -40, -50
 (PER ROW)
 LEAD STYLE
 -05.0: .199 [5.05] HEIGHT
 -06.0: .238 [6.05] HEIGHT
 -06.5: .258 [6.55] HEIGHT
 *** -07.5: .297 [7.54] HEIGHT
 (SEE TABLE 1)

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

ROWS
 -04: 4 ROWS (SEE SHT 5, FIG 11)
 -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.

K-DOT (SEE SHT 2, FIG 3) (SEE NOTE 7)
 OPTION
 ****-LP: LATCH POST OPTION (SEE SHT 4, FIG 8) (ONLY AVAILABLE WITH -05.0 LEAD STYLE, -04, -06, -08 & -10 ROW) (-K OPTION NOT AVAILABLE ON -10 OR -15 POSITION)
 *****-RP: RETENTION PIN (SEE SHT 4, FIG 9) (ONLY AVAILABLE WITH -05.0 LEAD STYLE, 6, 8 & 10 ROWS)
 -PP: POLARIZATION PIN (SEE SHT 4, FIG 10) (ONLY AVAILABLE WITH -05.0 LEAD STYLE, 6, 8 & 10 ROWS)
 ALIGNMENT PINS (SEE NOTES 6, 12 & 14)

SOLDER COMPOSITION & STYLE
 -1: 63% TIN / 37% LEAD
CHARGE TAIL
 (USE NEW-SUB-C-209-XX.X-X-7)
 -2: 95.5% TIN/3.8% SILVER/.7% COPPER
CHARGE TAIL
 (USE NEW-SUB-C-209-XX.X-X-2)

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]

LEAD STYLE	"F"
-05.0	.199 [5.05]
-06.0	.238 [6.05]
-06.5	.258 [6.55]
***-07.5	.297 [7.54]

No OF ROWS	"G"
-04	.079 [2.01]
-05	.120 [3.05]
-06	.120 [3.05]
-08	.120 [3.05]
-10	.120 [3.05]

LEAD STYLE	BODY CALLOUT	CONTACT
		SOLDER CHARGE TAIL
-05.0	SEAF-XX05.0-XX-X	NEW-SUB-C-209-05.0-X-X
-06.0	SEAF-XX06.0-XX-X	NEW-SUB-C-209-06.0-X-X
-06.5	SEAF-XX06.5-XX-X	NEW-SUB-C-209-06.5-X-X
***-07.5	SEAF-XX07.5-XX-X	NEW-SUB-C-209-07.5-X-X

SEAF LEAD STYLE	STACK HEIGHT							
	SEAM LEAD STYLE							
	-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

- NOTES:
- ⊙ REPRESENTS A CRITICAL DIMENSION.
 - MINIMUM PUSHOUT FORCE: 0.50 LBS.
 - NOTE DELETED.
 - 5 ROW SOLDER TAILS ARE NOT SYMMETRICAL WITH BODY WIDTH - DIM .321 [8.15]. (SEE SHEET 3, FIG. 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.
 - WITHOUT -A, AVAILABLE FOR EXISTING CUSTOMERS ONLY AS OF REVISION Y.
 - K-DOT WILL BE SUPPLIED WHETHER OR NOT -K IS SPECIFIED.
 - TAPE & REEL WILL BE SUPPLIED WHETHER OR NOT -TR IS SPECIFIED.
 - FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR REEL WILL BE SUPPLIED.
 - FOR QUANTITIES OF 50 - 124 PIECES, NO LEADER OR TRAILER WILL BE SUPPLIED. SPLICES MAY BE PRESENT.
 - ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
 - SOLDER CHARGE VOLUME IS .00000891 CUBIC INCHES (REF).
 - FOR VITA REQUIREMENTS, -A PIN SHOULD NOT BE ORDERED.
 - SLOT ORIENTATION MUST BE AS SHOWN.
 - A-PINS STANDARD ON ALL BODIES, EXCEPT 6 x 19. SEE SHEET 1, FIG. 1
 - A-PINS ARE OPTIONAL ON 6 x 19. SEE SHEET 4, FIG. 7
 - MAXIMUM ROW TO ROW VARIATION .003 [0.08], MEASURED FIRST & LAST POSITIONS ONLY, ALL ROWS.
 - NOTE DELETED.
 - NON-FUNCTIONAL VOIDING IN PLASTIC BODY TO BE AT SAMTEC'S DISCRETION.
 - THESE OPTIONS AVAILABLE AS ASO (APPLICATION SPECIFIC OPTIONS) ONLY. PLEASE CONTACT SAMTEC FOR MORE INFORMATION.

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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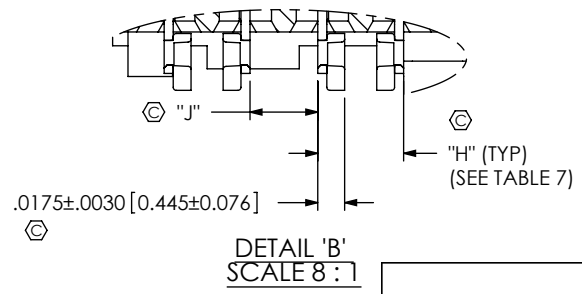
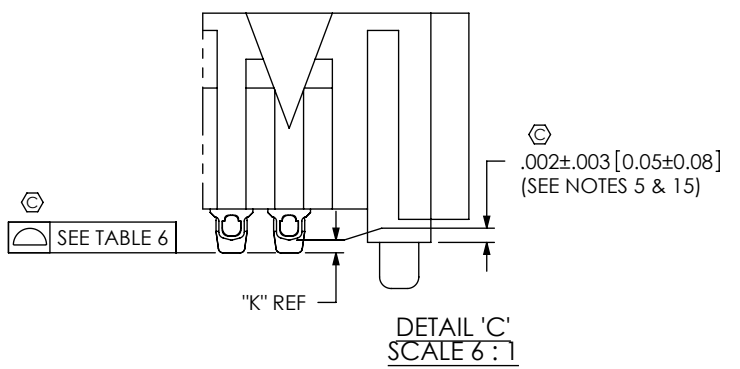
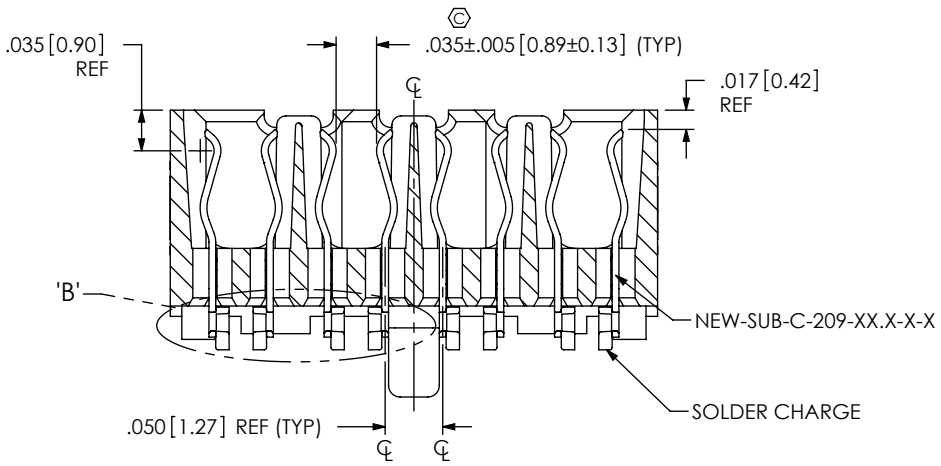


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 e-Mail: info@SAMTEC.com code 55322

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



SECTION "A"- "A"
SCALE 6:1

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 [1.041] - [1.194]	.011 [0.28]
-06.5	.0530 - .0645 [1.346] - [1.638]	.0355 - .0470 [1.041] - [1.194]	.011 [0.28]
*** -07.5	.0530 - .0645 [1.346] - [1.638]	.0355 - .0470 [1.041] - [1.194]	.011 [0.28]

(***= NOT TOOLED)

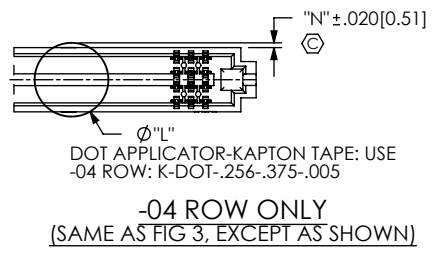
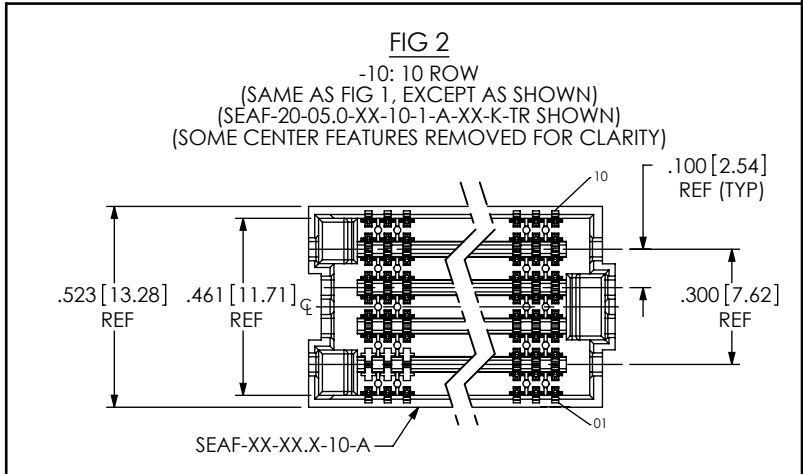
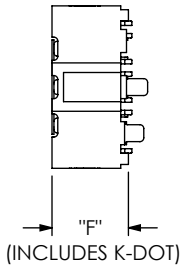
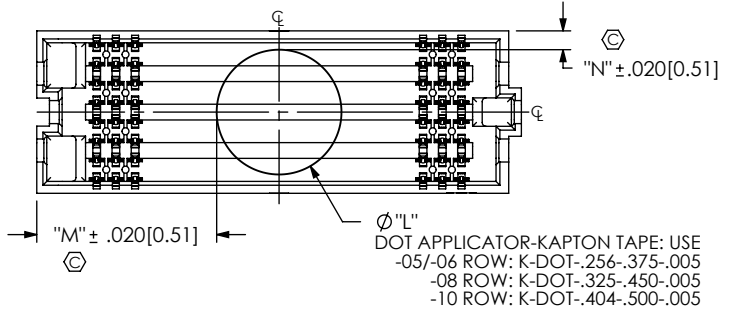


TABLE 8

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 [9.62]	.479 [12.16]	.504 [12.79]	.629 [15.97]	.754 [19.14]	1.004 [25.49]	1.254 [31.84]	.017 [.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]	.034 [.86]
-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]	.049 [1.24]
-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]	.060 [1.52]

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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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)
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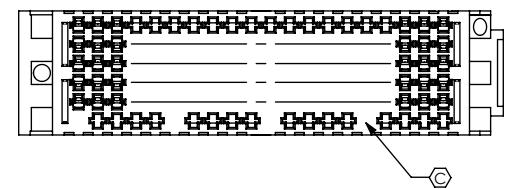
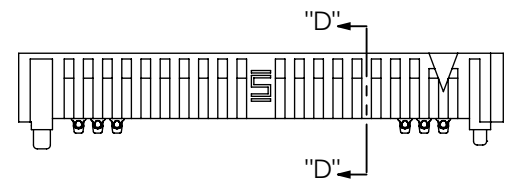
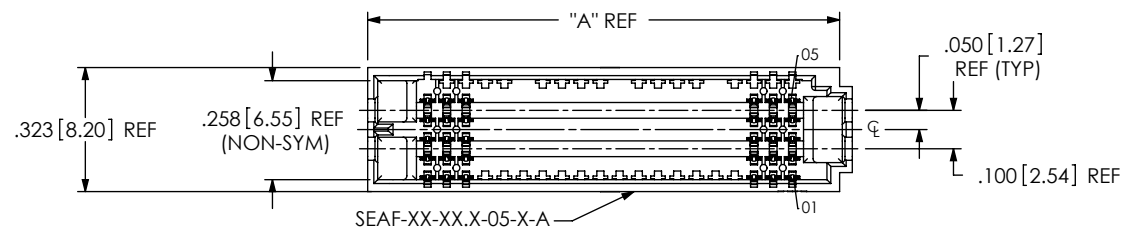
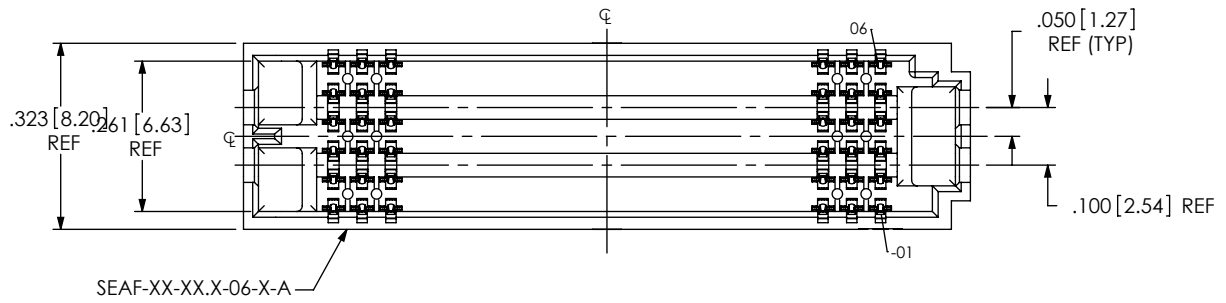
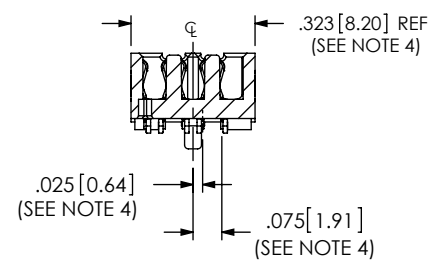


FIG 5
 -05: 5 ROW
 (SAME AS FIG 4, EXCEPT AS SHOWN)
 (SEAF-20-05.0-XX-05-1-A-XX-K-TR SHOWN)
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SECTION "D"-"D"

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 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)

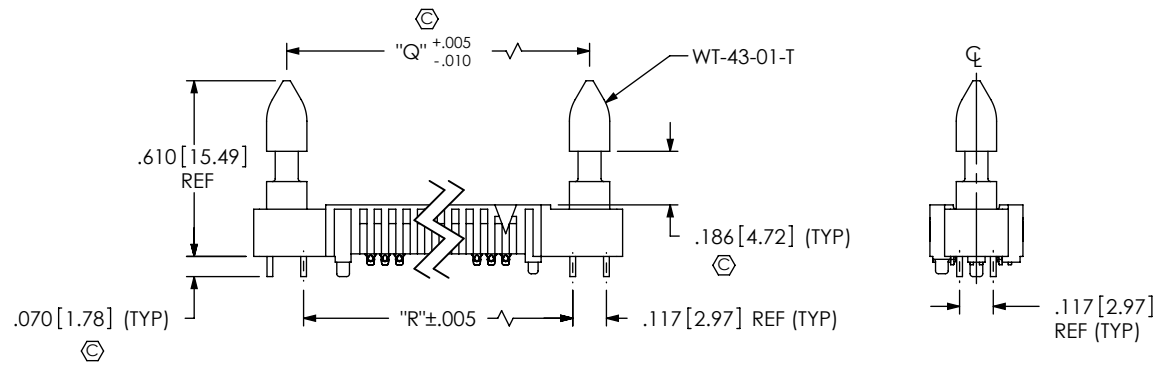
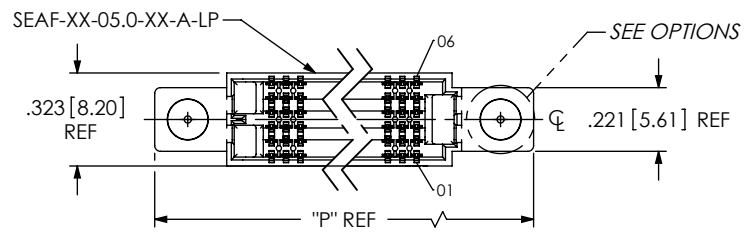
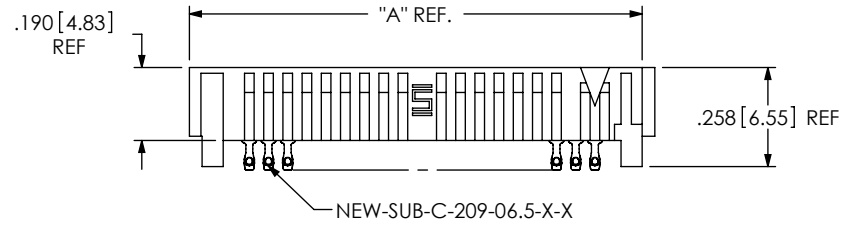
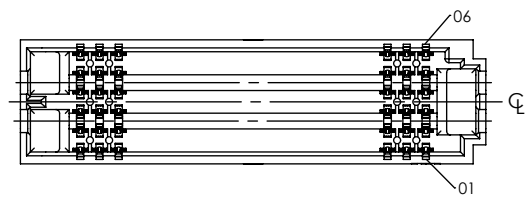


FIG 8
 -LP OPTION
 (SEAF-20-05.0-XX-06-1-A-LP-K-TR SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)
 (SAME AS FIG 6 EXCEPT AS SHOWN)
 (-LP OPTION REQUIRED FOR SEAC MATE ONLY)
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE -04, -06, -08 & -10 ROW)

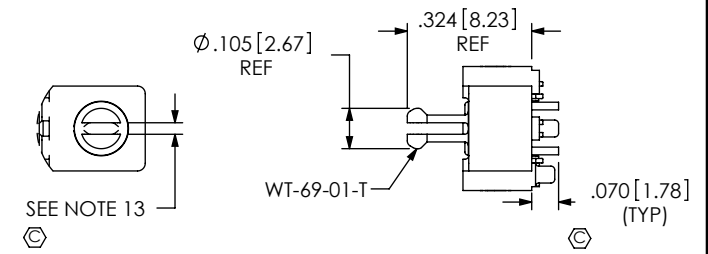


FIG 9
 *****RP OPTION
 (SEAF-20-05.0-XX-06-1-A-RP-K-TR SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)
 (SAME AS FIG 7 EXCEPT AS SHOWN)
 (-RP OPTION VALID FOR SEAR MATE ONLY)
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)

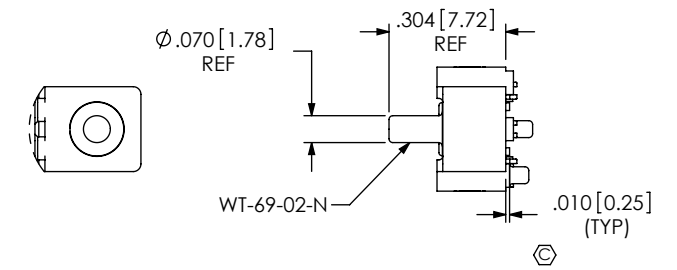



FIG 10
 -PP OPTION
 (SEAF-20-05.0-XX-06-1-A-PP-K-TR SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)
 (SAME AS FIG 7 EXCEPT AS SHOWN)
 (-PP OPTION VALID FOR SEAR MATE ONLY)
 (ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)

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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	<p>DESCRIPTION: .050 PITCH SOCKET ARRAY ASSEMBLY</p>
	<p>DWG. NO. SEAF-XX-XX.X-XX-XX-X-A-XX-K-TR</p>
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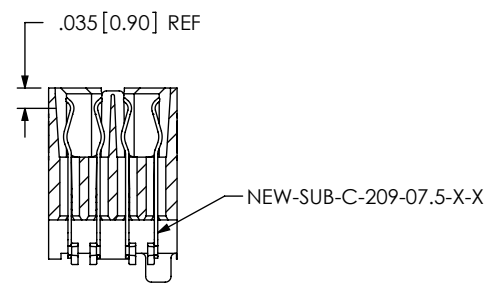
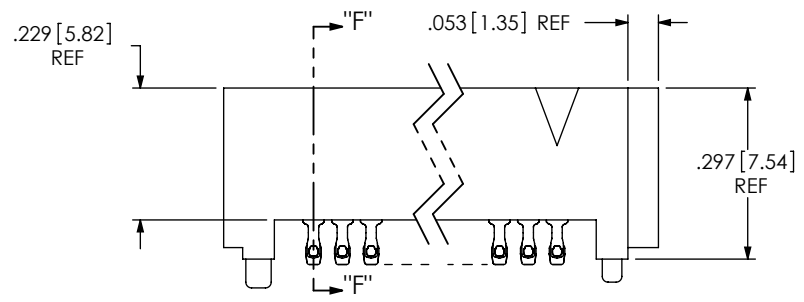
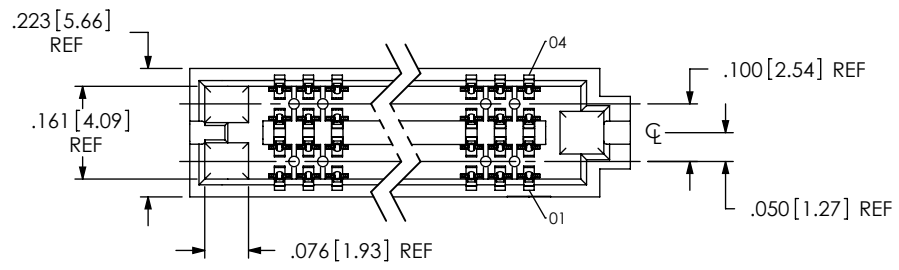



FIG 11
 -04: 4 ROW
 (SEAF-30-07.5-XX-04-1-A-XX-K-TR SHOWN)
 (SOME CENTER FEATURES REMOVED FOR CLARITY)
 (SAME AS FIG 1 EXCEPT AS SHOWN)

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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>	