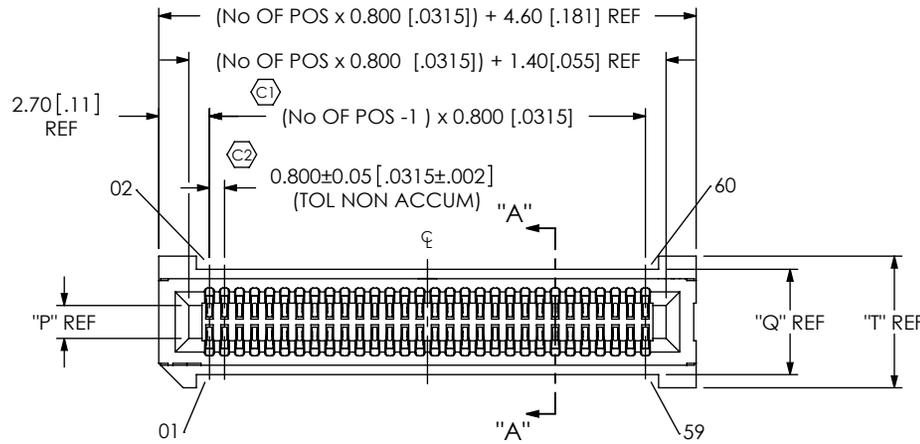


**DESIGNED & DIMENSIONED
IN MILLIMETERS
(INCHES FOR REFERENCE ONLY)**

HSEC8-1XXX-XX-XX-DV-X-XX



NO OF POSITIONS
-10, -20, & -30 (SEE FIG. 1)
**13, **25, **37, **40, **49,
-50, & -60 (SEE FIG. 2)
-70, -80, -90 & -100 (PER ROW)

CARD THICKNESS
(SEE NOTE 6 & 7)

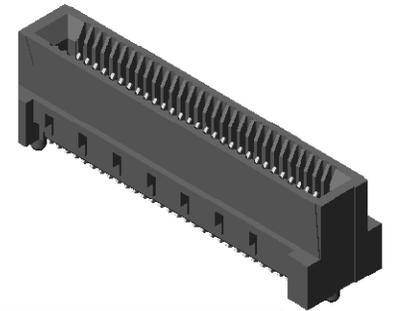
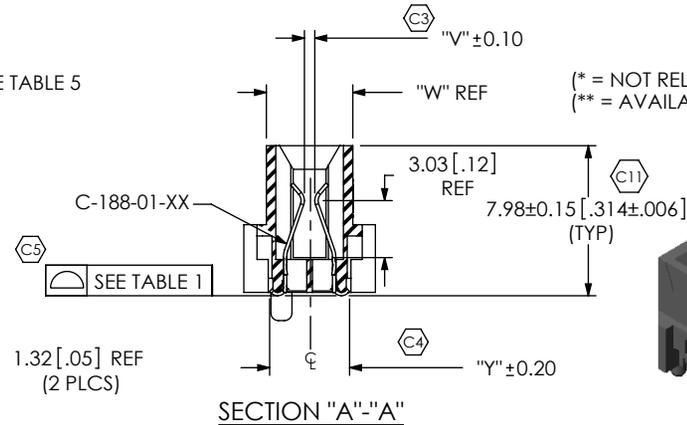
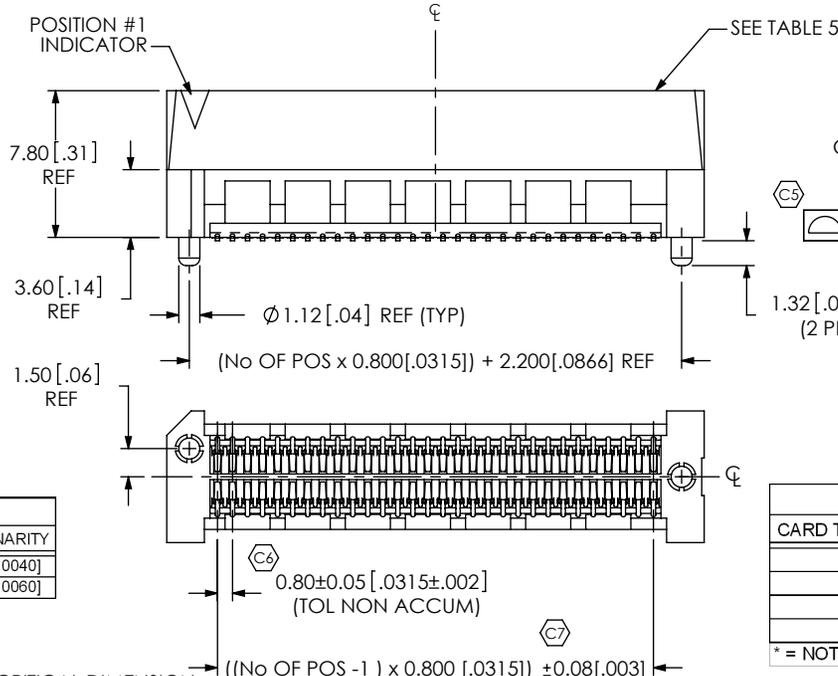
PLATING SPECIFICATION
-SM: SELECTIVE GOLD/MATTE TIN TAIL
(USE C-188-01-S)
-H: HEAVY GOLD
(USE C-188-01-H)
-S: SELECTIVE GOLD/MATTE TIN TAIL
(USE C-188-01-S)

ROW SPECIFICATION
-DV: DUAL VERTICAL
(USE HSEC8-XXX-01-DV-X)

OPTION
-K: POLYAMIDE FILM PAD (SEE FIG. 3)
(USE K-DOT-217-.313-.005)
-TR: TAPE & REEL
(-10 THRU -70 POS ONLY)
(LEAVE BLANK FOR TRAY)
**L: LATCHING OPTION.
NOT AVAILABLE FOR -GR TYPE USE
(USE HSEC8-XX-01-DV-A-L)
(AVAILABLE IN **13, **25, **37
& **49 POSITIONS ONLY)
(SEE SHEET 3, FIG. 4)
**BL: BOARD LOCK OPTION.
NOT AVAILABLE FOR
-GR TYPE USE
(USE HSEC8-XXX-01-DV-XX-BL)
(SEE SHEET 4, FIG. 5)
**GR: GUIDE RAILS
NOT AVAILABLE FOR
-L, -BL TYPE USE (SEE SHEET 5, FIG. 6)
(USE HSEC8-XXX-01-DV-XX-GR)

OPTION
-A: ALIGNMENT PINS
(USE HSEC8X-XXX-XX-DV-A)
(LEAVE BLANK FOR NO -A &
USE HSEC8X-XXX-XX-DV-LC)

(* = NOT RELEASED FOR PRODUCTION)
(** = AVAILABLE ONLY WITH -01 CARD THICKNESS)



No OF POS	COPLANARITY
-10 THRU -60	0.102 [.0040]
-70 THRU -100	0.152 [.0060]

CARD THICKNESS	BODY	"P"	"Q"	"T"	"V"	"W"	"Y"
-01	HSEC8-XXX-01-DV-XX	1.75 [.070]	5.60 [.220]	7.00 [.280]	0.55 [.022]	4.60 [.180]	4.25 [.167]
*-02	HSEC8A-XXX-02-DV-XX	2.18 [.086]	6.03 [.237]	7.43 [.293]	0.98 [.038]	5.03 [.198]	4.68 [.184]
*-03	HSEC8A-XXX-03-DV-XX	2.54 [.100]	6.39 [.252]	7.79 [.307]	1.34 [.053]	5.39 [.212]	5.04 [.198]
*-04	HSEC8A-XXX-04-DV-XX	3.36 [.132]	7.21 [.284]	8.61 [.339]	2.16 [.085]	6.21 [.244]	5.86 [.230]

* = NOT RELEASED FOR PRODUCTION

NOTES:

1. C REPRESENTS A CRITICAL DIMENSION.
2. BURR ALLOWANCE: 0.04 [.0015] MAX.
3. MINIMUM PUSHOUT FORCE: 2.2 NEWTONS.
4. ALL TAIL TO TAIL DIMENSIONS MEASURED TIP TO TIP.
5. ASSEMBLIES TO BE PACKAGED IN TRAYS.
6. CARD THICKNESS OPTION
-01: 1.57mm [.062] THICK CARD USE HSEC8-XXX-01-DV-XX
*-02: 2.00mm [.079] THICK CARD USE HSEC8A-XXX-02-DV-XX
FOR POSITIONS 10, 20, 30, 40, 50 AND 60 ONLY.
*-03: 2.36mm [.093] THICK CARD USE HSEC8A-XXX-03-DV-XX
FOR POSITIONS 10, 20, 30, 40, 50 AND 60 ONLY.
*-04: 3.18mm [.125] THICK CARD USE HSEC8A-XXX-04-DV-XX
FOR POSITIONS 10, 20, 30, 40, 50 AND 60 ONLY.
7. MATING EDGE CARD THICKNESS TOLERANCE TO BE +/- 0.15 [.006].

FIG. 1
FOR POSITIONS -10, -20 & -30
(SHOWN: HSEC8-130-01-XX-D-DV-A)

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:
DECIMALS ANGLES
.X: ± .3 [.01]
.XX: ± .13 [.005]
.XXX: ± .05 [.0020]

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

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2.5:1
INSULATOR: LCP
COLOR: -01 LEAD STYLE BLACK,
-02 THRU -04 LEAD STYLES NATURAL
CONTACT: BeCu

DESCRIPTION:
0.8mm HIGH SPEED ASSEMBLY
DWG. NO.
HSEC8-1XXX-XX-XX-DV-X-XX

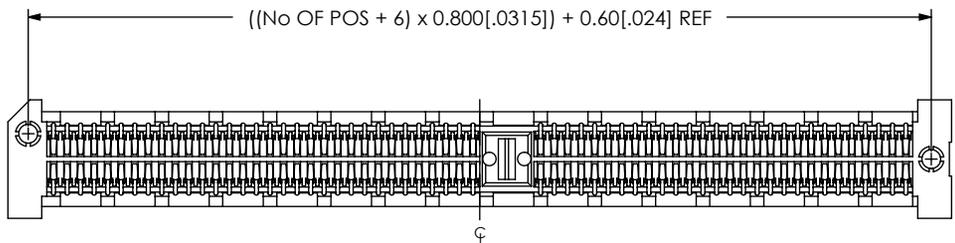
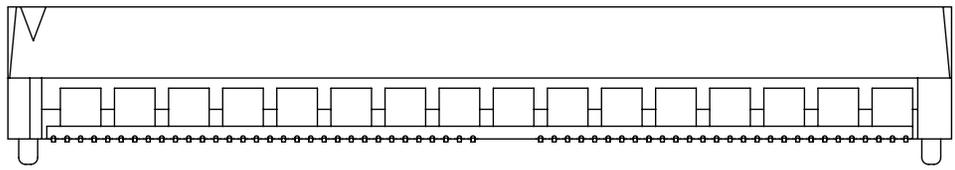
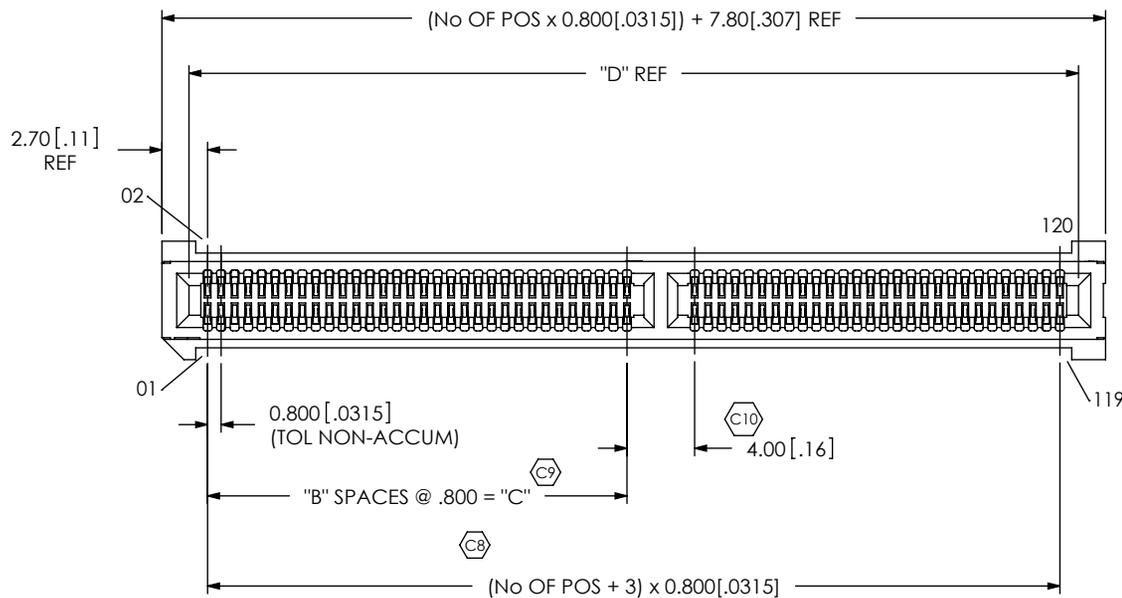


TABLE 2

No OF POS	"A" REF	"B"	"C"	"D" REF	"G" REF
** -13	6.10[.240]	5	4.000[.1575]	15.00[.591]	6.90 [.270]
** -25	6.10[.240]	5	4.000[.1575]	24.60[.969]	16.50 [.648]
** -37	18.10[.713]	20	16.000[.6299]	34.20[1.346]	14.10 [.554]
-40	18.90[.744]	21	16.800[.6614]	36.60[1.441]	15.70 [.617]
** -49	22.90[.902]	26	20.800[.8189]	43.80[1.724]	18.90 [.743]
-50	22.90[.902]	26	20.800[.8189]	44.60[1.756]	19.70 [.774]
-60	26.90[1.059]	31	24.800[.9763]	52.60[2.071]	23.70 [.932]
-70	26.90[1.059]	31	24.800[.9763]	60.60[2.386]	31.70 [1.247]
-80	26.90[1.059]	31	24.800[.9763]	68.60[2.701]	39.70 [1.562]
-90	26.90[1.059]	31	24.800[.9763]	76.60[3.016]	47.70 [1.877]
-100	26.90[1.059]	31	24.800[.9763]	84.60[3.331]	55.70 [2.192]

** = AVAILABLE ONLY WITH -01 CARD THICKNESS

FIG. 2
FOR POSITIONS ** -13, ** -25, ** -37, -40, ** -49, -50, -60, -70, -80, -90, -100 (SAME AS FIG. 1, UNLESS OTHERWISE STATED) (SHOWN: HSEC8-160-01-XX-DV-A) (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

FIG. 3
-K OPTION
(USE K-DOT-.217-.313-.005)

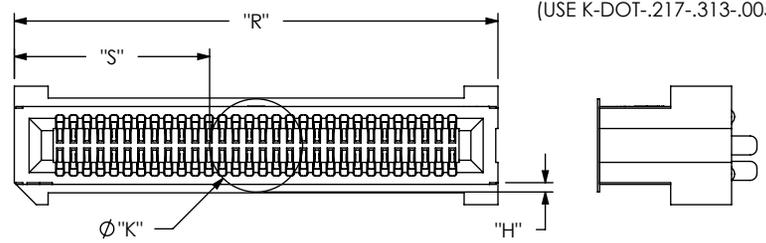


TABLE 3

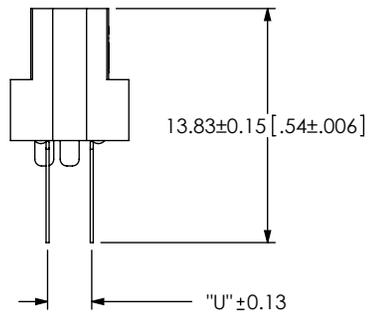
OPTION	No OF POS	"R"	"S"
NONE	-10 THRU -30	(No OF POS x 0.80[.0315]) + 4.60[.181] REF	
	-13, -25, -37, -40 THRU -100	(No OF POS x 0.80[.0315]) + 7.80[.307] REF	
** -L	-13, -25, -37, & -49	(No OF POS x 0.80[.0315]) + 18.40[.724] REF	(("R" - "K") / 2) +/- 0.51[.020]
** -BL	-10 THRU -30	(No OF POS x 0.80[.0315]) + 15.85[.624] REF	
	-13, -25, -37, -40 THRU -100	(No OF POS x 0.80[.0315]) + 19.05[.750] REF	

** = AVAILABLE ONLY WITH -01 CARD THICKNESS

TABLE 6

CARD THICKNESS	BODY	KAPTON TYPE "K"	"U"	"H"
-01	HSEC8-XXX-01-DV-XX	5.50[.216]	2.61[.102]	0.45[.018]
*-02	HSEC8A-XXX-02-DV-XX	5.50[.216]	3.04[.120]	0.24[.009]
*-03	HSEC8A-XXX-03-DV-XX	6.25[.246]	3.40[.134]	0.43[.017]
*-04	HSEC8A-XXX-04-DV-XX	7.00[.275]	4.22[.166]	0.40[.016]

* = NOT RELEASED FOR PRODUCTION



IN-PROCESS

F:\DWG\MISC\MKTG\HSEC8-1XXX-XX-XX-DV-X-XX-MKT.SLDDRW

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
0.8mm HIGH SPEED ASSEMBLY

DWG. NO.
HSEC8-1XXX-XX-XX-DV-X-XX

BY: BRATCHER 01/24/03 SHEET 2 OF 5

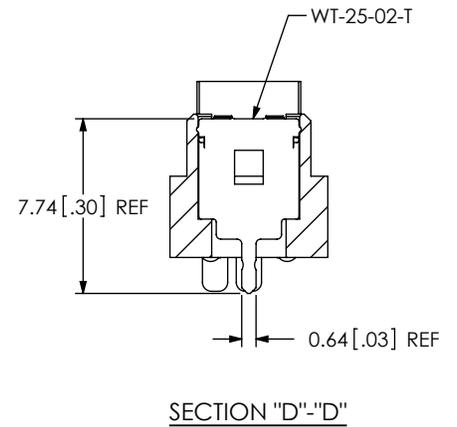
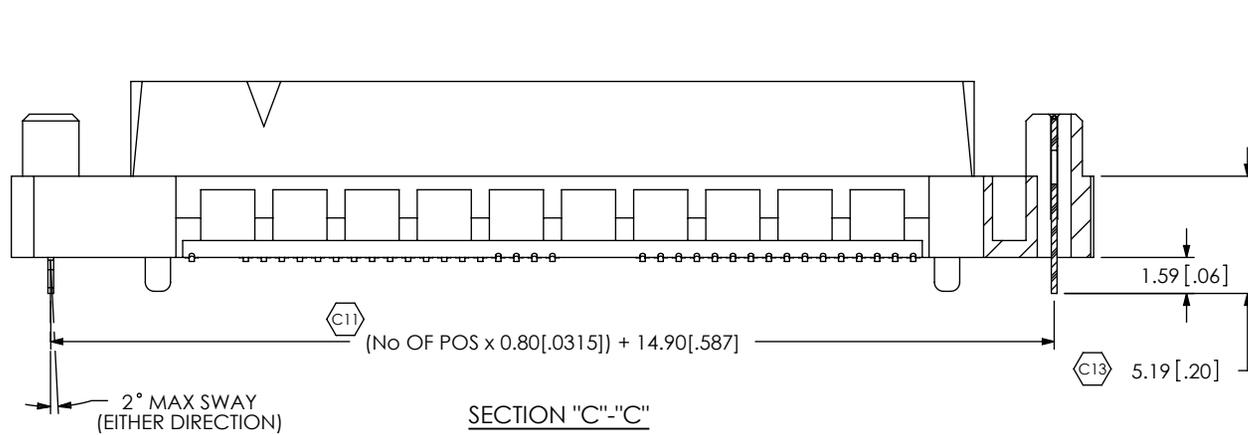
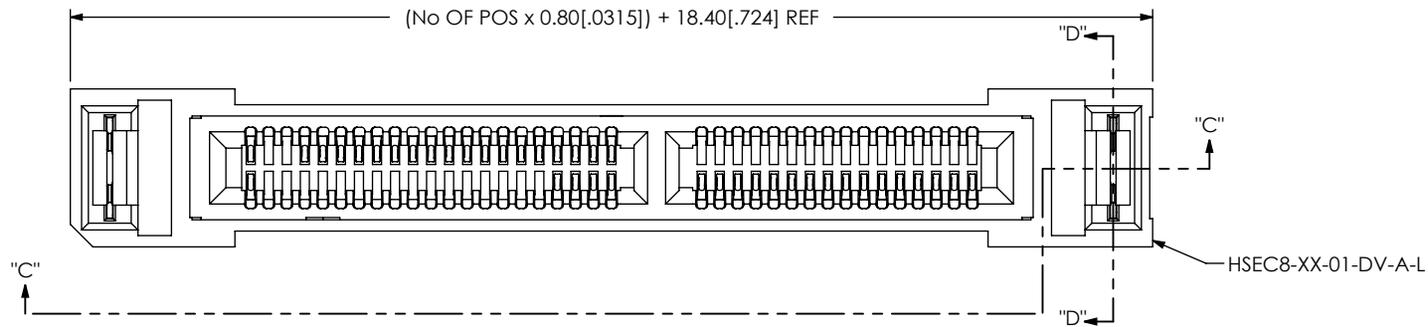


FIG. 4
 **-L: LATCHING OPTION
 AVAILABLE IN -13, -25, -37 & -49 POSITIONS ONLY
 NOT AVAILABLE FOR -GR TYPE USE
 (SAME AS FIG. 2, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-137-01-XX-DV-A-L)
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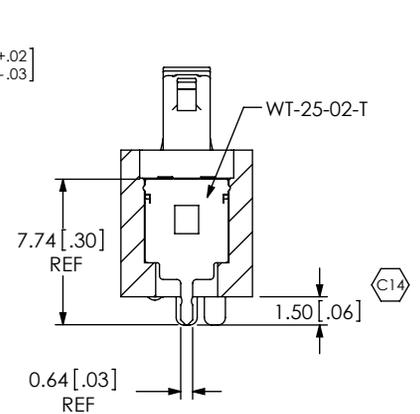
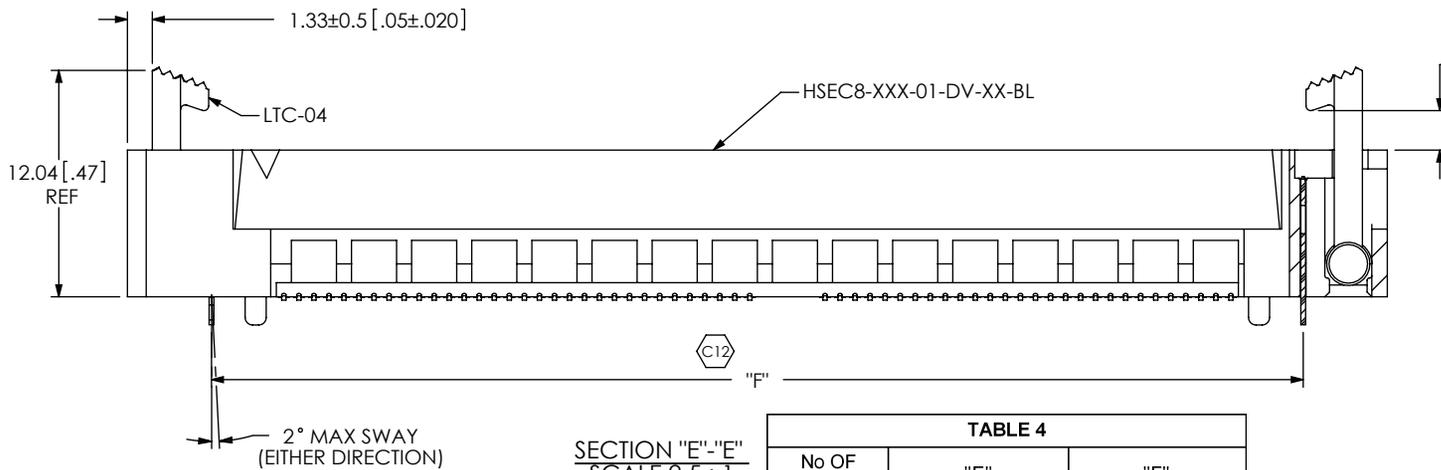
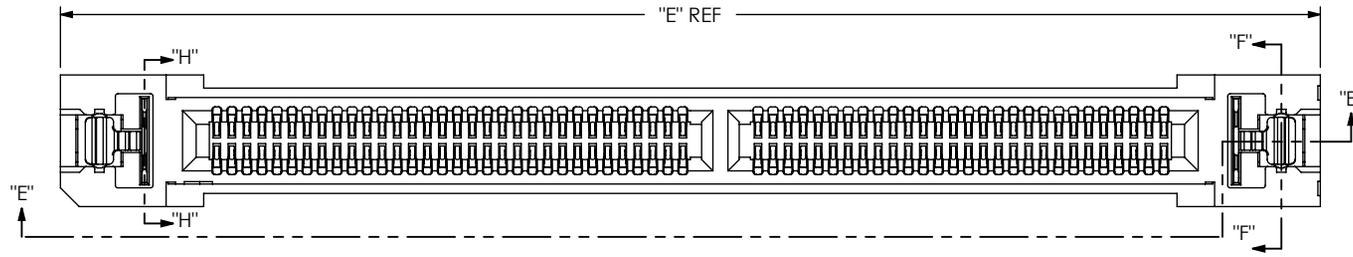
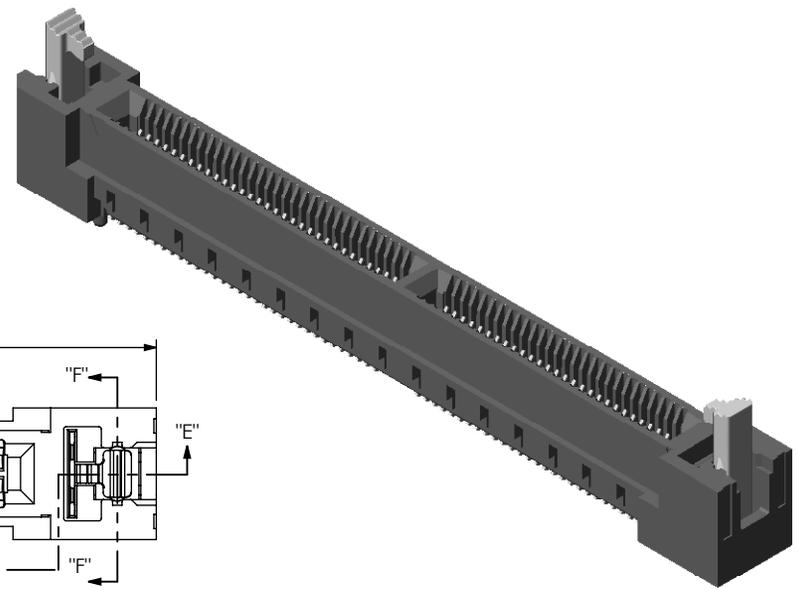
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 SHEET SCALE: 3:1

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 0.8mm HIGH SPEED ASSEMBLY

DWG. NO.
HSEC8-1XXX-XX-XX-DV-X-XX

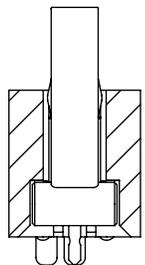
BY: BRATCHER 01/24/03 SHEET 3 OF 5



SECTION "E"-"E"
SCALE 2.5 : 1

No OF POSITIONS	"E"	"F"
-10	23.85 [0.939]	14.90 [0.587]
** -13	29.45 [1.159]	20.50 [0.807]
-20	31.85 [1.254]	22.90 [0.902]
** -25	39.05 [1.537]	30.10 [1.185]
-30	39.85 [1.569]	30.90 [1.217]
** -37	48.65 [1.915]	39.70 [1.563]
-40	51.05 [2.010]	42.10 [1.657]
** -49	58.25 [2.293]	49.30 [1.941]
-50	59.05 [2.325]	50.10 [1.972]
-60	67.05 [2.640]	58.10 [2.287]
-70	75.05 [2.955]	66.10 [2.602]
-80	83.05 [3.270]	74.10 [2.917]
-90	91.05 [3.585]	82.10 [3.232]
-100	99.05 [3.900]	90.10 [3.547]

** = AVAILABLE ONLY WITH -01 CARD THICKNESS



SECTION "F"-"F"
SCALE 2.5 : 1

FIG. 5

** -BL: BOARD LOCK OPTION
NOT AVAILABLE FOR -GR TYPE USE
(SAME AS FIG. 2, UNLESS OTHERWISE STATED)
(SHOWN: HSEC8-160-01-XX-DV-A-BL)
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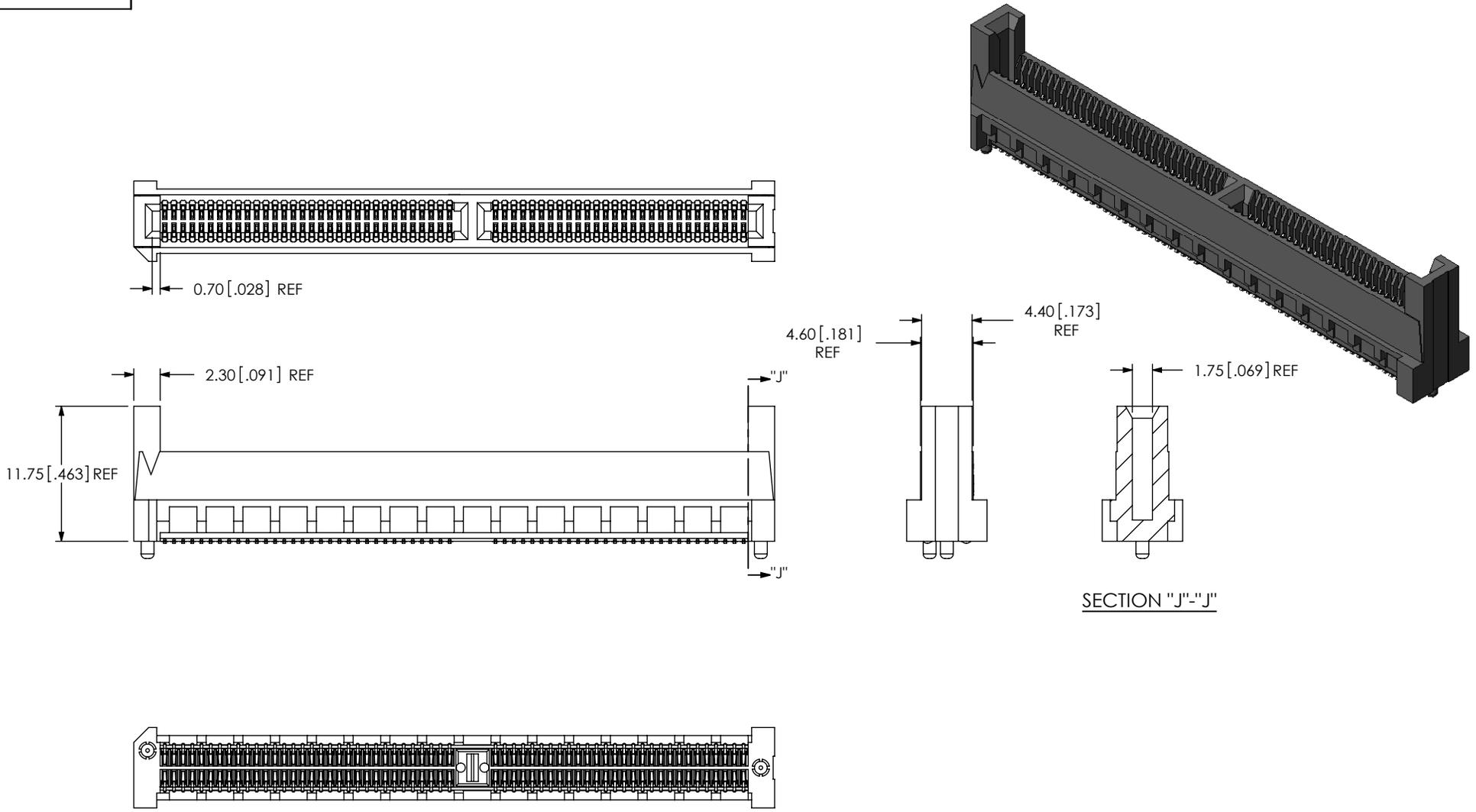


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e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
0.8mm HIGH SPEED ASSEMBLY

DWG. NO.
HSEC8-1XXX-XX-XX-DV-X-XX

BY: BRATCHER 01/24/03 SHEET 4 OF 5



T FIG. 6
 **_GR: GUIDE RAILS OPTION
 AVAILABLE IN -10, -20, -30, -40, -50, & -60 POSITIONS ONLY
 NOT AVAILABLE FOR -L; -BL TYPE USE
 (SAME AS FIG. 2, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-160-01-XX-DV-A-GR)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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 e-Mail: info@SAMTEC.com code: 55322

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 0.8mm HIGH SPEED ASSEMBLY

DWG. NO.
HSEC8-1XXX-XX-XX-DV-X-XX

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