

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

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

DO NOT
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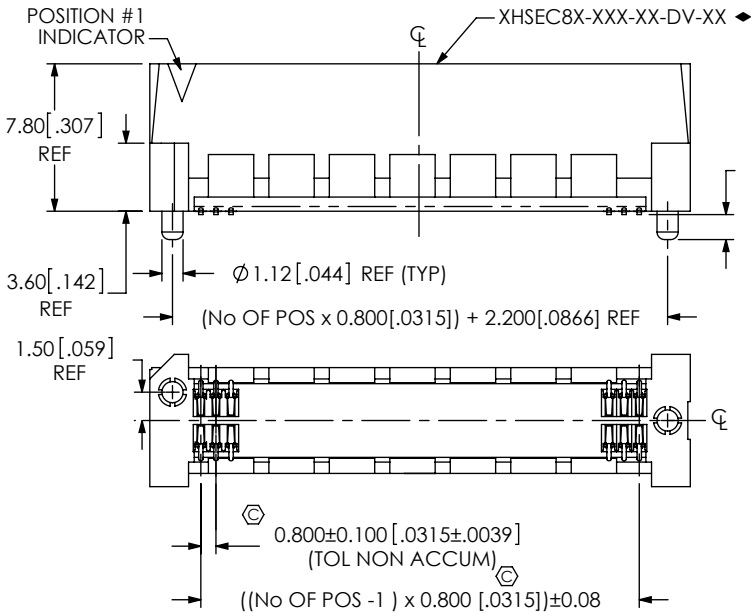
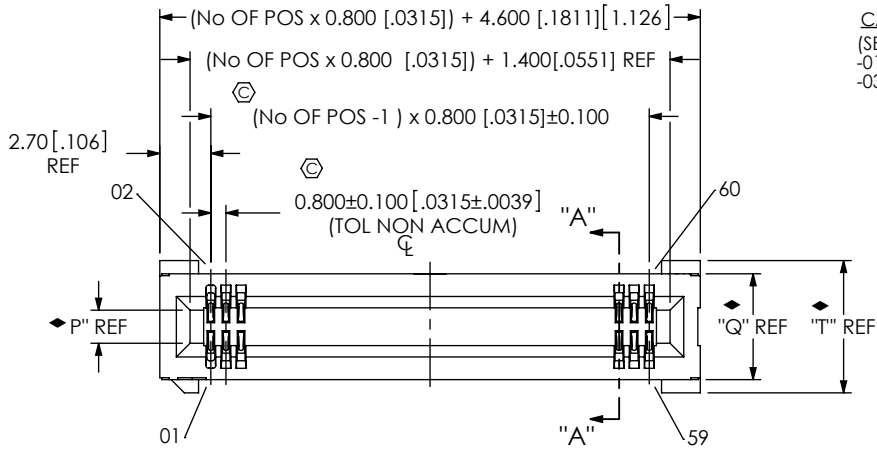


FIG 1
FOR POSITIONS -10, -20 & -30
HSEC8-130-01-XX-DV-A SHOWN
(SOME FEATURES NOT SHOWN FOR CLARITY)
◆=(SEE TABLE 9, SHT 3)
(SEE NOTE 12)

No OF POSITIONS (PER ROW)
 -10, -20, -30 (SEE FIG 1)
 ■-09, -13, -25, -37, -49, -60, -70, -80, -90, -100 (SEE FIG 2, SHT 2)

CARD THICKNESS
 (SEE TABLE 9, SHT 3)
 -01: 1.57 [0.062] CARD
 -03: 2.36 [0.093] CARD
 (10-100 POS, MULTIPLES OF 10 ONLY)
 (-K & -TR ONLY FOR OPTION 2)
 (USE RHSEC8-XXX-03-DV-XX)
 (SEE NOTE 7 & 10)

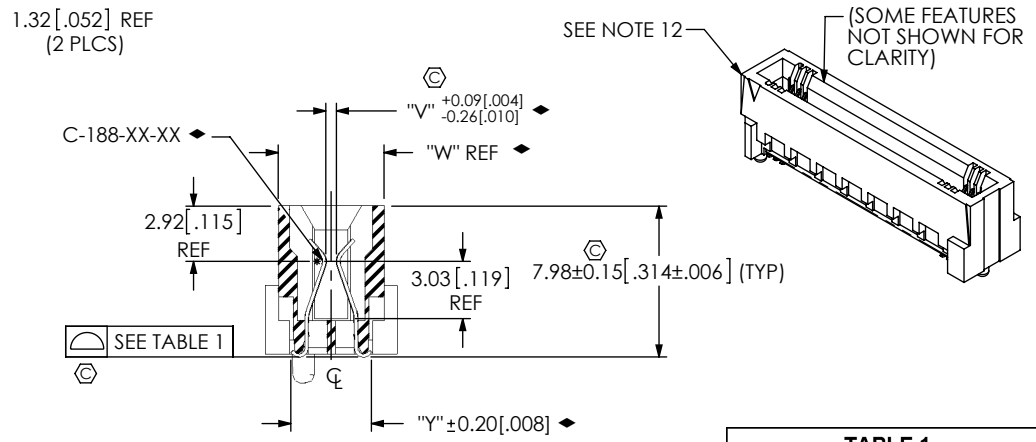
PLATING SPECIFICATION
 -SM: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -H: 30μ" HEAVY GOLD IN CONTACT AREA, 3μ" GOLD TAIL
 -S: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -L: 10μ" LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL

ROW SPECIFICATION
 -DV: DOUBLE VERTICAL

OPTION 2
 **-PE: PASS THROUGH (SHT 7, FIG 7) (10, 13, & 20 POS ONLY) (-A OPTION ONLY) (NOT AVAILABLE WITH ANY OTHER OPTION 2, EXCEPT -K AND/OR -TR)
 **-BL: BOARD LOCK (SHT 5, FIG 5) (SEE NOTE 11)
 **-GR: GUIDE RAILS (SHT 6, FIG 6) (10-60 POS, MULTIPLES OF 10 ONLY) (SEE NOTE 11) (-TR PACKAGING ONLY)
 -WT: WELD TAB (SHT 7, FIG 8) (-A OPTION ONLY)
 **-L: LATCHING (SHT 4, FIG 4) (13, 25, 37, & 49 POS ONLY) (SEE NOTE 11)
 **-L2: ECDP LATCHING (SHT 8, FIG 9) (09, 13, 25, & 49 POS ONLY) (SEE NOTE 11)
 -K: POLYIMIDE FILM PAD (SEE SHT 2, FIG 3)
 -TR: TAPE & REEL (09 THRU 70 POS ONLY) (LEAVE BLANK FOR TRAY)

OPTION 1
 (LEAVE BLANK FOR NO ALIGNMENT PIN, USE XHSEC8-XXX-01-DV-LC, NOT AVAILABLE FOR CARD THICKNESS -02 & -03 SEE FIG 10, SHT 3)
 -A: ALIGNMENT PIN (USE XHSEC8X-XXX-XX-DV-A)

** = AVAILABLE ONLY WITH -01 CARD THICKNESS
 ■ = AVAILABLE ONLY WITH END OPTIONS -BL, -WT, & -L2



SECTION "A"- "A"

No OF POS	COPLANARITY
-10 THRU -60	0.102 [0.0040]
-70 THRU -100	0.152 [0.0060]

- NOTES:**
1. © REPRESENTS A CRITICAL DIMENSION.
 2. BURR ALLOWANCE: 0.04 [0.0015] 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, UNLESS -TR IS SPECIFIED.
 6. NOTE DELETED.
 7. MATING EDGE CARD THICKNESS TOLERANCE TO BE ± 0.15 [0.006] OF NOMINAL.
 8. NOTE DELETED.
 9. NOTE DELETED.
 10. MATING CARD MUST HAVE LEAD-IN. SEE SAMTEC FOOTPRINT FOR SPECIFICATIONS.
 11. L, L2, & BL IS NOT APPLICABLE FOR GUIDE RAIL TYPE USE. GR NOT APPLICABLE FOR L, L2, OR BL TYPE USE.
 12. CORNER VOIDS AT VENDOR DISCRETION, AND MAY OR MAY NOT BE PRESENT.
 13. MEASURE DIMENSION WITH LATCH IN LOCKED, PERPENDICULAR POSITION.
 14. VOID WIDTH, LOCATION, AND FREQUENCY TO BE AT VENDORS DISCRETION.

c:\enterprise\vault\DWG\MISC\WKTG\HSEC8-1XXX-XX-XX-DV-X-XX-MLT.DDDRW

<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.</p> <p>TOLERANCES ARE:</p> <p>DECIMALS ANGLES</p> <p>.X: ± .3 [01] 2°</p> <p>.XX: ± .13 [005]</p> <p>.XXX: ± .05 [0020]</p>	<p>PROPRIETARY NOTE</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.</p>	<p>DESCRIPTION:</p> <p>0.8mm HIGH SPEED EDGE CARD ASSEMBLY</p>	
		<p>MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2.5:1</p> <p>INSULATOR: LCP, COLOR: -01 CARD THICKNESS BLACK, -02 & -03 CARD THICKNESS NATURAL</p> <p>CONTACT: BeCu</p>	



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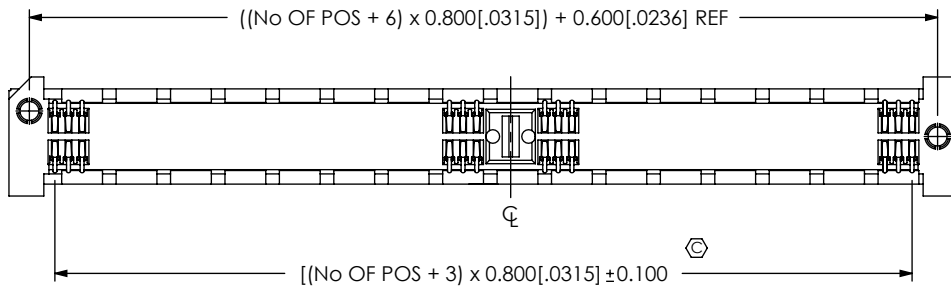
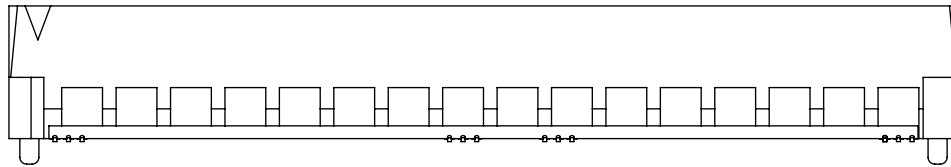
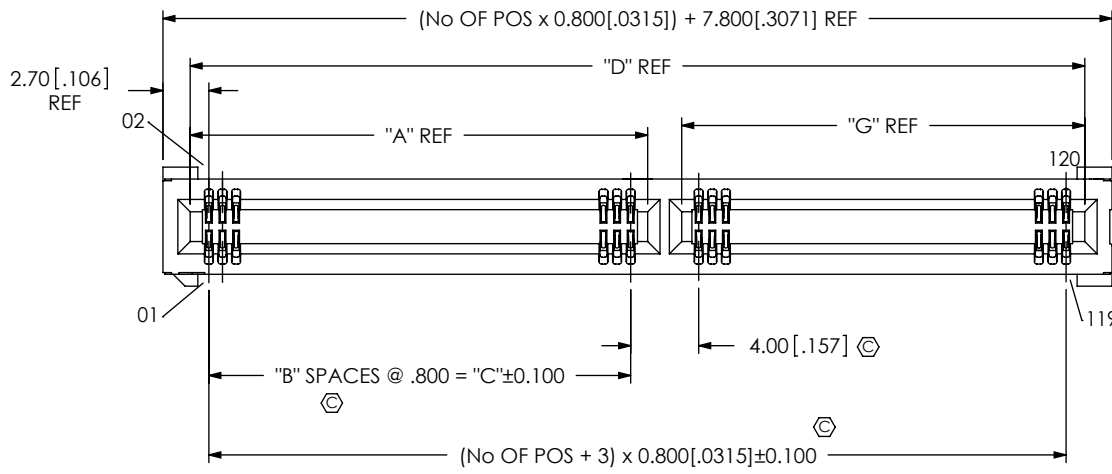


TABLE 2

No OF POS	"A"	"B"	"C"	"D"	"G"
■**-09	4.50 [.177]	3	2.400 [.0945]	11.80 [.465]	5.30 [.209]
**13	6.10 [.240]	5	4.000 [.1575]	15.00 [.591]	6.90 [.272]
**25	6.10 [.240]	5	4.000 [.1575]	24.60 [.969]	16.50 [.650]
**37	18.10 [.713]	20	16.000 [.6299]	34.20 [1.346]	14.10 [.555]
-40	18.90 [.744]	21	16.800 [.6614]	36.60 [1.441]	15.70 [.618]
**49	22.90 [.902]	26	20.800 [.8189]	43.80 [1.724]	18.90 [.744]
-50	22.90 [.902]	26	20.800 [.8189]	44.60 [1.756]	19.70 [.776]
-60	26.90 [1.059]	31	24.800 [.9764]	52.60 [2.071]	23.70 [.933]
-70	26.90 [1.059]	31	24.800 [.9764]	60.60 [2.386]	31.70 [1.248]
-80	26.90 [1.059]	31	24.800 [.9764]	68.60 [2.701]	39.70 [1.563]
-90	26.90 [1.059]	31	24.800 [.9764]	76.60 [3.016]	47.70 [1.878]
-100	26.90 [1.059]	31	24.800 [.9764]	84.60 [3.331]	55.70 [2.193]

** = AVAILABLE ONLY WITH -01 CARD THICKNESS

■ = AVAILABLE ONLY WITH END OPTIONS -BL, -WT & -L2

FIG 2
FOR POSITIONS ■**-09, **13, **25, **37, -40, **49, -50, -60, -70, -80, -90, -100
HSEC8-160-01-XX-DV-A SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(SOME FEATURES NOT SHOWN FOR CLARITY)
(** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

FIG 3
-K OPTION
(SOME FEATURES NOT SHOWN FOR CLARITY)

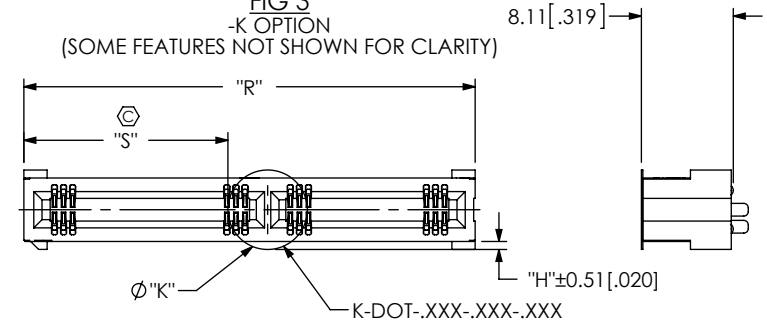


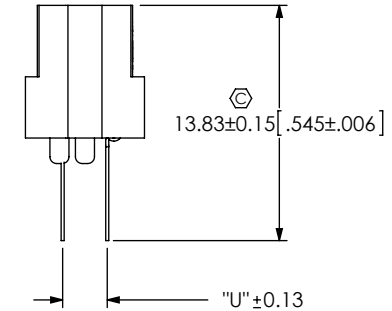
TABLE 3

OPTION 2	No OF POS	"R"	"S"
NONE	-10 THRU -30	(No OF POS x 0.800[.0315]) + 4.600[.1811] REF	
	-09, -13, -25, -37, -40 THRU -100	(No OF POS x 0.800[.0315]) + 7.800[.3071] REF	
-WT	-10 THRU -30	(No OF POS x 0.800[.0315]) + 9.200[.3622] REF	
	-13, -25, -37, -40 THRU -100	(No OF POS x 0.800[.0315]) + 12.400[.4882] REF	
**L	-13, -25, -37, & -49	(No OF POS x 0.800[.0315]) + 18.400[.7244] REF	((("R" - "K") / 2) + /-0.51[.020])
**BL	-10 THRU -30	(No OF POS x 0.800[.0315]) + 15.850[.6240] REF	
**PE	-09, -13, -25, -37, -40 THRU -100	(No OF POS x 0.800[.0315]) + 19.050[.7500] REF	
	-10, -13, & -20	(No OF POS x 0.800[.0315]) + 7.000[.2756] REF	
**GR	-10, -20, -30	(No OF POS x 0.800[.0315]) + 4.600[.1811] REF	
	-40, -50, -60	(No OF POS x 0.800[.0315]) + 7.800[.3071] REF	
**L2	-09, -13, -25, -49	(No OF POS x 0.800[.0315]) + 11.800[.4646] REF	

** = AVAILABLE ONLY WITH -01 CARD THICKNESS

TABLE 6

CARD THICKNESS	K-DOT-.XXX-.XXX-.XXX	"K"	"U"	"H"
-01	K-DOT-.276-.375-.005	7.01[.276]	2.61[.103]	0.705 [.0278]
-03	K-DOT-.246-.375-.005	6.25[.246]	3.40[.134]	0.070 [.0027]



IN-PROCESS

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SHEET SCALE: 2.25:1

DESCRIPTION:
0.8mm HIGH SPEED EDGE CARD ASSEMBLY

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

BY: BRATCHER 01/24/03 SHEET 2 OF 8

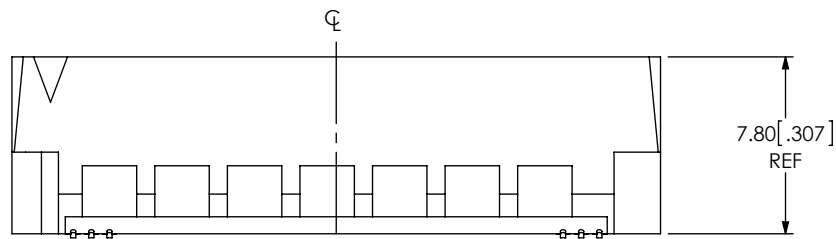


FIG 10
 **NON-ALIGNMENT PIN OPTION
 HSEC8-130-01-XX-DV SHOWN
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)
 (SOME FEATURES NOT SHOWN FOR CLARITY)

TABLE 9

CARD	OPTION 2	BODY	CONTACT	"P"	"Q"	"T"	"V"	"W"	"Y"
-01	-L	RHSEC8-XXX-01-DV-XX-L	C-188-02-X	1.75 [.069]	5.60 [.220]	7.00 [.276]	0.56 [.022]	5.60 [.220]	4.26 [.168]
	-L2	RHSEC8-XXX-01-DV-XX-L2	C-188-02-X					5.60 [.220]	
	-BL	RHSEC8-XXX-01-DV-XX-BL	C-188-02-X					5.60 [.220]	
	-GR	RHSEC8-XXX-01-DV-XX-GR	C-188-02-X					5.60 [.220]	
	-PE	HSEC8-XXX-01-DV-A-PE	C-188-01-X					4.60 [.180]	
	-WT	RHSEC8-XXX-01-DV-A-WT	C-188-02-X					5.60 [.220]	
	NONE	RHSEC8-XXX-01-DV-XX	C-188-02-X					5.60 [.220]	
-03	NONE	RHSEC8-XXX-03-DV-A	C-188-02-X	2.54 [.100]	6.39 [.252]	7.79 [.307]	1.35 [.053]	6.39 [.252]	5.05 [.199]
	-WT	RHSEC8-XXX-03-DV-A-WT	C-188-02-X						

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

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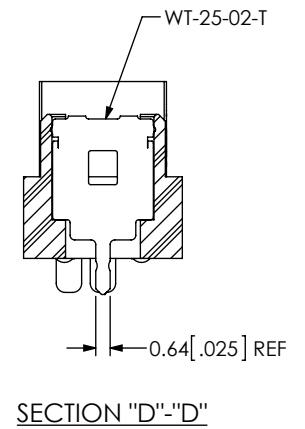
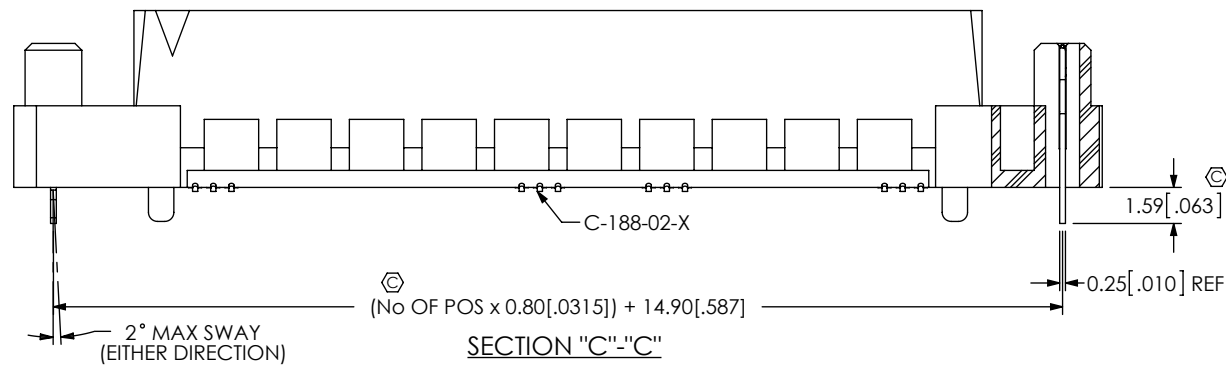
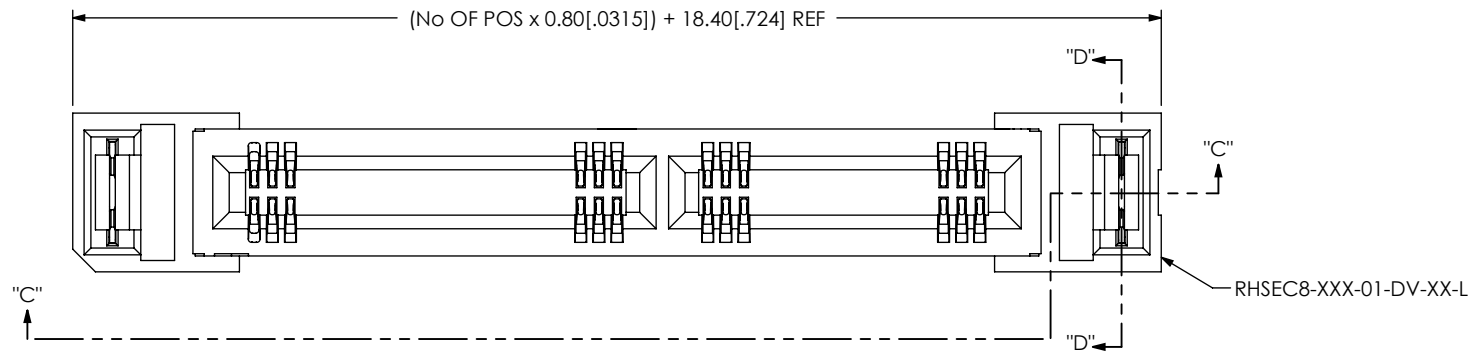


FIG 4
 **L: LATCHING OPTION
 HSEC8-137-01-XX-DV-A-L SHOWN
 AVAILABLE IN -13, -25, -37 & -49 POSITIONS ONLY
 (NOT AVAILABLE FOR -GR TYPE USE)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
 (SOME FEATURES NOT SHOWN FOR CLARITY)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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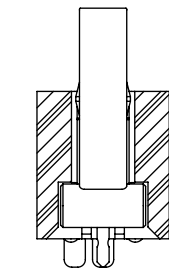
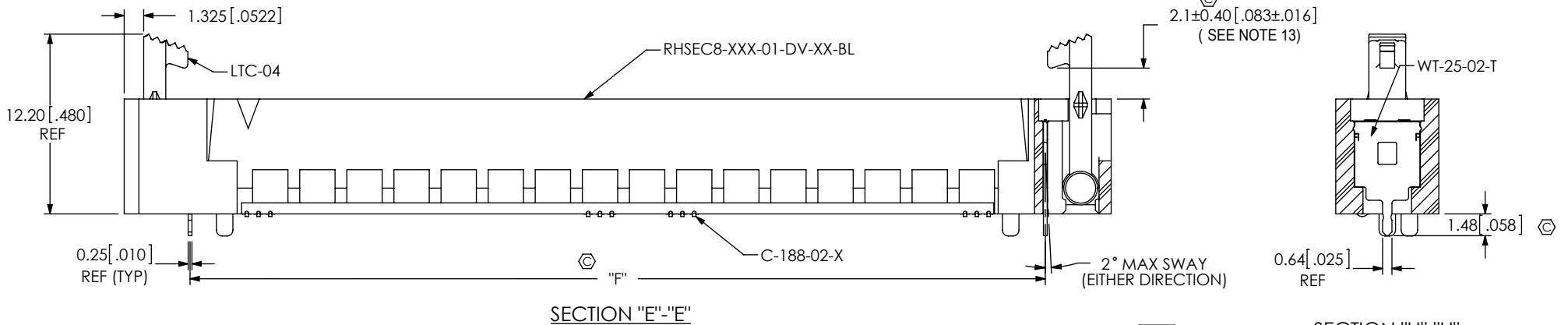
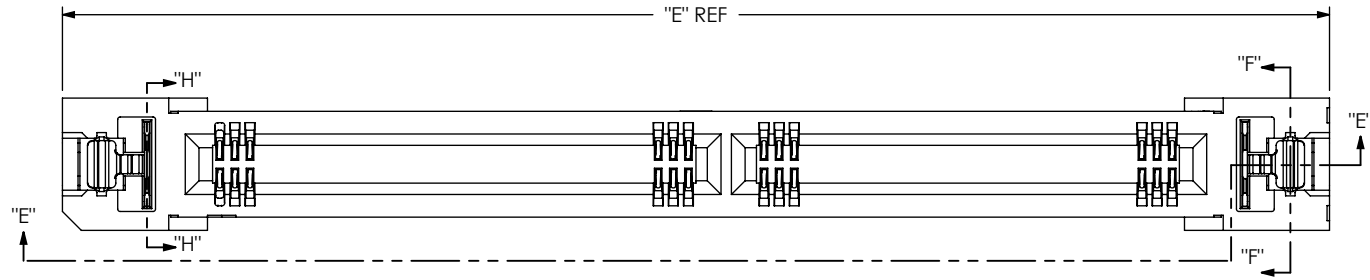
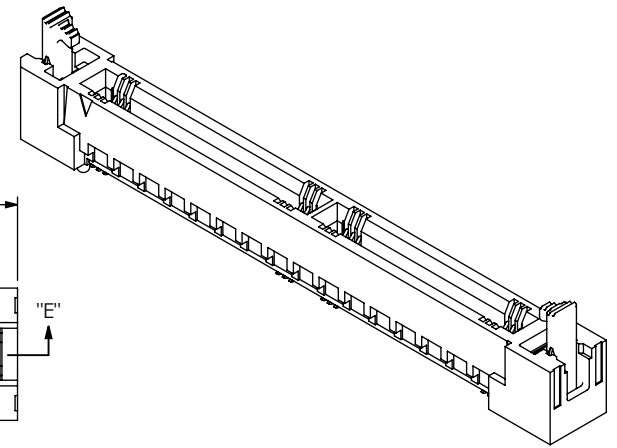


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DESCRIPTION:
 0.8mm HIGH SPEED EDGE CARD ASSEMBLY

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

BY: BRATCHER 01/24/03 SHEET 4 OF 8



SECTION "E"-"E"

SECTION "H"-"H"

SECTION "F"-"F"

No OF POSITIONS	"E"	"F"
-09	26.25 [1.033]	17.30 [0.681]
-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]

FIG 5

** -BL: BOARD LOCK OPTION
 HSEC8-160-01-XX-DV-A-BL SHOWN
 (NOT AVAILABLE FOR -GR TYPE USE)
 (FOR -09, -13, -25, 37, -40, -49, -50, -60, -70, -80, -90 & -100
 POSITIONS DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
 (FOR -10, -20 & -30 POSITIONS DIFFERENT AS SHOWN,
 OTHERWISE SAME AS FIG 1)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)
 (SOME FEATURES NOT SHOWN FOR CLARITY)
 (AVAILABLE IN ALL POSITIONS)

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DESCRIPTION:
 0.8mm HIGH SPEED EDGE CARD ASSEMBLY

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

BY: BRATCHER 01/24/03 SHEET 5 OF 8

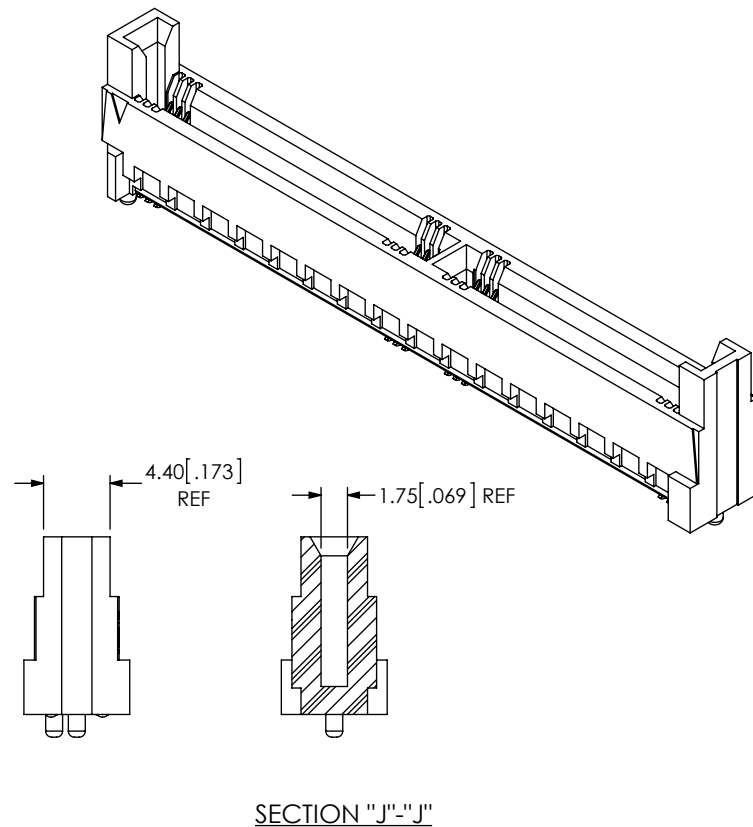
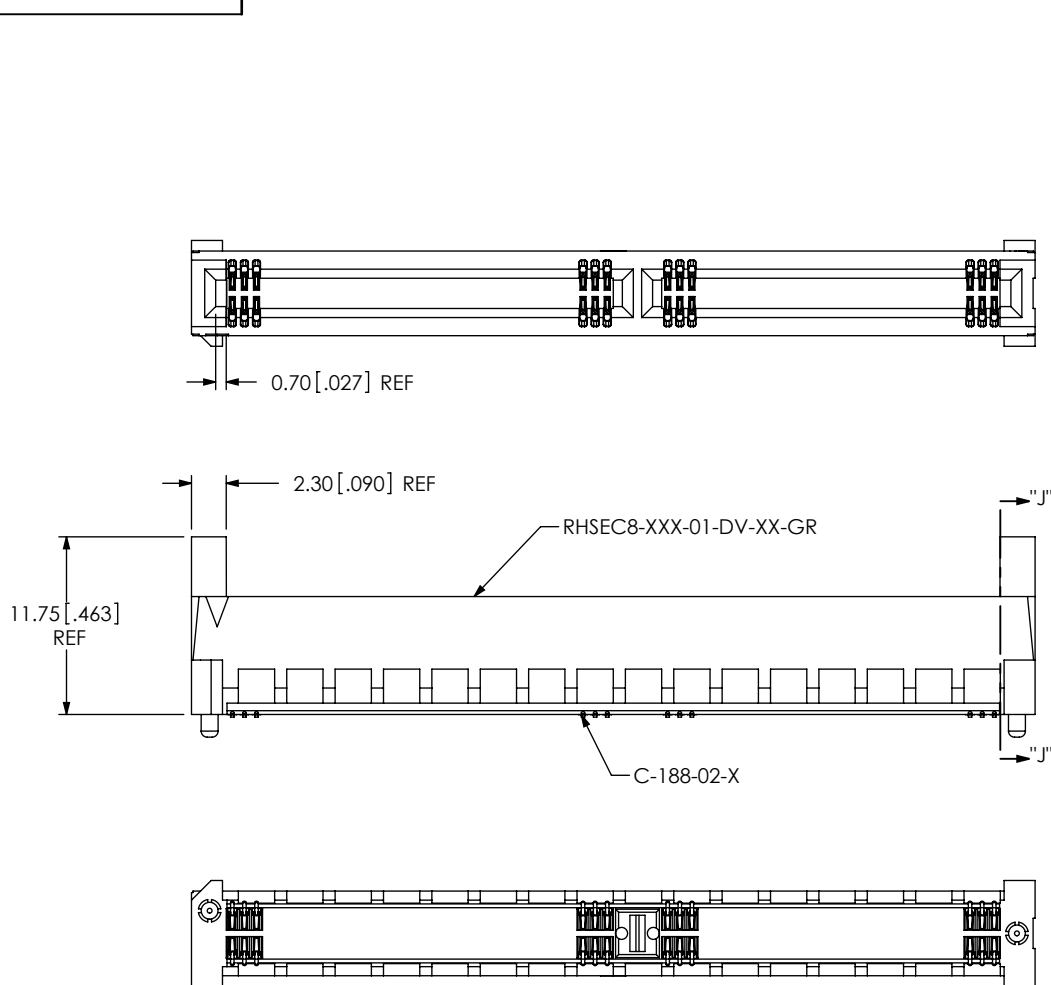



FIG 6
 **GR: GUIDE RAILS OPTION
 HSEC8-160-01-XX-DV-A-GR SHOWN
 AVAILABLE IN -10, -20, -30, -40, -50, & -60 POSITIONS ONLY
 (NOT AVAILABLE FOR -L; -BL TYPE USE)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
 (SOME FEATURES NOT SHOWN FOR CLARITY)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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	<p>DESCRIPTION: 0.8mm HIGH SPEED EDGE CARD ASSEMBLY</p>	
	<p>DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX</p>	
	<p>BY: BRATCHER 01/24/03</p>	<p>SHEET 6 OF 8</p>

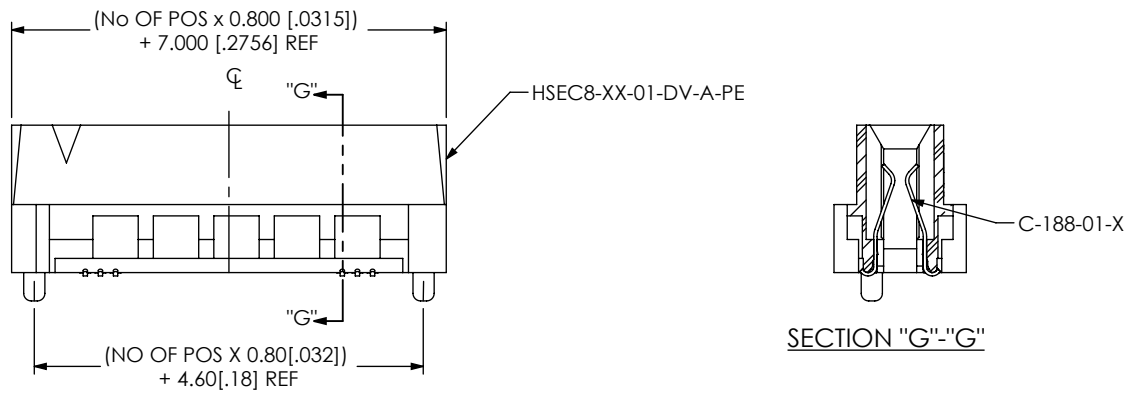


FIG 7
 **-PE: PASS THROUGH OPTION
 HSEC8-120-01-XX-DV-A-PE SHOWN
 AVAILABLE IN -10, *-13 & -20 POSITIONS ONLY
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (SOME FEATURES NOT SHOWN FOR CLARITY)
 ** = AVAILABLE ONLY WITH -01 CARD THICKNESS
 *-13 IS A ONE BANK PART

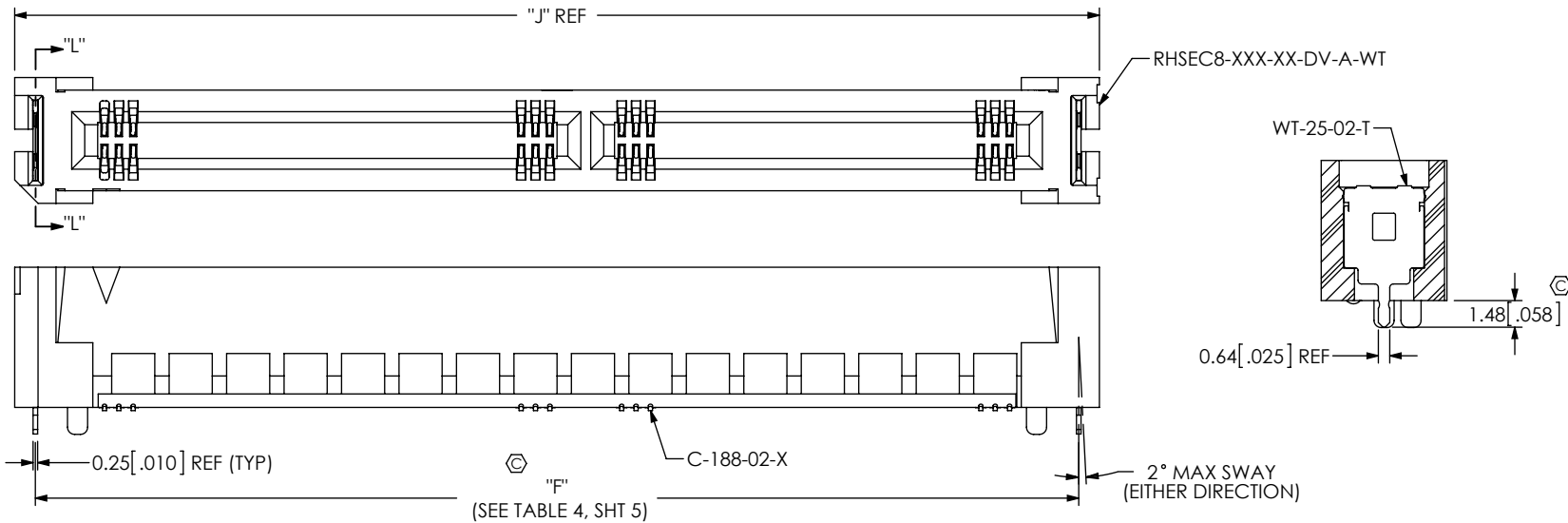


FIG 8
 -WT: WELD TAB OPTION
 HSEC8-160-01-XX-DV-A-WT SHOWN
 AVAILABLE IN ALL POSITIONS
 (-A OPTION REQUIRED)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
 (SOME FEATURES NOT SHOWN FOR CLARITY)

TABLE 7

No OF POSITIONS	"J"
-09	19.60 [0.772]
-10	17.20 [0.677]
-13	22.80 [0.898]
-20	25.20 [0.992]
-25	32.40 [1.276]
-30	33.20 [1.307]
-37	42.00 [1.654]
-40	44.40 [1.748]
-49	51.60 [2.031]
-50	52.40 [2.063]
-60	60.40 [2.378]
-70	68.40 [2.693]
-80	76.40 [3.008]
-90	84.40 [3.323]
-100	92.40 [3.638]

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DO NOT SCALE DRAWING

SHEET SCALE: 2.5:1

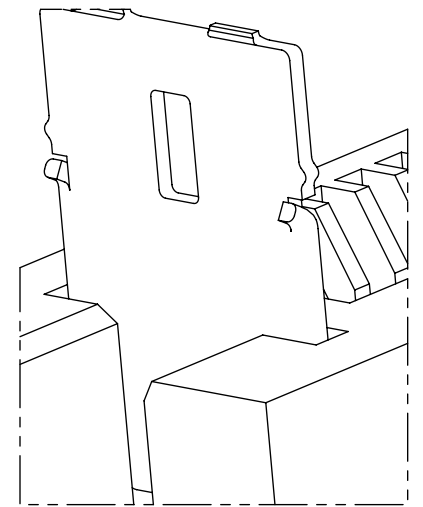
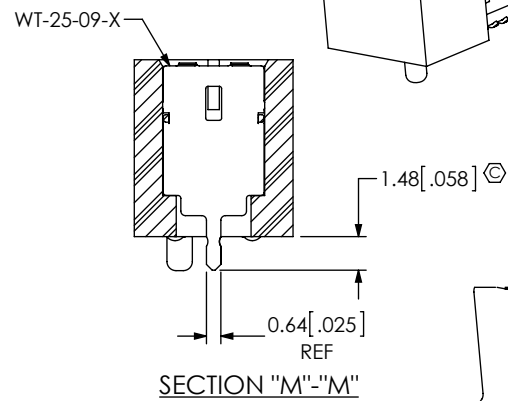
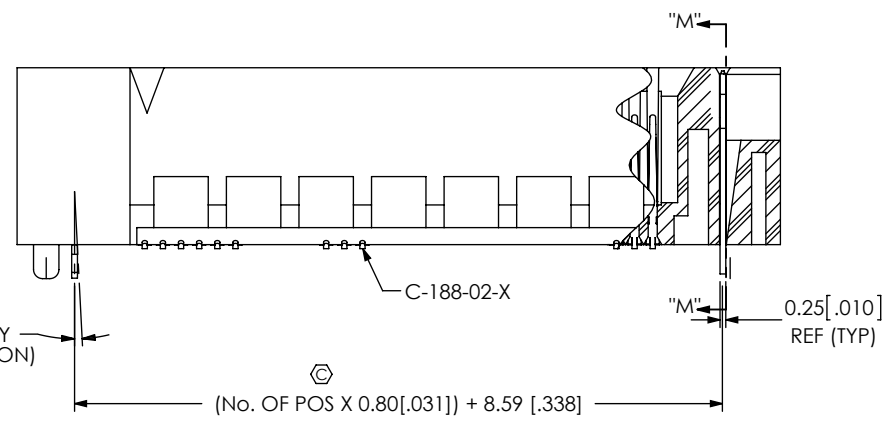
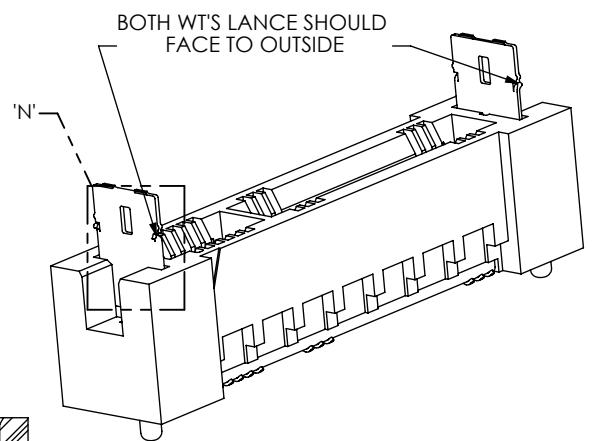
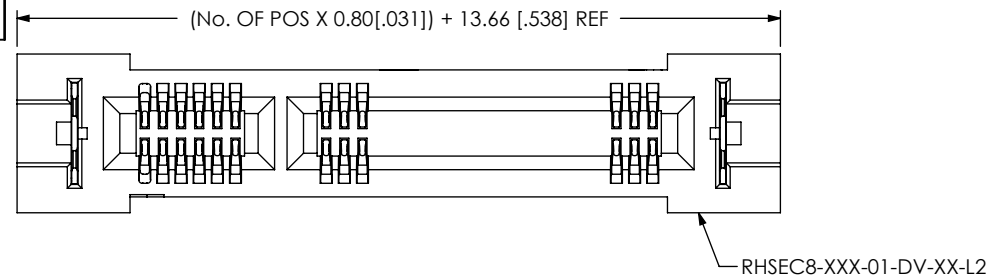


520 PARK EAST BLVD., NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
 0.8mm HIGH SPEED EDGE CARD ASSEMBLY

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

BY: BRATCHER 01/24/03 SHEET 7 OF 8



SCALE 10 : 1

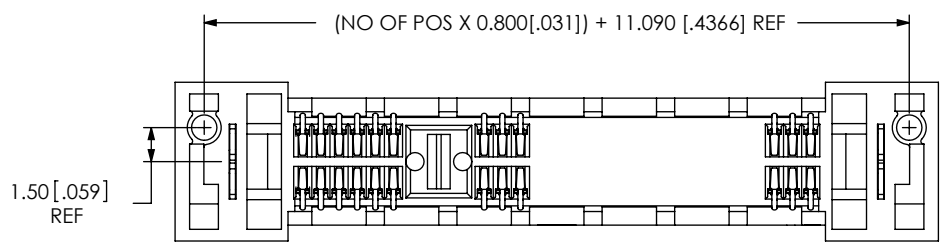


FIG 9
 **L2: ECDP LATCHING OPTION
 HSEC8-125-01-XX-DV-A-L2 SHOWN
 (AVAILABLE IN 9, 13, 25, & 49 POS ONLY)
 (NOT AVAILABLE FOR -GR TYPE USE)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)
 (SOME FEATURES NOT SHOWN FOR CLARITY)
 (** = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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

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	<p>DESCRIPTION: 0.8mm HIGH SPEED EDGE CARD ASSEMBLY</p>
	<p>DWG. NO. HSEC8-1XXX-XX-XX-DV-X-XX</p>
<p>BY: BRATCHER 01/24/03</p>	<p>SHEET 8 OF 8</p>