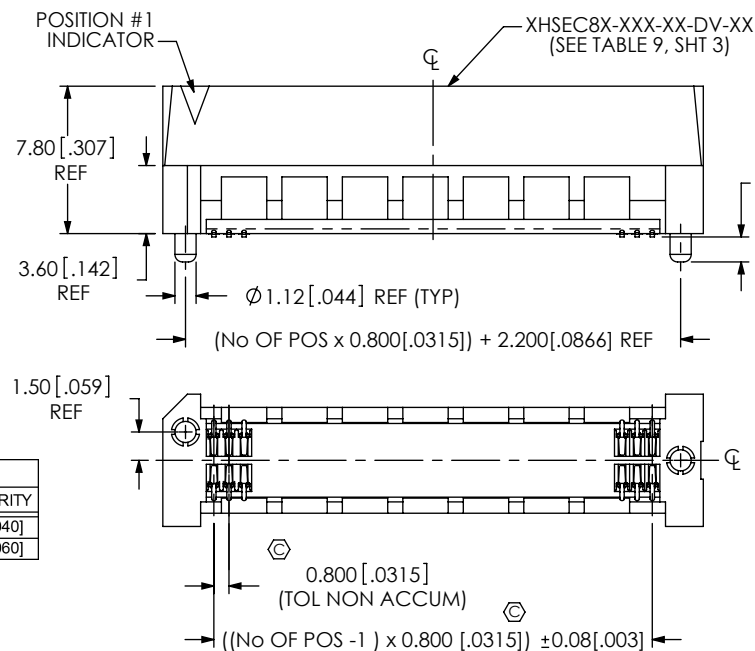
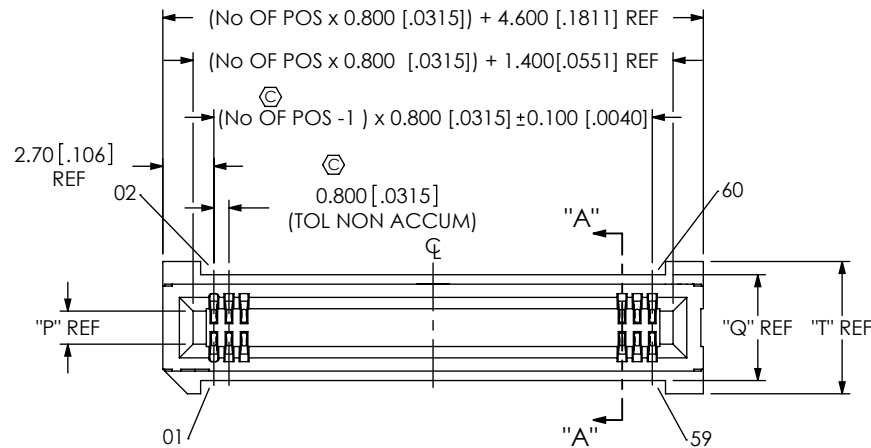


# DESIGNED & DIMENSIONED IN MILLIMETERS (INCHES FOR REFERENCE ONLY)

DO NOT  
SCALE FROM  
THIS PRINT



| TABLE 1       |               |
|---------------|---------------|
| No OF POS     | COPLANARITY   |
| -10 THRU -60  | 0.102 [.0040] |
| -70 THRU -100 | 0.152 [.0060] |

FIG 1  
FOR POSITIONS -10, -20 & -30  
HSEC8-130-01-XX-DV-A SHOWN  
(SOME FEATURES NOT SHOWN FOR CLARITY)

## NOTES:

1. Ⓢ 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, UNLESS -TR IS SPECIFIED.
6. NOTE DELETED.
7. MATING EDGE CARD THICKNESS TOLERANCE TO BE ±10% 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.

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

No OF POSITIONS  
-10, -20, -30 (PER ROW, SEE FIG 1)  
-09, -13, -25, -37, -49, -40, -50, -60, -70, -80, -90, -100 (PER ROW, SEE FIG 2, SHT 2)

CARD THICKNESS  
(SEE TABLE 9, SHT 3)  
-01: 1.57 [.062] CARD  
\*\*\*-02: 2.00 [.079] CARD  
(10-60 POS, MULTIPLES OF 10 ONLY)  
(-K & -TR ONLY FOR OPTION 2)  
(USE HSEC8A-XXX-02-DV-XX)  
\*\*\*-03: 2.36 [.093] CARD  
(10-60 POS, MULTIPLES OF 10 ONLY)  
(-K & -TR ONLY FOR OPTION 2)  
(USE HSEC8A-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

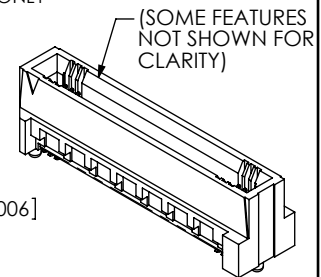
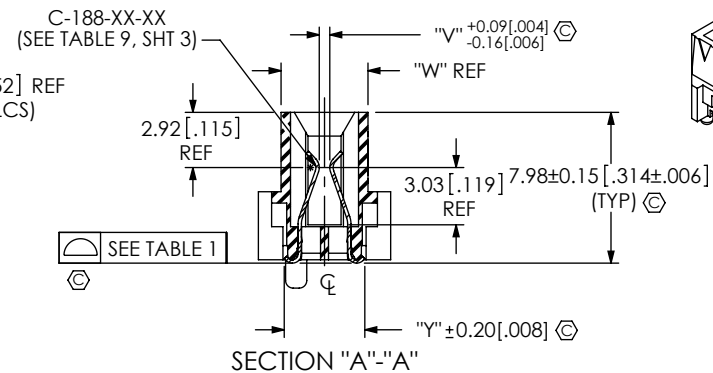
## ROW SPECIFICATION

\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS  
\*\*\* = FOR EXISTING CUSTOMER ONLY

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

-A: ALIGNMENT PIN  
(USE XHSEC8X-XXX-XX-DV-A)  
(LEAVE BLANK FOR NO ALIGNMENT PIN, USE XHSEC8-XXX-01-DV-LC, NOT AVAILABLE FOR CARD THICKNESS -02, -03, OR -04, SEE FIG 10, SHT 3)



| TABLE 6        |                                        |             |             |             |             |             |
|----------------|----------------------------------------|-------------|-------------|-------------|-------------|-------------|
| CARD THICKNESS | No OF POSITIONS                        | "P"         | "Q"         | "T"         | "V"         | "W"         |
| -01            | -09 THRU -37<br>EXCEPT -13, -20, & -25 | 1.75 [.070] | 5.60 [.220] | 7.00 [.280] | 0.56 [.022] | 4.60 [.180] |
|                | -09 THRU -100<br>WITH END OPTIONS      |             |             |             |             | 4.60 [.180] |
|                | -13, -20, -25, -40 THRU -100           |             |             |             |             | 5.60 [.220] |
| -02            | ALL APPLICABLE                         | 2.18 [.086] | 6.03 [.237] | 7.43 [.293] | 0.99 [.039] | 5.03 [.198] |
| -03            | ALL APPLICABLE                         | 2.54 [.100] | 6.39 [.252] | 7.79 [.307] | 1.35 [.053] | 5.39 [.212] |

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

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN MILLIMETERS.

## TOLERANCES ARE:

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

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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

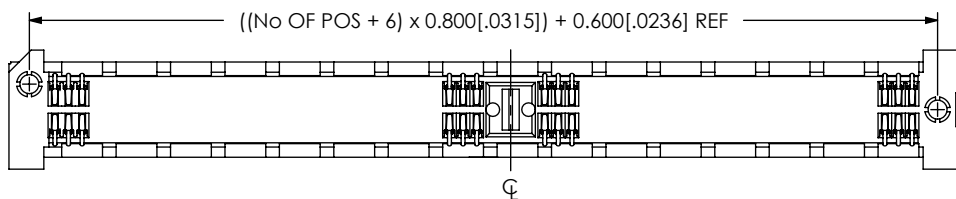
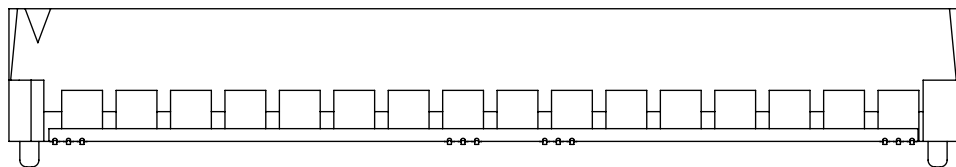
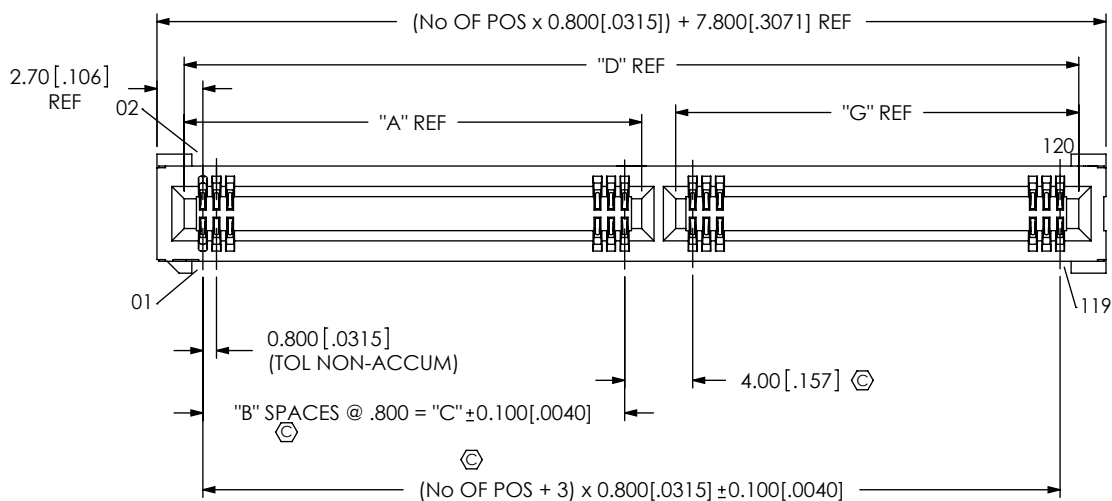
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520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:  
0.8mm HIGH SPEED EDGE CARD ASSEMBLY

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

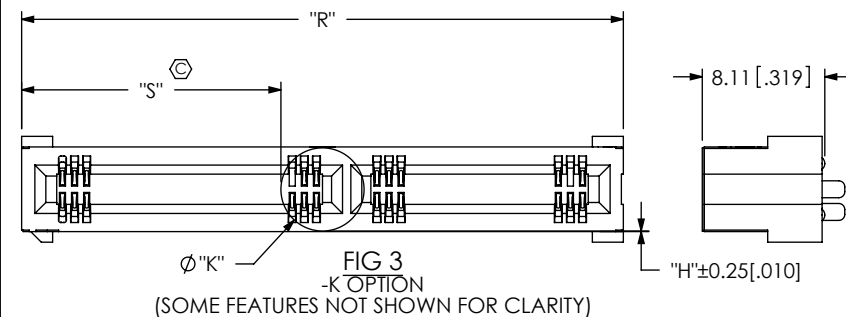
BY: BRATCHER 01/24/03 SHEET 1 OF 8



| TABLE 2   |              |     |               |              |              |
|-----------|--------------|-----|---------------|--------------|--------------|
| No OF POS | "A"          | "B" | "C"           | "D"          | "G"          |
| ** -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

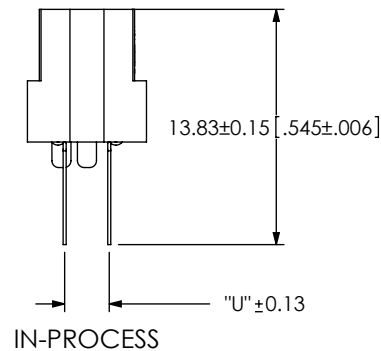
FIG 2  
FOR POSITIONS \*\* -13, \*\* -25, \*\* -37,  
-40, \*\* -49, -50, -60, \*\* -70, \*\* -80, \*\* -90, \*\* -100  
HSEC8-160-01-XX-DV-A SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
(\*\* = AVAILABLE ONLY WITH  
-.01 CARD THICKNESS)



| TABLE 3  |                              |                                                |                                    |
|----------|------------------------------|------------------------------------------------|------------------------------------|
| OPTION 2 | No OF POS                    | "R"                                            | "S"                                |
| NONE     | -10 THRU -30                 | (No OF POS x 0.800[.0315]) + 4.600[.1811] REF  | ((("R" - "K") / 2) + /-0.51[.020]) |
|          | -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 |                                    |
|          | -10 THRU -30                 | (No OF POS x 0.800[.0315]) + 15.850[.6240] REF |                                    |
| **-BL    | -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  |                                    |
| **-PE    | -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 | No OF POS      | KAPTON TYPE "K"   | "U"        | "H"         |
| -01            | -09 THRU -37   | K-DOT-217-313-005 | 2.61[.103] | 0.45[.018]  |
|                | -40 THRU -100  |                   |            | -0.04[.002] |
| -02            | ALL APPLICABLE | K-DOT-217-313-005 | 3.04[.120] | 0.24[.009]  |
| -03            | ALL APPLICABLE | K-DOT-246-375-005 | 3.40[.134] | 0.43[.017]  |



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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

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

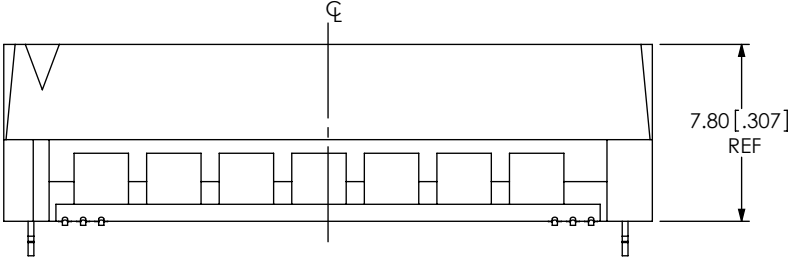


FIG 10  
\*\*NON-ALIGNMENT PIN OPTION  
HSEC8-130-01-XX-DV-LC SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS)  
(SOME FEATURES NOT SHOWN FOR CLARITY)

| TABLE 9 |          |                                      |                       |            |
|---------|----------|--------------------------------------|-----------------------|------------|
| CARD    | OPTION 2 | POS                                  | BODY                  | CONTACT    |
| -01     | -L       | ALL APPLICABLE                       | HSEC8-XXX-01-DV-XX-L  | C-188-01-X |
|         | -L2      | ALL APPLICABLE                       | HSEC8-XXX-01-DV-XX-L2 | C-188-01-X |
|         | -BL      | ALL APPLICABLE                       | HSEC8-XXX-01-DV-XX-BL | C-188-01-X |
|         | -GR      | ALL APPLICABLE                       | HSEC8-XXX-01-DV-XX-GR | C-188-01-X |
|         | -PE      | ALL APPLICABLE                       | HSEC8-XXX-01-DV-A-PE  | C-188-01-X |
|         | -WT      | ALL APPLICABLE                       | HSEC8-XXX-01-DV-A-WT  | C-188-01-X |
|         | NONE     | 09 THRU 37<br>EXCEPT -13, -20, & -25 | HSEC8-XXX-01-DV-XX    | C-188-01-X |
|         |          | -13, -20, -25, -40 THRU -100         | RHSEC8-XXX-01-DV-XX   | C-188-02-X |
| -02     | NONE     | ALL APPLICABLE                       | HSEC8A-XXX-02-DV-A    | C-188-01-X |
| -03     | NONE     | ALL APPLICABLE                       | HSEC8A-XXX-03-DV-A    | C-188-01-X |

|                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                       |              |
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|                                                                                                                                                                                                                                                                                                                                                                                                         | DESCRIPTION:<br>0.8mm HIGH SPEED EDGE CARD ASSEMBLY                                                                                                                                                                   |              |
|                                                                                                                                                                                                                                                                                                                                                                                                         | DWG. NO.<br>HSEC8-1XXX-XX-XX-DV-X-XX                                                                                                                                                                                  |              |
|                                                                                                                                                                                                                                                                                                                                                                                                         | BY: BRATCHER 01/24/03                                                                                                                                                                                                 | SHEET 3 OF 8 |

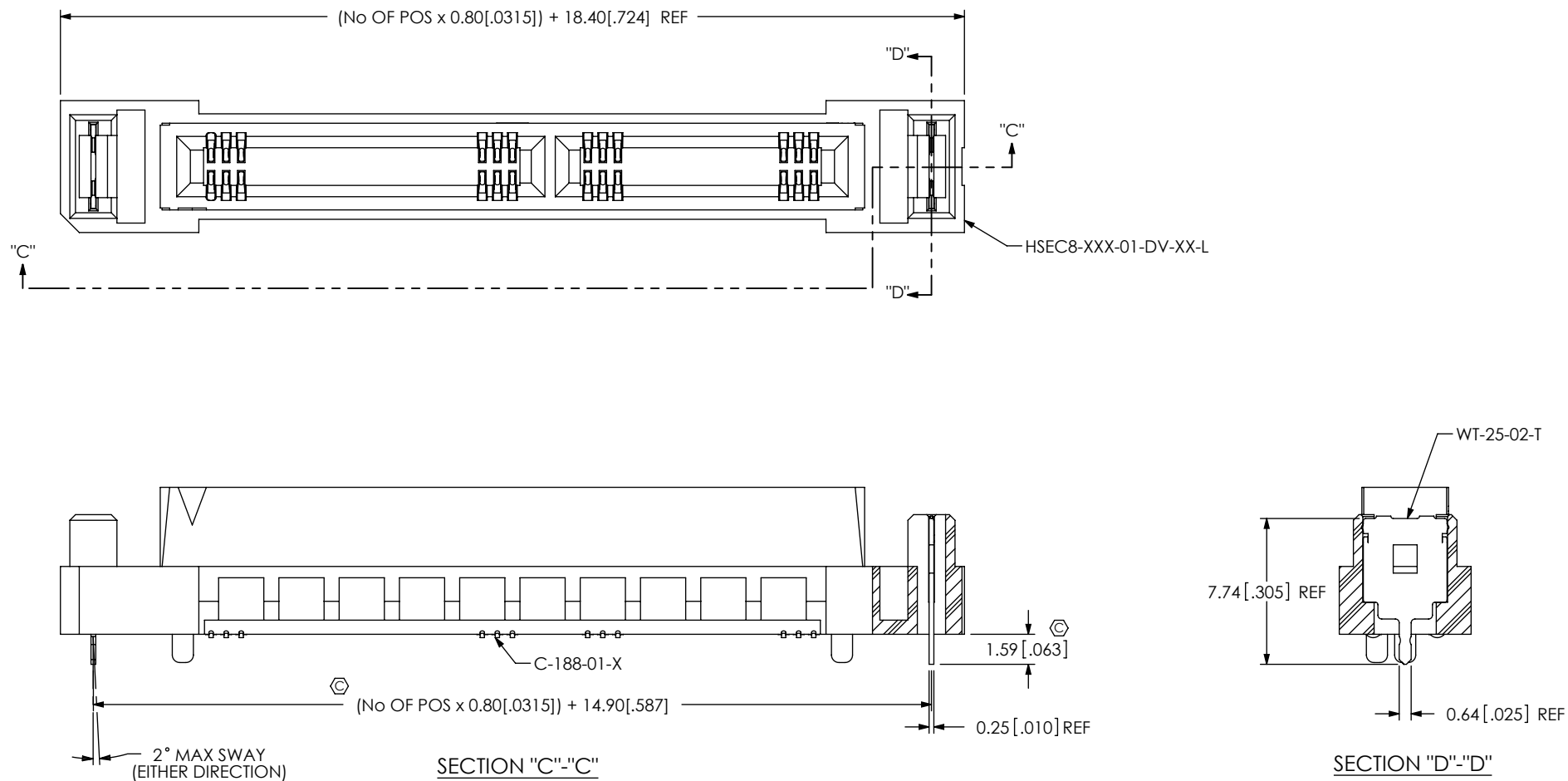


FIG 4  
 \*\*L: LATCHING OPTION  
 HSEC8-137-01-XX-DV-A-L SHOWN  
 AVAILABLE IN -13, -25, -37 & -49 POSITIONS ONLY  
 (NOT AVAILABLE FOR -GR TYPE USE)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)  
 (SOME FEATURES NOT SHOWN FOR CLARITY)  
 (\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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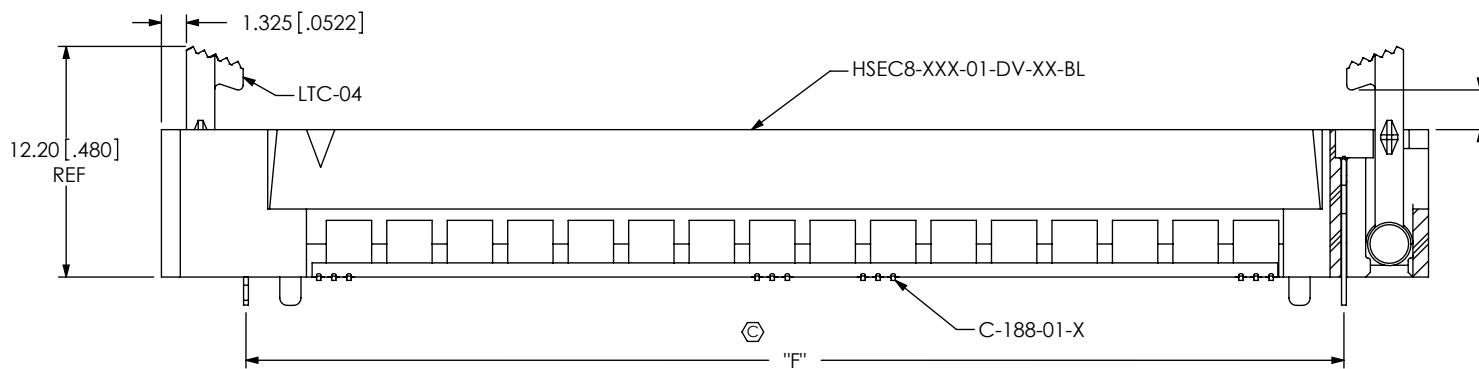
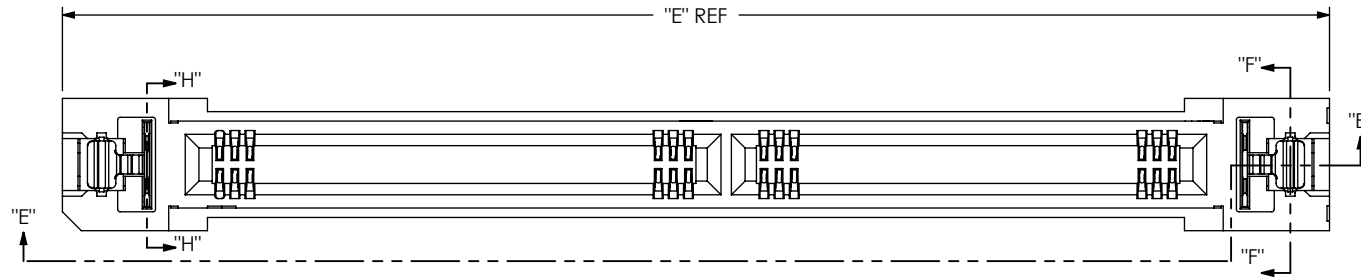
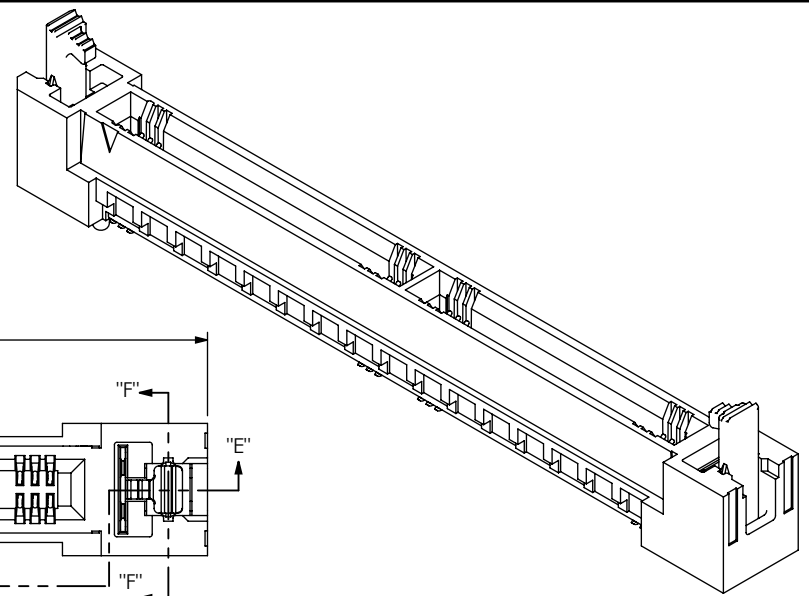
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 e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:  
 0.8mm HIGH SPEED EDGE CARD ASSEMBLY

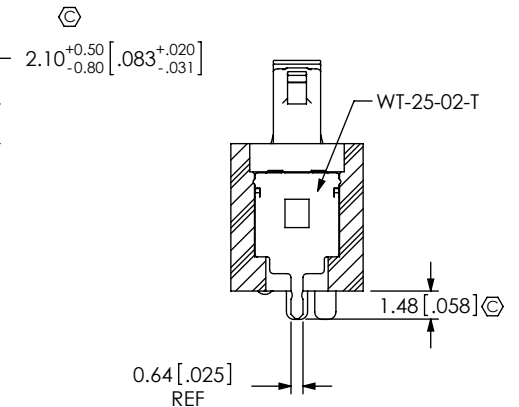
DWG. NO.  
**HSEC8-1XXX-XX-XX-DV-X-XX**

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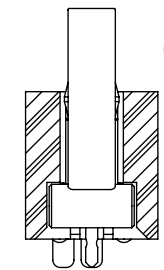
SHEET 4 OF 8



SECTION "E"-"E"



SECTION "H"-"H"



SECTION "F"-"F"

FIG 5  
 \*\*BL: BOARD LOCK OPTION  
 HSEC8-160-01-XX-DV-A-BL SHOWN  
 (NOT AVAILABLE FOR -GR TYPE USE)  
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 4)  
 (\*\* = AVAILABLE ONLY WITH -.01 CARD THICKNESS)  
 (SOME FEATURES NOT SHOWN FOR CLARITY)

| TABLE 4         |               |               |
|-----------------|---------------|---------------|
| 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

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 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 5 OF 8

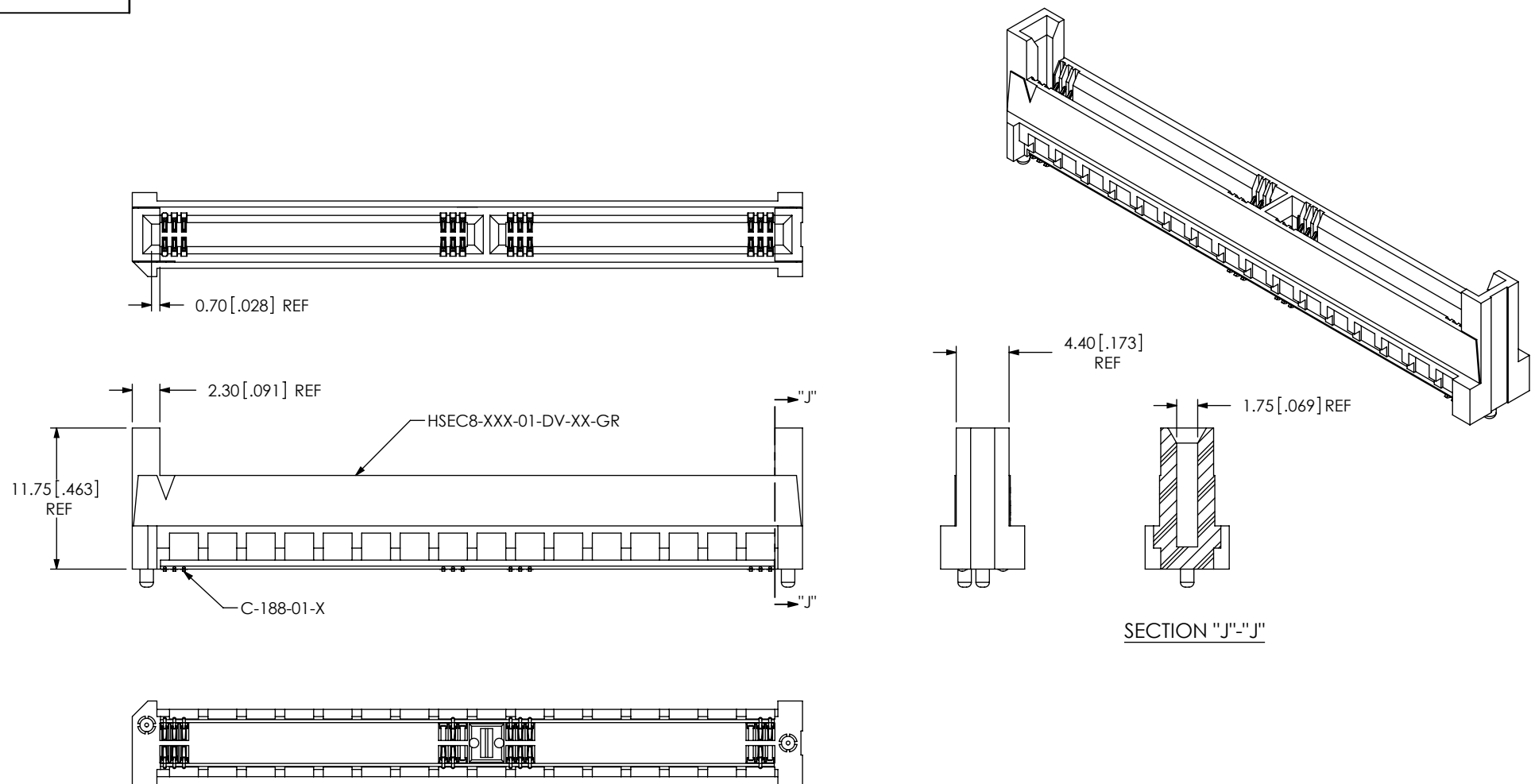


FIG 6  
\*\*-GR: GUIDE RAILS OPTION  
HSEC8-160-01-XX-DV-A-GR SHOWN  
AVAILABLE IN -10, -20, -30, -40, -50, & -60 POSITIONS ONLY  
(NOT AVAILABLE FOR -L; -BL TYPE USE)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
(\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS)

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

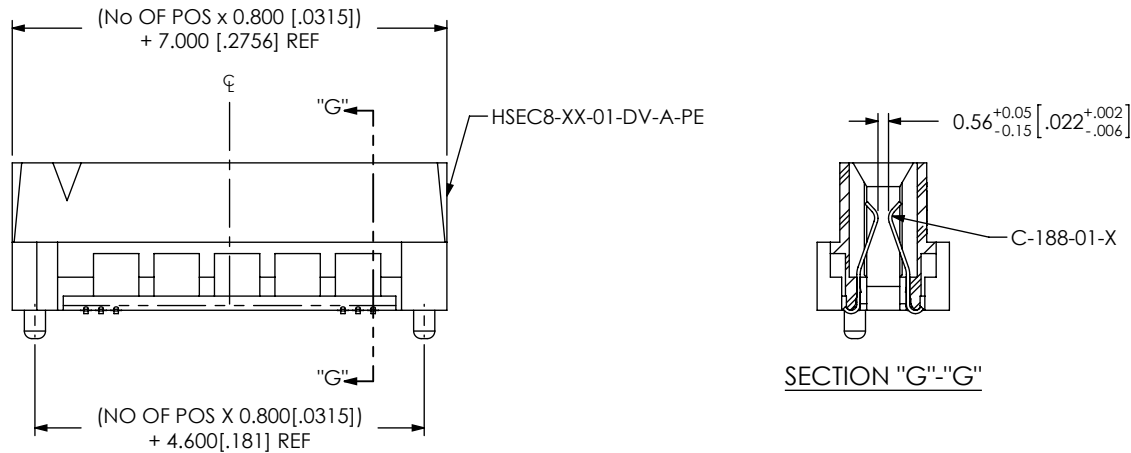


FIG 7  
\*\* PE: PASS THROUGH OPTION  
HSEC8-120-01-XX-DV-A-PE SHOWN  
AVAILABLE IN -10, -13 & -20 POSITIONS ONLY  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS

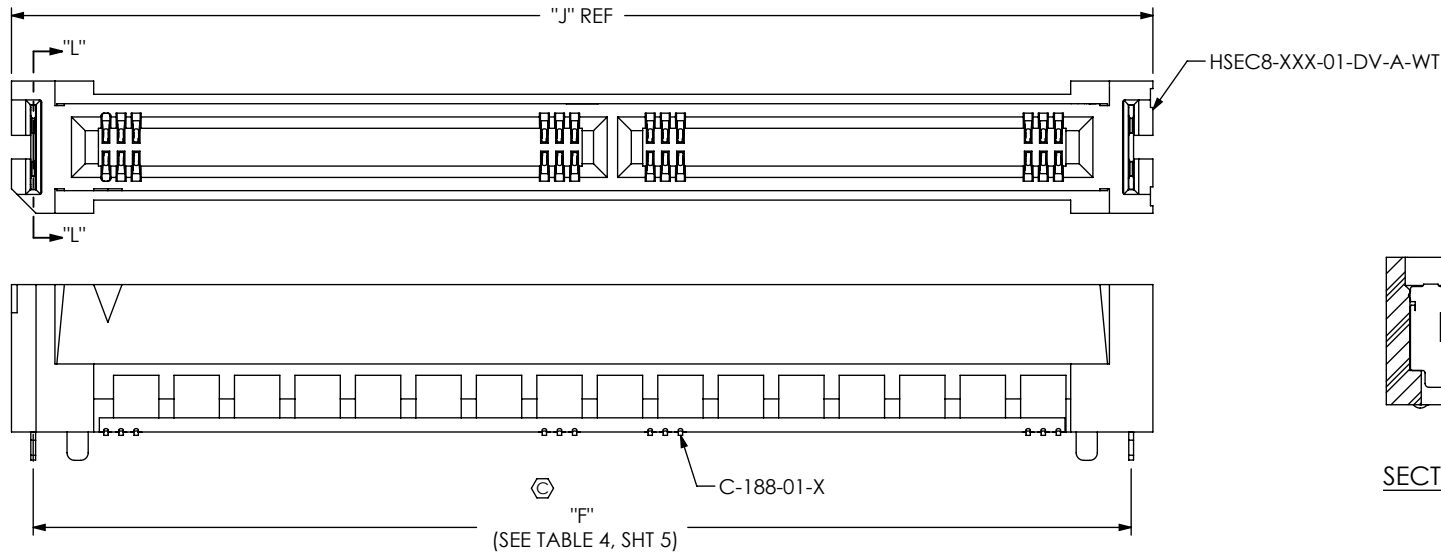


FIG 8  
\*\*-WT: WELD TAB OPTION  
HSEC8-160-01-XX-DV-A-WT SHOWN  
AVAILABLE IN ALL POSITIONS  
(-A OPTION REQUIRED)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 5)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS

| TABLE 7         |               |
|-----------------|---------------|
| No OF POSITIONS | "J"           |
| -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] |

\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS

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SHEET SCALE: 2.5:1

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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

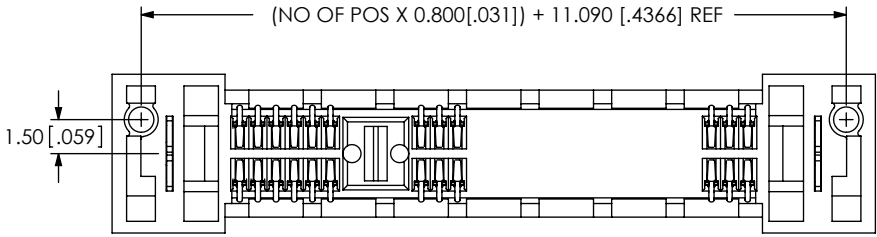
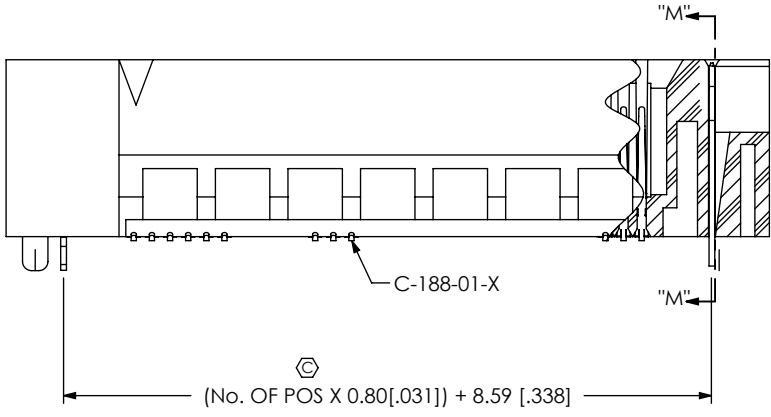
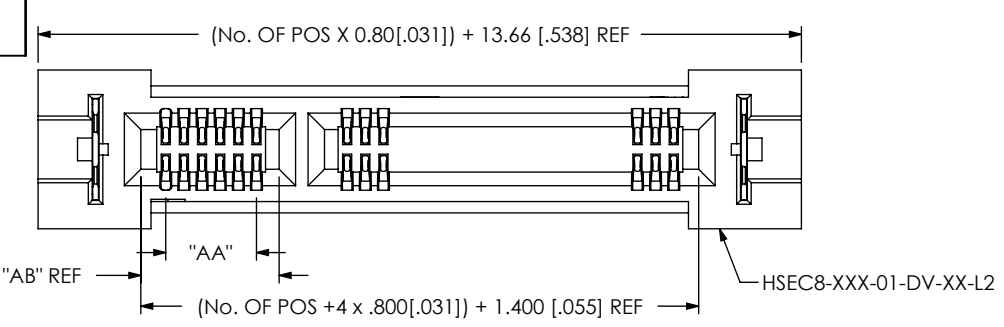
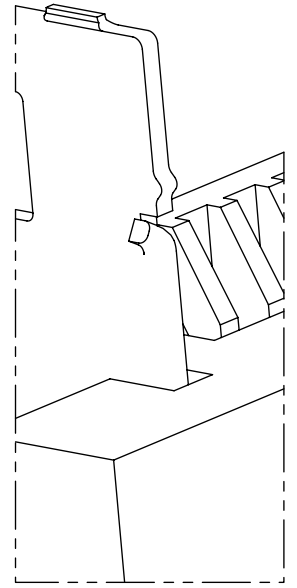
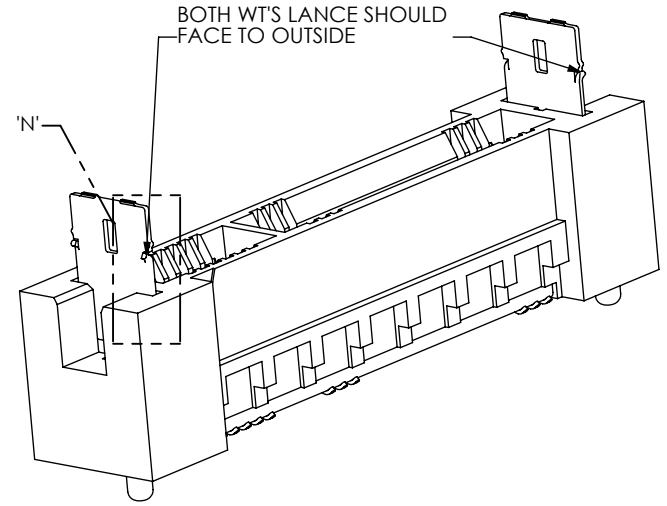
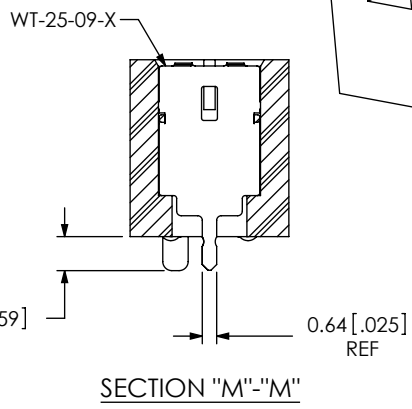


FIG 9  
\*\*-L2: ECDP LATCHING OPTION  
HSEC8-125-01-XX-DV-A-L2 SHOWN  
(AVAILABLE IN 9, 13, 25, & 49 POS ONLY)  
(NOT AVAILABLE FOR -GR TYPE USE)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 4)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
(\*\* = AVAILABLE ONLY WITH -01 CARD THICKNESS)



SCALE 12 : 1

| TABLE 8         |                 |                 |
|-----------------|-----------------|-----------------|
| No OF POSITIONS | "AA"            | "AB"            |
| -09             | 2.400 [0.0945]  | 4.500 [0.1772]  |
| -13             | 4.000 [0.1575]  | 6.100 [0.2402]  |
| -25             | 4.000 [0.1575]  | 6.100 [0.2402]  |
| -49             | 20.800 [0.8189] | 22.900 [0.9016] |

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

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



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Электрон  
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**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
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