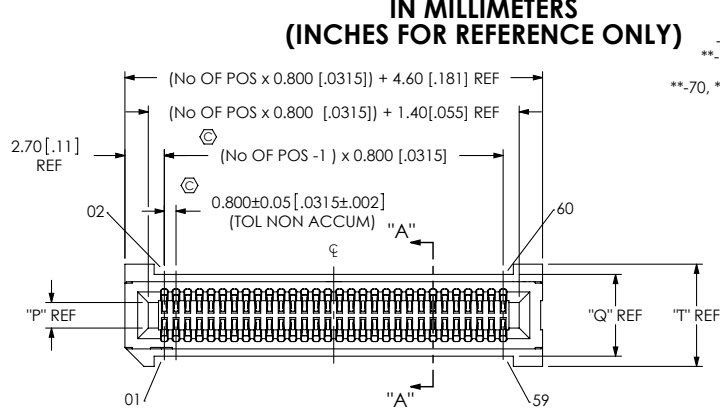


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**DESIGNED & DIMENSIONED
IN MILLIMETERS
(INCHES FOR REFERENCE ONLY)**

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

DO NOT
SCALE FROM
THIS PRINT



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)

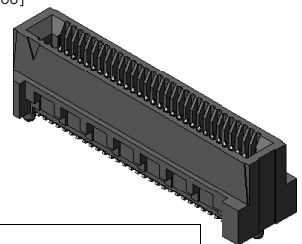
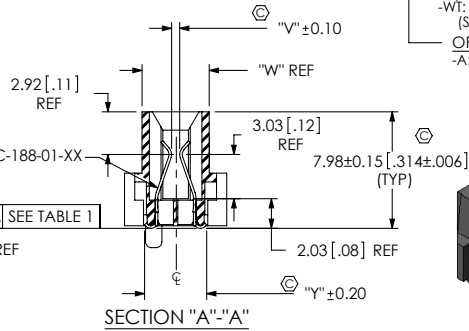
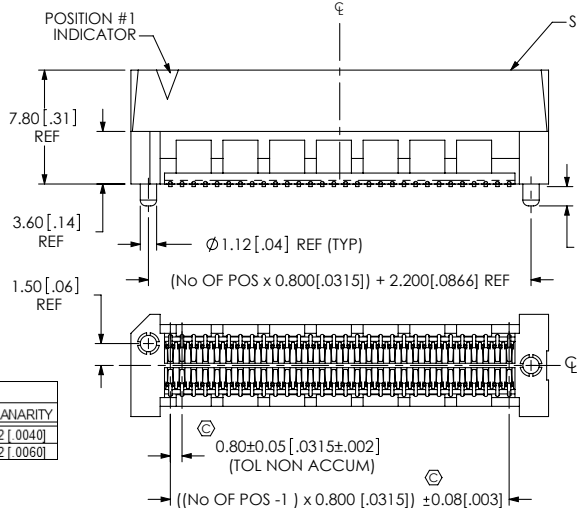
CARD THICKNESS
(SEE NOTE 6 & 7)

PLATING SPECIFICATION

- SM: SELECTIVE GOLD/MATTE TIN TAIL (USE C-188-01-S)
- H: HEAVY GOLD/FLASH GOLD TAIL (USE C-188-01-H)
- S: SELECTIVE GOLD/MATTE TIN TAIL (USE C-188-01-S)
- L: LIGHT SELECTIVE GOLD/MATTE TIN TAIL (USE C-188-01-L)

ROW SPECIFICATION

- OPTION**
- K: POLYIMIDE FILM PAD (SEE FIG 3) (SEE TABLE 6)
 - TR: TAPE & REEL (-10 THRU -70 POS ONLY) (LEAVE BLANK FOR TRAY)
 - **L: LATCHING OPTION. NOT AVAILABLE FOR -GR TYPE USE (USE HSEC8-XXX-01-DV-A-L) (AVAILABLE IN **13, **25, **37 & **49 POS ONLY) (SEE SHEET 3, FIG 4)
 - **L2: ECDP LATCHING OPTION. NOT AVAILABLE FOR -GR USE (USE HSEC8-XXX-01-DV-A-L2) (AVAILABLE IN **26, **50, **74 & **98 POS ONLY) (SEE SHEET 7, FIG 9)
 - **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) (PACKAGING -TR ONLY)
 - **PE: PASS THROUGH (AVAILABLE IN -10, -13 & -20 POS ONLY) (ONLY AVAILABLE WITH -A OPTION) (SEE SHEET 6, FIG 7)
 - WT: WELD TABS (-A OPTION REQUIRED) (SEE SHEET 6, FIG 8)



** = AVAILABLE ONLY WITH -01 CARD THICKNESS

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

NOTES:

- ⊙ REPRESENTS A CRITICAL DIMENSION.
- BURR ALLOWANCE: 0.04[.0015] MAX.
- MINIMUM PUSHOUT FORCE: 2.2 NEWTONS.
- ALL TAIL TO TAIL DIMENSIONS MEASURED TIP TO TIP.
- ASSEMBLIES TO BE PACKAGED IN TRAYS.
- 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.
- MATING EDGE CARD THICKNESS TOLERANCE TO BE ±10% OF NOMINAL.

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

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

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES ARE:
DECIMALS ANGLES
.X: ±.3 [.011] 2°
.XX: ±.13 [.005]
.XXX: ±.051 [.0020]

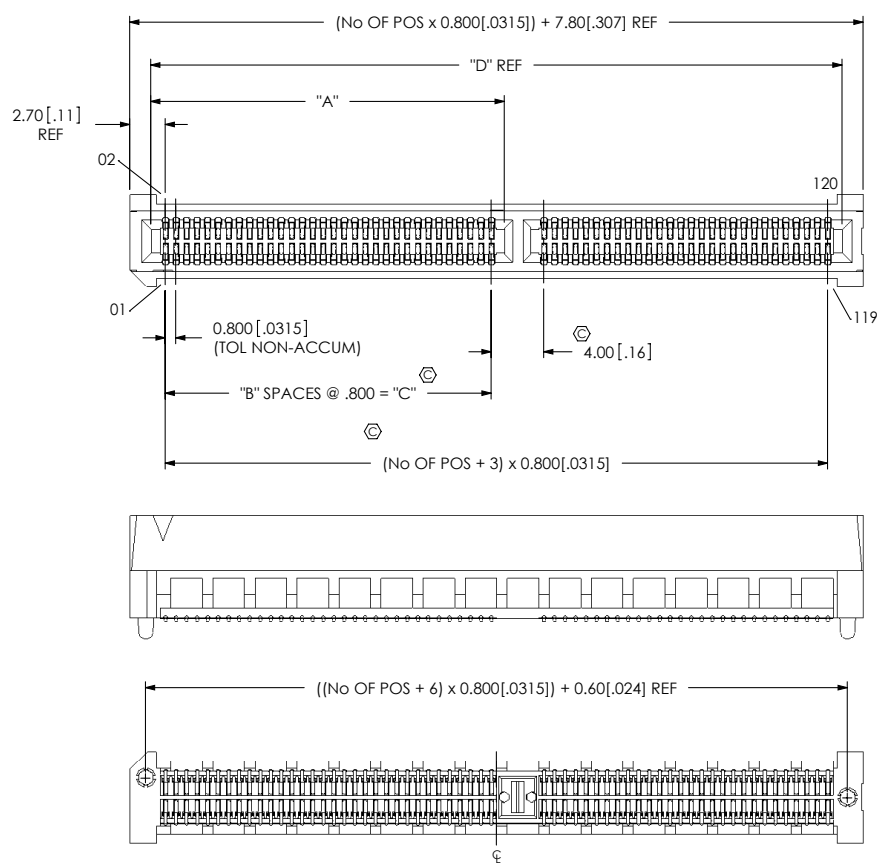
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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

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

DESCRIPTION: 0.8mm HIGH SPEED ASSEMBLY
DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX
BY: BRATCHER 01/24/03 **SHEET 1 OF 7**

REVISION AC

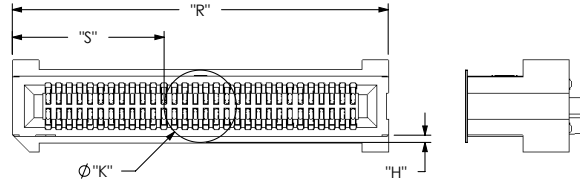


No OF POS	"A" REF	"B"	"C"	"D" REF	"G" REF
**13	6.10 [240]	5	4.00 [1575]	15.00 [591]	6.90 [270]
**25	6.10 [240]	5	4.00 [1575]	24.60 [969]	16.50 [648]
**37	18.10 [713]	20	16.00 [6299]	34.20 [1.346]	14.10 [554]
-40	18.90 [744]	21	16.80 [6614]	36.60 [1.441]	15.70 [617]
**49	22.90 [902]	26	20.80 [8189]	43.80 [1.724]	18.90 [743]
-50	22.90 [902]	26	20.80 [8189]	44.60 [1.756]	19.70 [774]
-60	26.90 [1.059]	31	24.80 [9763]	52.60 [2.071]	23.70 [932]
**70	26.90 [1.059]	31	24.80 [9763]	60.60 [2.386]	31.70 [1.247]
**80	26.90 [1.059]	31	24.80 [9763]	68.80 [2.701]	39.70 [1.562]
**90	26.90 [1.059]	31	24.80 [9763]	76.60 [3.016]	47.70 [1.877]
**100	26.90 [1.059]	31	24.80 [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

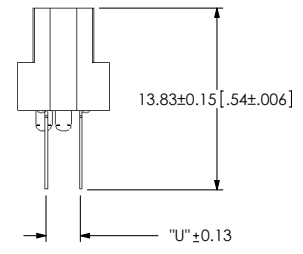


OPTION	No OF POS	"R"	"S"
NONE	-10 THRU -30	(No OF POS x 0.80[.0315]) + 4.60[.181] REF	
	-13, -25, -37, -40 THRU -100	(No OF POS x 0.80[.0315]) + 7.80[.307] REF	
**L	-13, -25, -37, & -49	(No OF POS x 0.80[.0315]) + 18.40[.724] REF	((R" - "K") / 2) +/- 0.51[.020]
**BL	-10 THRU -30	(No OF POS x 0.80[.0315])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

CARD THICKNESS	BODY	KAPTON TYPE "K"	"U"	"H"
-01	HSEC8-XXX-01-DV-XX	K-DOT-217-313-005	2.61 [102]	0.45 [018]
-02	HSEC8A-XXX-02-DV-XX	K-DOT-217-313-005	3.04 [120]	0.24 [009]
-03	HSEC8A-XXX-03-DV-XX	K-DOT-246-375-005	3.40 [134]	0.43 [017]
*-04	HSEC8A-XXX-04-DV-XX	K-DOT-246-375-005	4.22 [166]	0.40 [016]

* = NOT RELEASED FOR PRODUCTION



IN-PROCESS

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<p>DO NOT SCALE DRAWING</p>	<p>DESCRIPTION: 0.8mm HIGH SPEED ASSEMBLY</p>	
<p>SHEET SCALE: 2.25:1</p>	<p>DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX</p>	
	<p>BY: BRATCHER 01/24/03</p>	<p>SHEET 2 OF 7</p>

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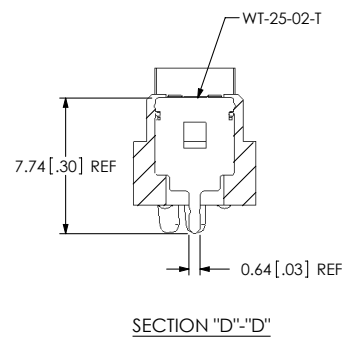
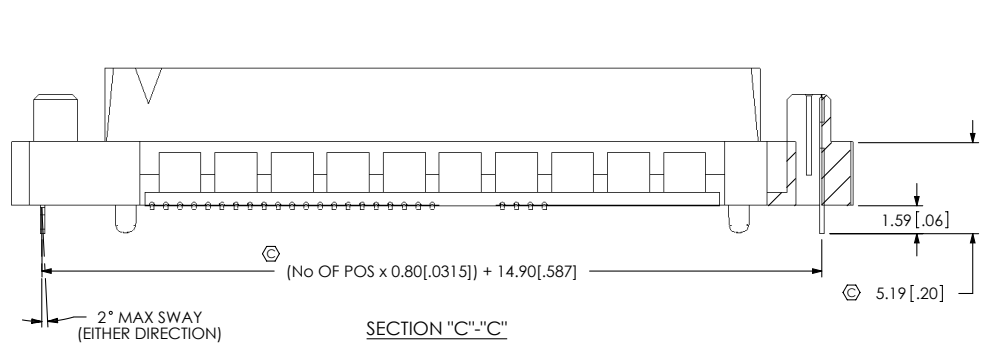
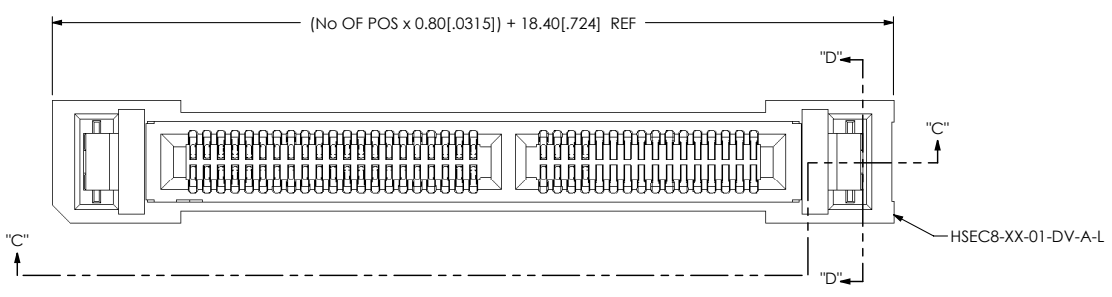


FIG 4
 **L: LATCHING OPTION
 AVAILABLE IN -13, -25, -37 & -49 POSITIONS ONLY
 NOT AVAILABLE FOR -GR TYPE USE
 (SAME AS FIG. 2, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-137-01-XX-DV-A-L)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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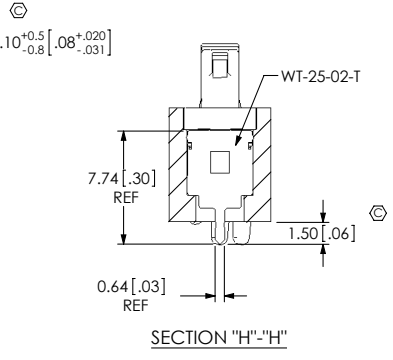
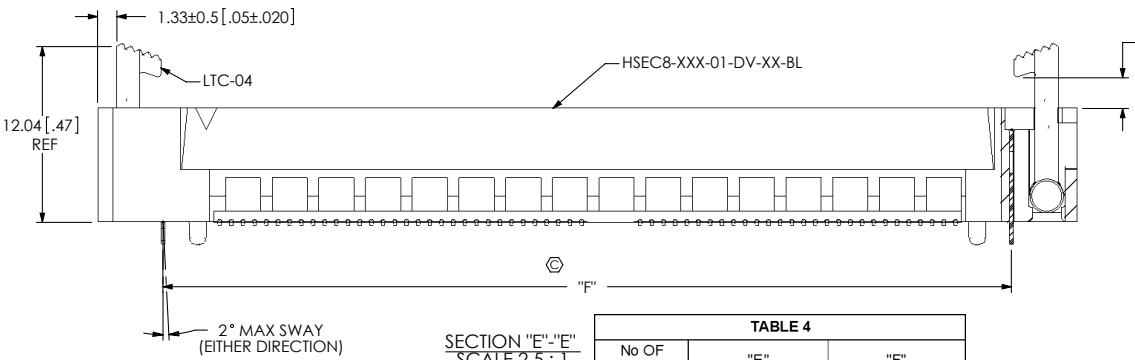
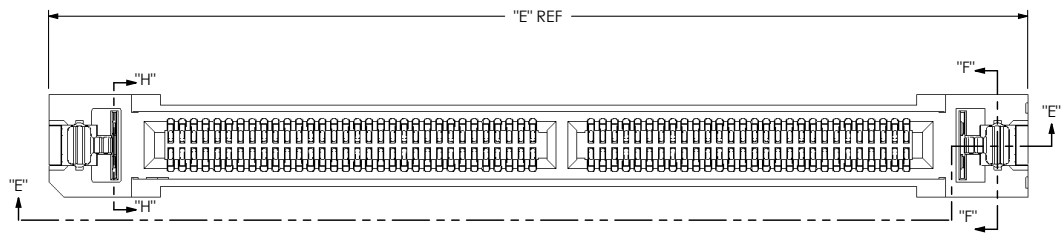
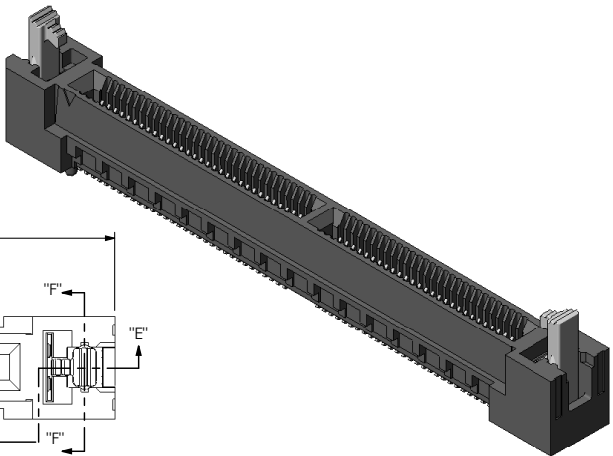
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SHEET SCALE: 3:1

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DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX	
BY: BRATCHER 01/24/03	SHEET 3 OF 7

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

SECTION "H"- "H"

No OF POSITIONS	TABLE 4	
	"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]

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SHEET SCALE: 2.5:1

DESCRIPTION: 0.8mm HIGH SPEED ASSEMBLY
DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX
BY: BRATCHER 01/24/03 SHEET 4 OF 7

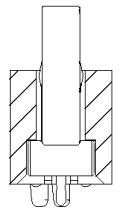


FIG 5
**-BL: BOARD LOCK OPTION
NOT AVAILABLE FOR -GR TYPE USE
(SAME AS FIG. 2, UNLESS OTHERWISE STATED)
(SHOWN: HSEC8-160-01-XX-DV-A-BL)
(** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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

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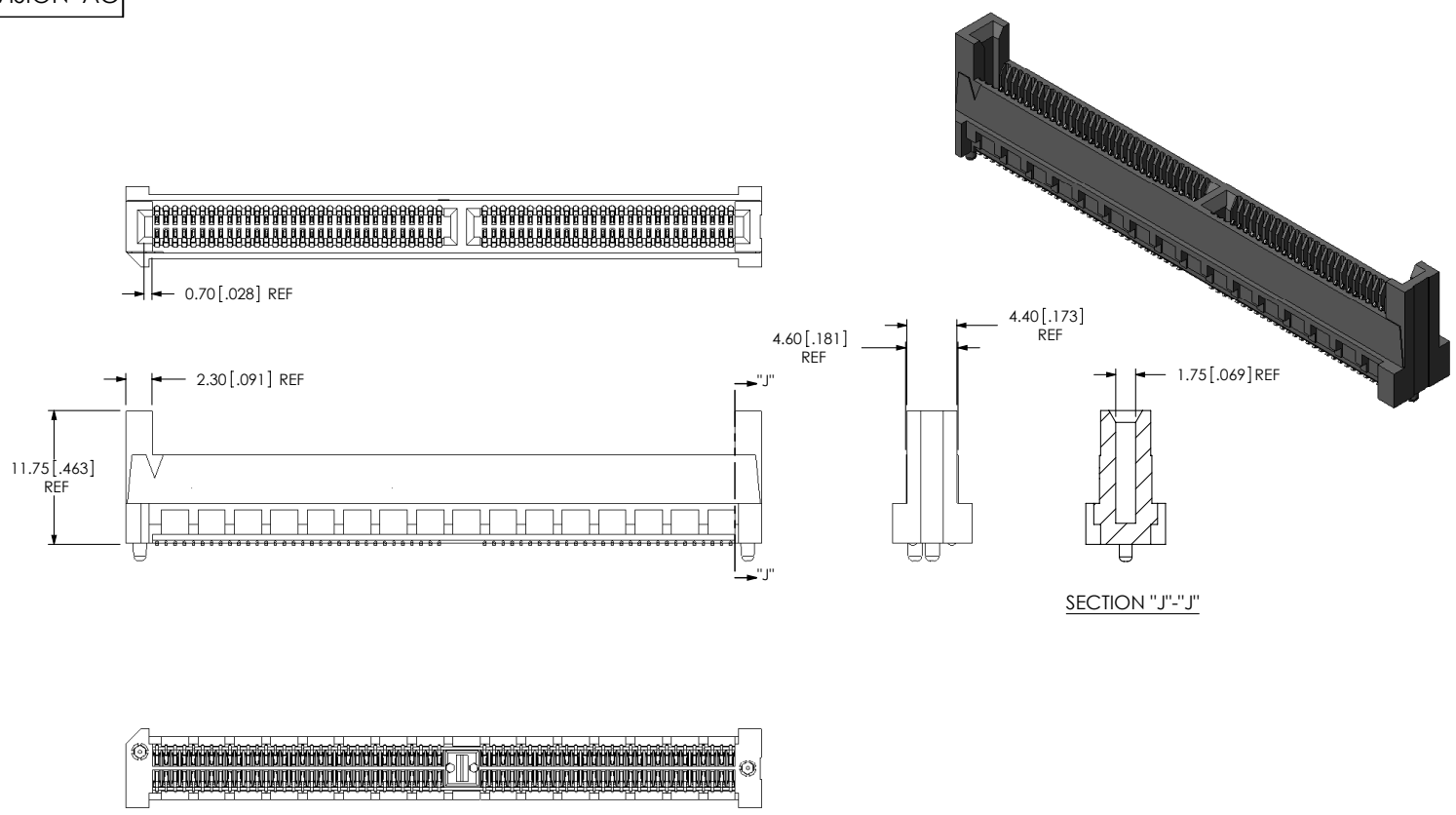



FIG 6
 ** -GR: GUIDE RAILS OPTION
 AVAILABLE IN -10, -20, -30, -40, -50, & -60 POSITIONS ONLY
 NOT AVAILABLE FOR -L; -BL TYPE USE
 (SAME AS FIG. 2, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-160-01-XX-DV-A-GR)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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DWG. NO.	HSEC8-1XXX-XX-XX-DV-X-XX
BY: BRATCHER 01/24/03	SHEET 5 OF 7

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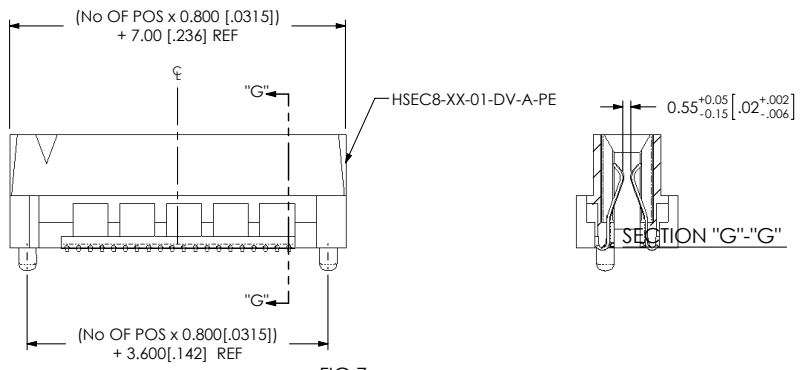


FIG 7
 **-PE: PASS THROUGH OPTION
 AVAILABLE IN -10, -13 & -20 POSITIONS ONLY
 (SAME AS FIG. 1, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-120-01-XX-DV-A-PE)
 ** = AVAILABLE ONLY WITH -01 CARD THICKNESS

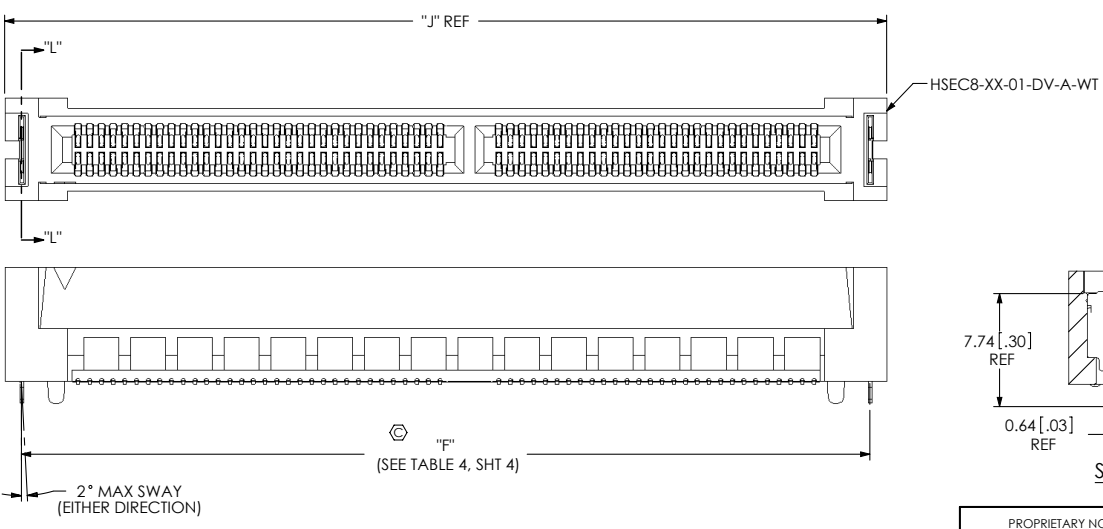


FIG 8
 -WT: WELD TAB OPTION
 AVAILABLE IN ALL POSITIONS
 (-A OPTION REQUIRED)
 (SAME AS FIG. 5, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-160-01-XX-DV-A-WT)

** = AVAILABLE ONLY WITH -01 CARD THICKNESS

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DWG. NO.	HSEC8-1XXX-XX-XX-DV-X-XX
BY: BRATCHER 01/24/03	SHEET 6 OF 7

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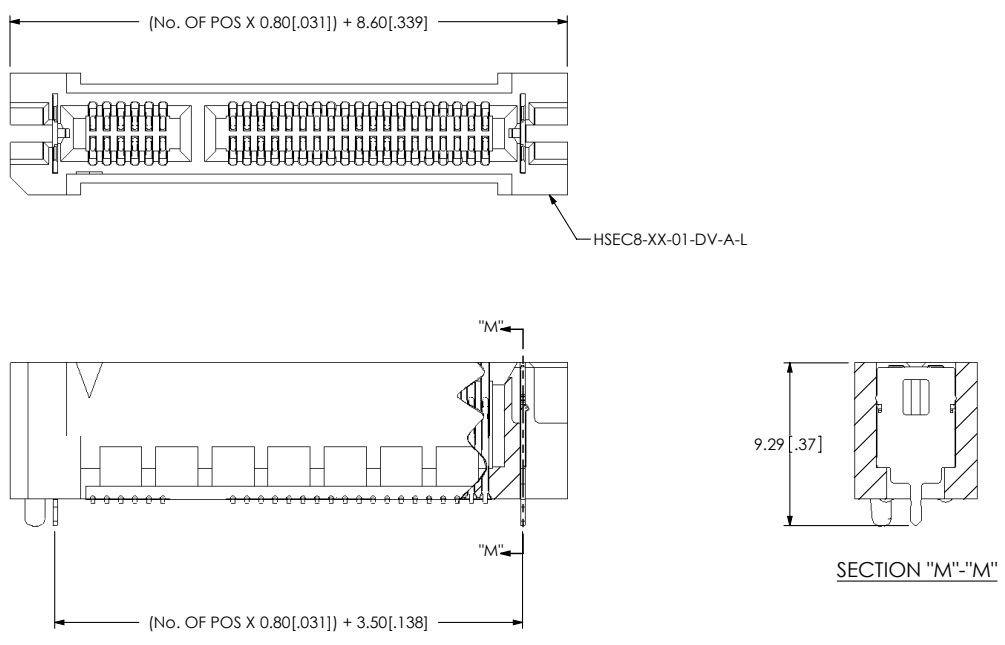



FIG 9
 **L2: ECDP LATCHING OPTION
 (AVAILABLE IN **26, **50, **74 & **98 POS ONLY)
 NOT AVAILABLE FOR -GR TYPE USE
 (SAME AS FIG. 2, UNLESS OTHERWISE STATED)
 (SHOWN: HSEC8-137-01-XX-DV-A-L2)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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	DESCRIPTION: 0.8mm HIGH SPEED ASSEMBLY	
	DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX	
	BY: BRATCHER 01/24/03	SHEET 7 OF 7

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