

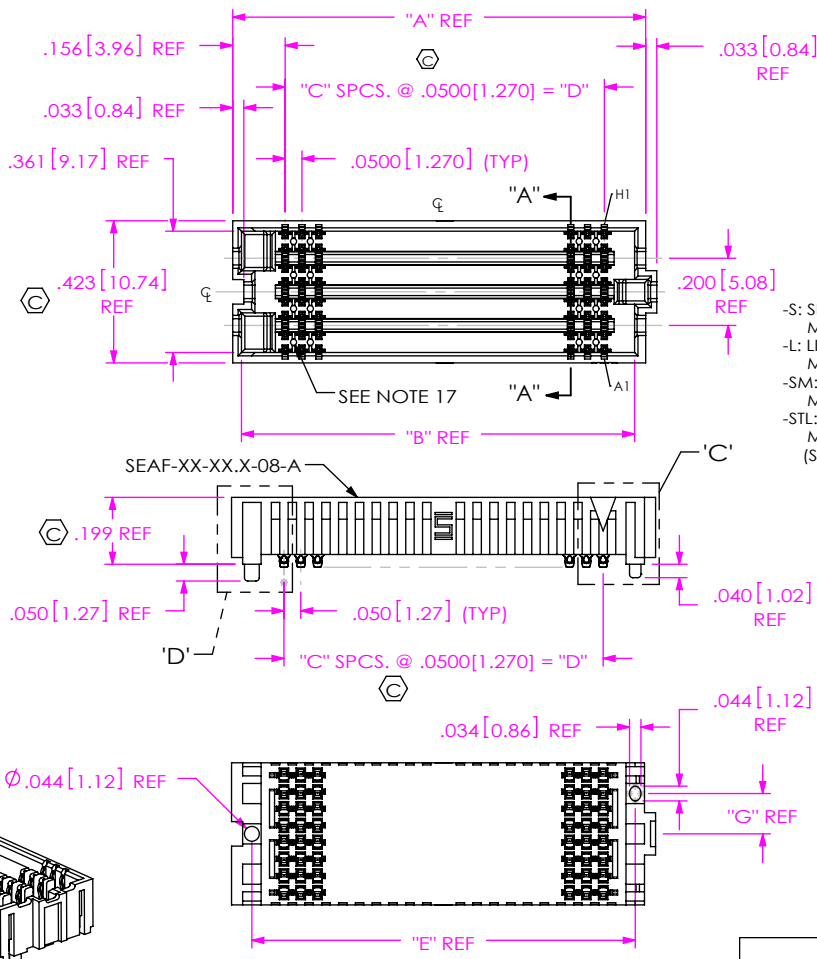
DO NOT
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FIG 1

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

NOTES:

1. 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. NOTE DELETED.
8. NOTE DELETED.
9. NOTE DELETED.
10. ATTACH LABEL "SEAX-0001" TO EACH TAPE & REEL PACKAGE.
11. SOLDER CHARGE VOLUME IS .00000891 CUBIC INCHES (REF).
12. NOTE DELETED.
13. SLOT ORIENTATION MUST BE AS SHOWN.
14. 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
15. MEASURED FIRST & LAST POSITIONS ONLY, ALL ROWS.
16. NOTE DELETED.
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.
19. NOTE DELETED.
20. NOTE DELETED.
21. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM

SEAF-XX-XX.X-XX-XX-X-A-XX-K-XR

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)
-STL: SELECTIVE GOLD (30μ") IN CONTACT AREA,
MATTE TIN/LEAD ON TAIL (USE NEW-SUB-C-209-XX.X-STL-X)
(STL PLATING NOT AVAILABLE WITH -LP, -RP & -PP OPTIONS)

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)
■ -14: 14 ROWS (SEE SHT 5, FIG 12)

- * = NOT TOOLED.
□ = 10 POSITION ONLY AVAILABLE IN 4 ROW.
▣ = ONLY AVAILABLE WITH -05.0 BODY HEIGHT, -10 ROW.
△ = ONLY AVAILABLE WITH -05.0, -06.5 & -07.5 BODY HEIGHT AND 4 ROW.
TOOLED IN -07.5 (NOT ENGINEERING APPROVED)
** = ONLY AVAILABLE WITH -06.5 BODY HEIGHT,
AND -06 ROW.
**** = ONLY AVAILABLE WITH -05.0 BODY HEIGHT,
-04, -06, -08 & -10 ROW.
***** = NOT RELEASED FOR PRODUCTION.
■ = 14 ROW ONLY AVAILABLE IN -06.5 LEAD STYLE AND -40 POS.

TAPE & REEL (SEE NOTES 10 & 21)

-TR: TAPE & REEL
-FR: FULL REEL QTY. TAPE & REEL

K-DOT

(SEE SHT 2, FIG 3)

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 & 14)

SOLDER COMPOSITION & STYLE

-1: 63% TIN / 37% LEAD

CHARGE TAIL

(USE NEW-SUB-C-209-XX.X-X-1)

-2: 95.5% TIN/3.8% SILVER/.7%

COPPER CHARGE TAIL

(USE NEW-SUB-C-209-XX.X-X-2)

TABLE 2		
No OF ROWS	"G"	
-04	.079	[2.01]
-05	.120	[3.05]
-06	.120	[3.05]
-08	.120	[3.05]
-10	.120	[3.05]
-14	.120	[3.05]

TABLE 1				
No. OF ROWS	"F" (INCLUDES K-DOT)			
	LEAD STYLE			
	-05.0	-06.0	-06.5	-07.5
-04, -05, -06, -08, -10, -14	.204 [5.18]	.243 [6.17]	.263 [6.68]	.302 [7.67]

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 4		
LEAD STYLE	BODY CALLOUT	CONTACT
		SOLDER CHARGE TAIL
-05.0	SEAF-XX-05.0-XX-X	NEW-SUB-C-209-05.0-XX
-06.0	SEAF-XX-06.0-XX-X	NEW-SUB-C-209-06.0-XX
-06.5	SEAF-XX-06.5-XX-X	NEW-SUB-C-209-06.5-XX
-07.5	SEAF-XX-07.5-XX-X	NEW-SUB-C-209-07.5-XX

TABLE 5									
STACK HEIGHT									
SEAF LEAD STYLE	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	

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES
.XX: ±.01[0.3]
.XXX: ±.005[0.13]
.XXXX: ±.0020[0.051]

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e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING

SHEET SCALE: 2:1

INSULATOR: LCP, COLOR: BLACK, UL 94 V-0
CONTACT: COPPER ALLOY

DESCRIPTION:

.050 PITCH SOCKET ARRAY ASSEMBLY

DWG. NO.

SEAF-XX-XX.X-XX-XX-X-A-XX-K-XR

BY: BRATCHER 05/27/2004

SHEET 1 OF 5

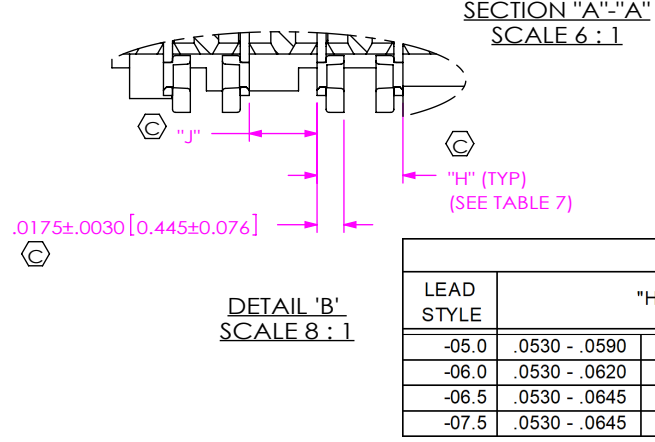
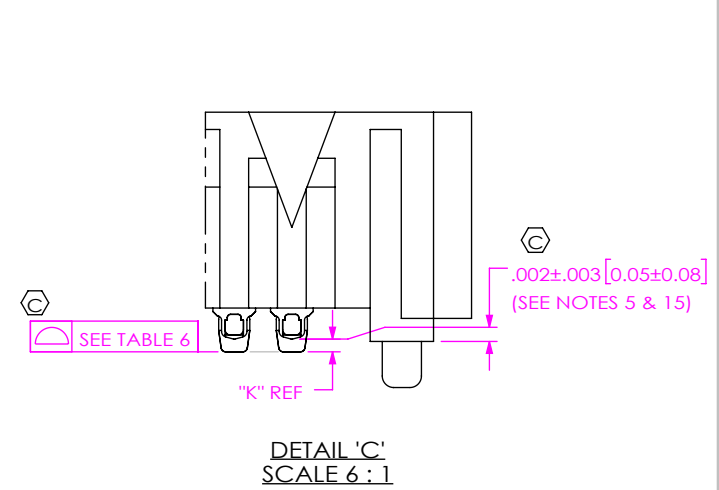
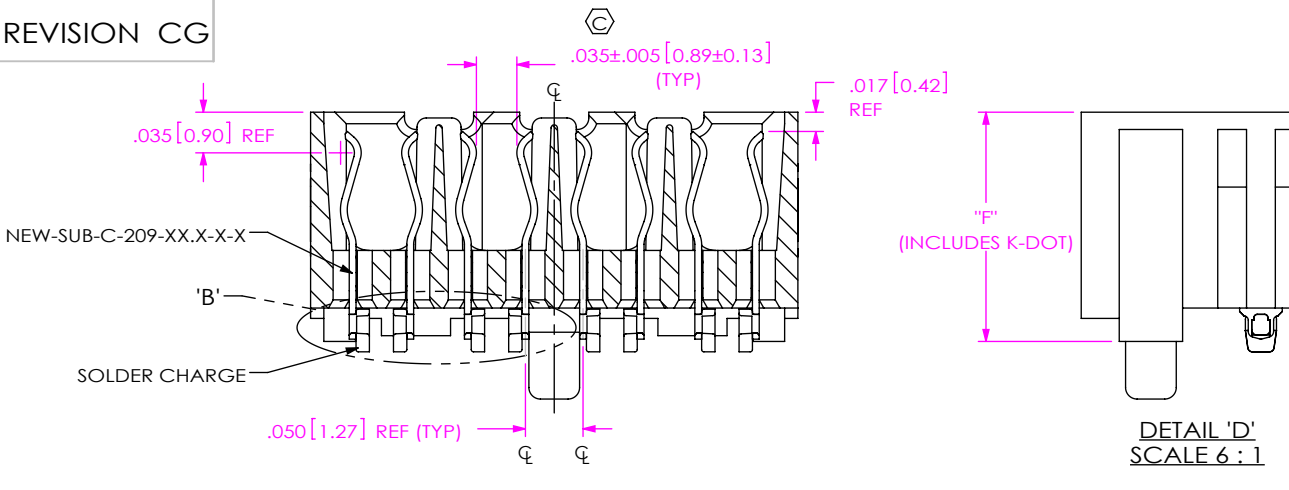


TABLE 6

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]

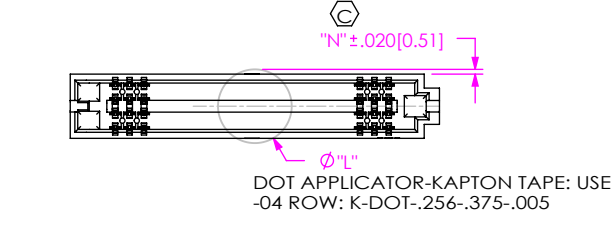
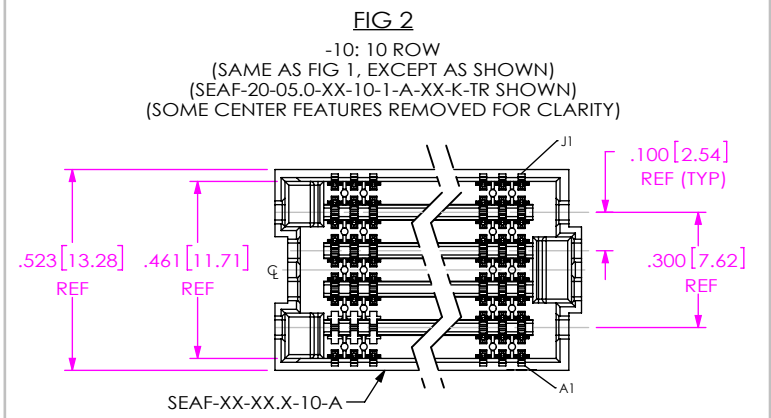


TABLE 8

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 [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]	.034 [0.86]		
-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]		
-14	.404 [10.25]	N/A	N/A	N/A	N/A	N/A	N/A	.930 [23.62]	N/A	.160 [4.05]		

-04 ROW ONLY (SAME AS FIG 3, EXCEPT AS SHOWN)

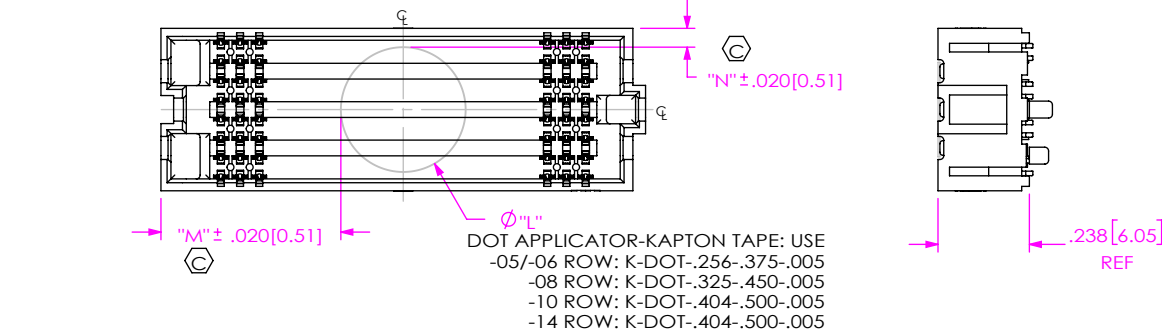


FIG 3

-K: POLYIMIDE PAD (SEAF-20-06.0-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-XR

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

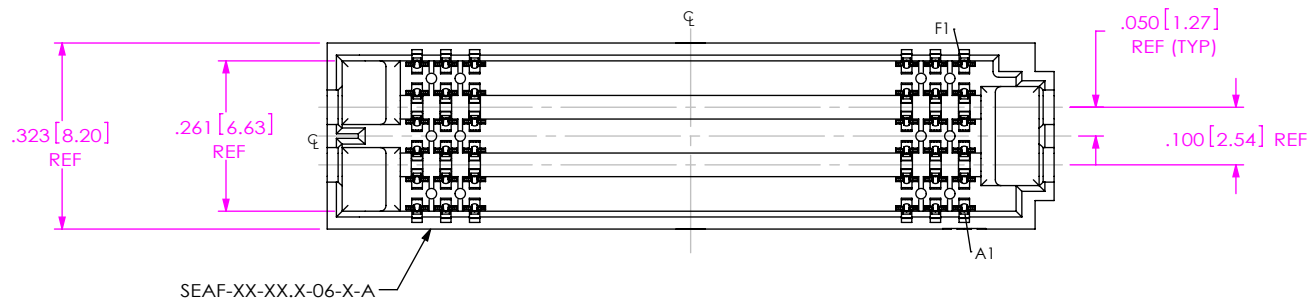


FIG 4
-06: 6 ROW
(SAME AS FIG 1, EXCEPT AS SHOWN)
(SEAF-20-05.0-XX-06-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

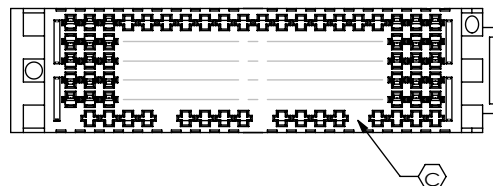
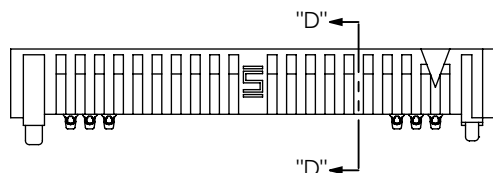
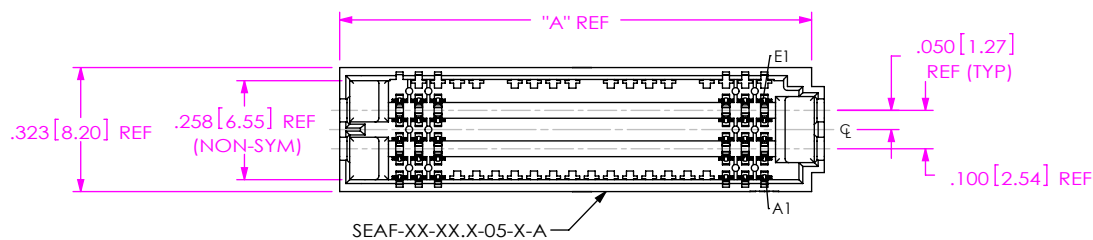
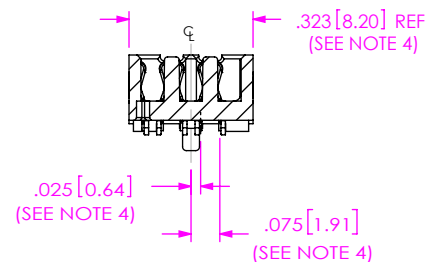


FIG 5
-05: 5 ROW
(SAME AS FIG 4, EXCEPT AS SHOWN)
(SEAF-20-05.0-XX-05-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)



SECTION "D"-"D"

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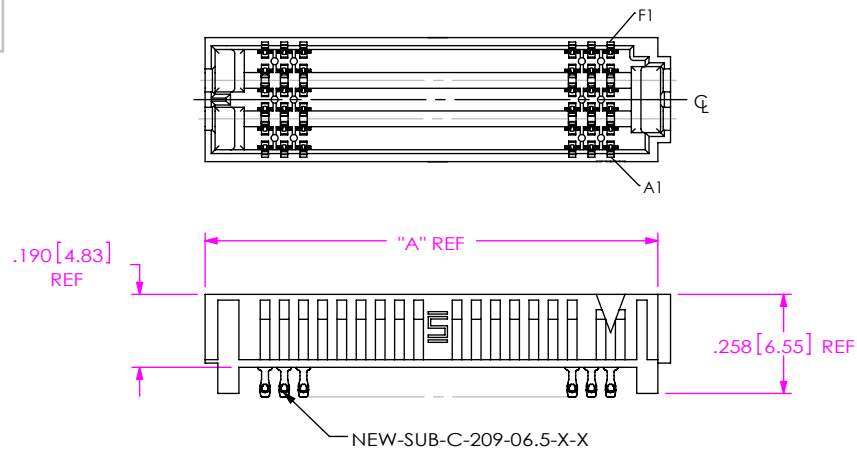


FIG 7
06 ROW x 19 POS
(ONLY AVAILABLE -06.5 LEADSTYLE & -06 ROW)
(SEAF-20-06.5-XX-06-1-XX-K-TR SHOWN)
(SAME AS FIGS 1 & 4 EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

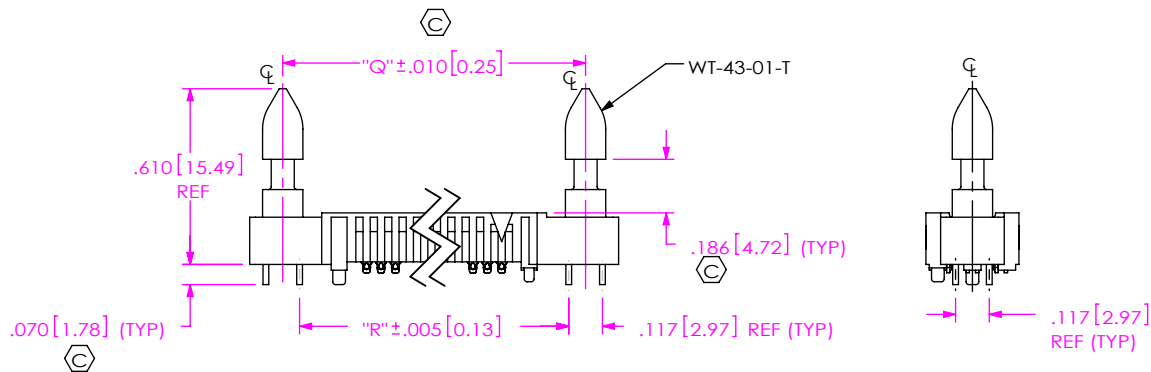
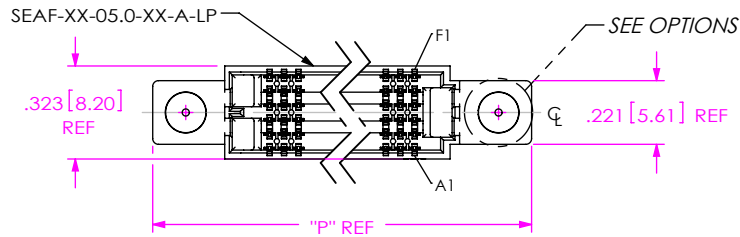


FIG 8
-LP OPTION
(SEAF-20-05.0-XX-06-1-A-LP-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(SAME AS FIG 1 EXCEPT AS SHOWN)
(-LP OPTION REQUIRED FOR SEAC MATE ONLY)
(ONLY AVAILABLE WITH -05.0 LEAD STYLE -04, -06, -08 & -10 ROW)

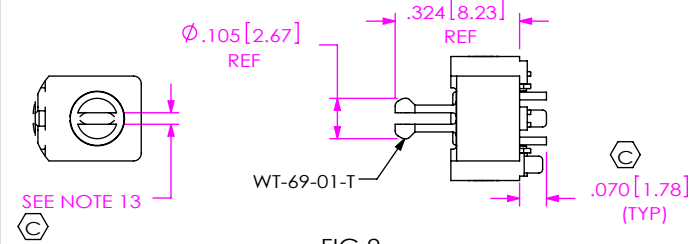


FIG 9
-RP OPTION
(SEAF-20-05.0-XX-06-1-A-RP-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(SAME AS FIG 7 EXCEPT AS SHOWN)
(-RP OPTION VALID FOR SEAR MATE ONLY)
(ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)

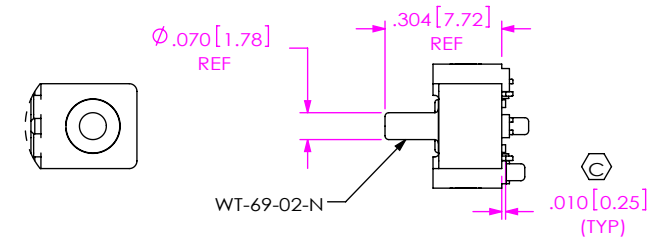


FIG 10
-PP OPTION
(SEAF-20-05.0-XX-06-1-A-PP-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(SAME AS FIG 8 EXCEPT AS SHOWN)
(-PP OPTION VALID FOR SEAR MATE ONLY)
(ONLY AVAILABLE WITH -05.0 LEAD STYLE 6, 8 & 10 ROW)

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

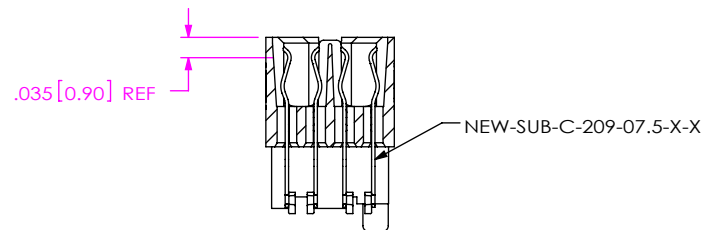
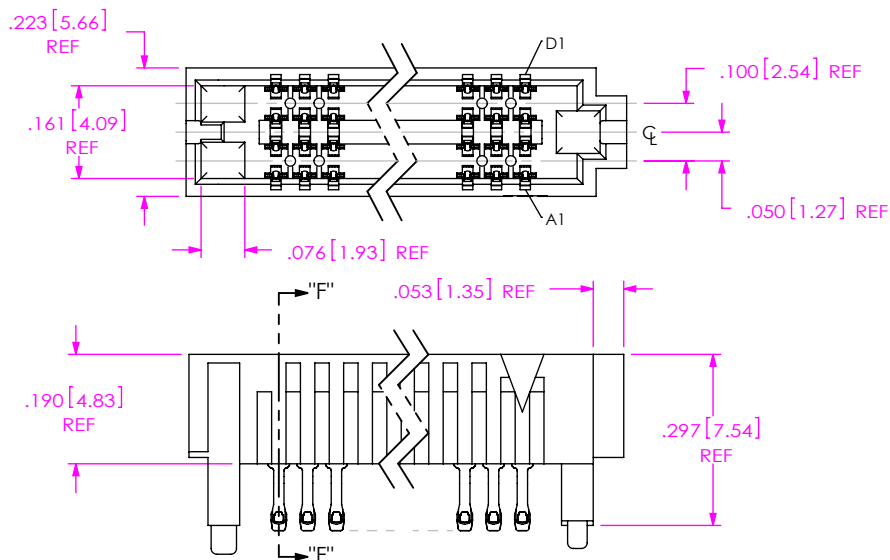


FIG 11
-04: 4 ROW
(SEAF-30-07.5-XX-04-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(SAME AS FIG 1 EXCEPT AS SHOWN)

SECTION "F"-"F"

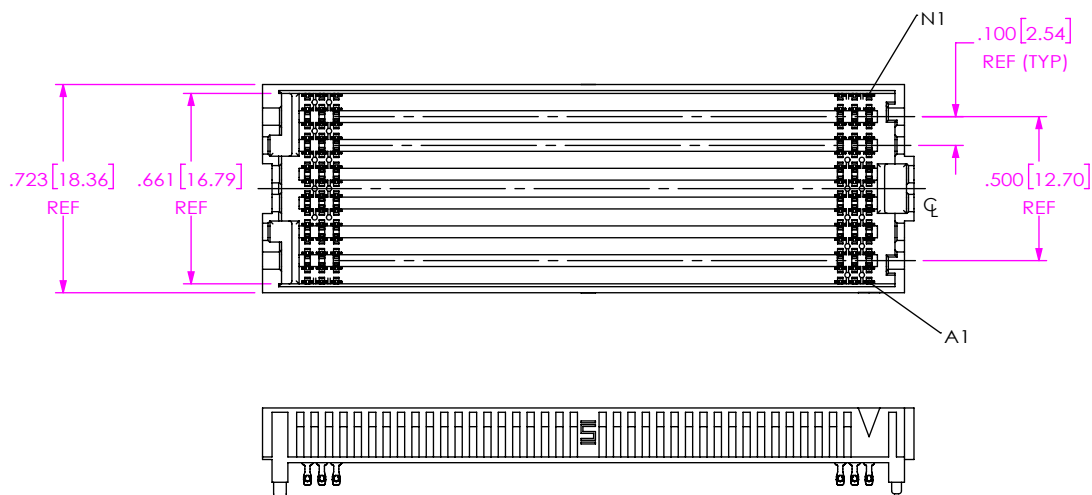


FIG 12
-14: 14 ROW
(SEAF-40-06.5-XX-14-1-A-XX-K-TR SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)
(SAME AS FIG 1 EXCEPT AS SHOWN)

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DESCRIPTION:
SEAF-XX-XX.X-XX-XX-X-A-XX-K-XR

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

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