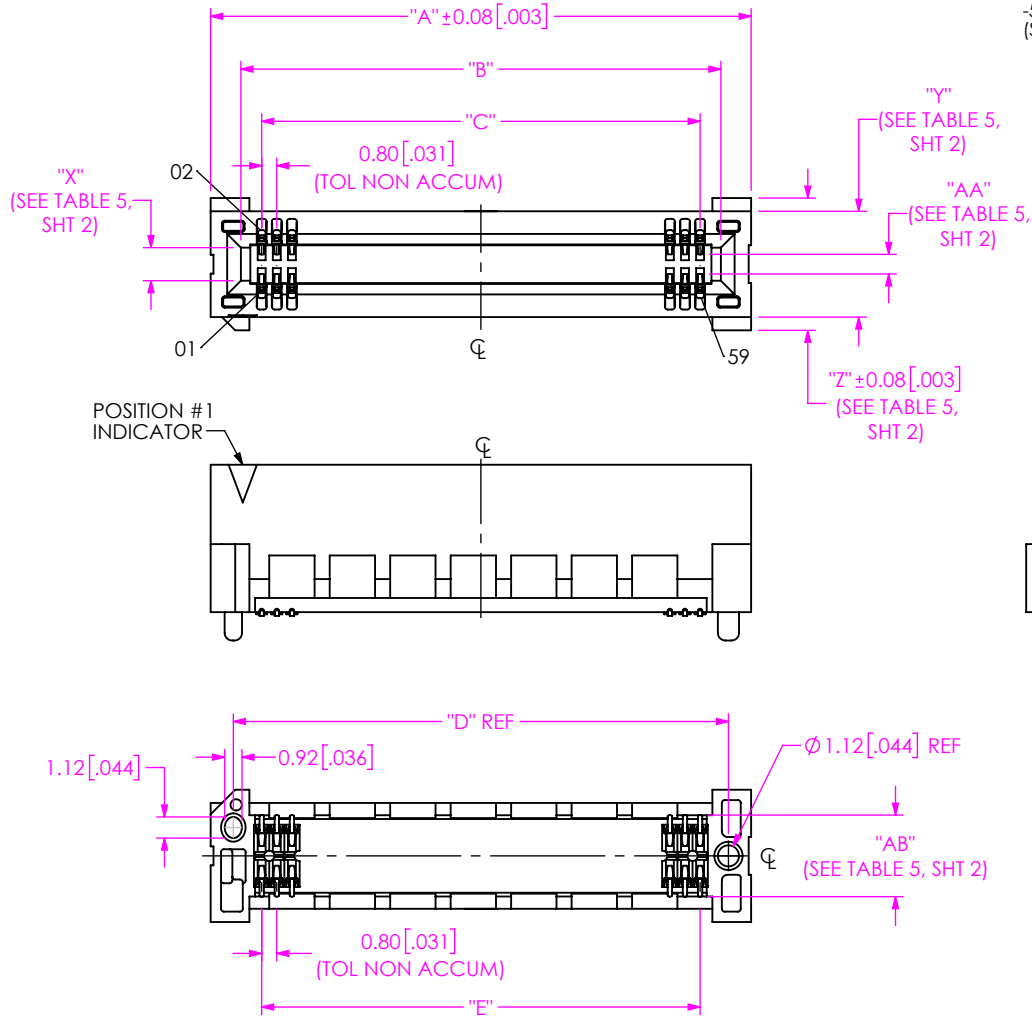


**DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]  
ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN**



**FIG 1**  
FOR POSITIONS -10, -20 & -30  
HTEC8-130-01-X-DV-A SHOWN  
(SOME FEATURES NOT SHOWN FOR CLARITY)

**HTEC8-1XXX-XX-X-DV-XX-X-XX**

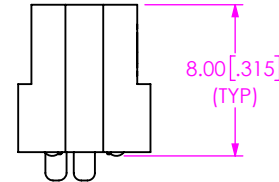
**No OF POSITIONS (PER ROW)**  
-10, -20, -30 (SEE FIG 1)  
\*\*-09, \*\*-13, -25, \*\*-37, -40, \*\*-49,  
-50, -60, -70, -80, \*\*-90, -100  
(SEE FIG 2, SHT 2)

**CARD THICKNESS**  
(SEE TABLE 5, SHT 2)  
-01: 1.57 mm CARD  
\*\*\*-03: 2.36 mm CARD

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

**ROW SPECIFICATION**  
-DV: DOUBLE VERTICAL

(\* = NOT TOOLED)  
(\*\* = ONLY AVAILABLE WITH -BL OPTION,  
NOT RELEASED WITHOUT -BL OPTION)  
(\*\*\* = NOT RELEASED)



**PACKAGING**  
BLANK: TRAY (SEE NOTES 2 & 7)  
-TR: TAPE & REEL (SEE NOTES 7 & 9)  
(-09 THRU -70 POS ONLY)  
-FR: FULL REEL QTY TAPE & REEL  
(SEE NOTES 7 & 9)  
(-09 THRU -70 POS ONLY)

**PICK & PLACE OPTION**  
-K: POLYAMIDE FILM  
(SEE FIG 3, SHT 2)

**OPTIONS**  
BLANK: NO ALIGNMENT PIN  
(USE HTEC8-XXX-01-DV, ONLY  
AVAILABLE FOR -01 CARD THICKNESS)  
-A: ALIGNMENT PIN  
(USE HTEC8-XXX-XX-DV-A)  
-WT: WELD TAB (SEE FIG 4, SHT 3)  
(-A OPTION ONLY)  
-BL: BOARD LOCK (SEE FIG 5, SHT 4)  
(-A OPTION ONLY)

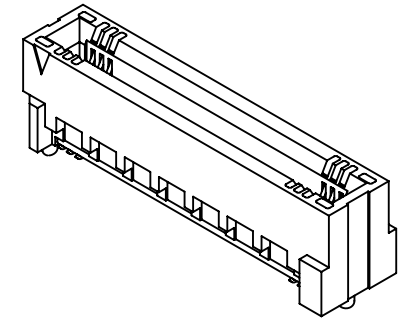


TABLE 1	
No OF POS	COPLANARITY
-09 THRU -60	0.102 [.004]
-70 THRU -100	0.127 [.005]

TABLE 2					
No OF POSITIONS	"A"	"B"	"C"	"D"	"E"
-10	12.60 [.496]	9.40 [.370]	7.20 [.283]	10.20 [.402]	7.20 [.283]
-20	20.60 [.811]	17.40 [.685]	15.20 [.598]	18.20 [.717]	15.20 [.598]
-30	28.60 [1.126]	25.400 [1.000]	23.200 [.913]	26.20 [1.031]	23.20 [.913]

**NOTES:**

1. MINIMUM PUSHOUT FORCE FOR SIGNALS AND SHIELD: 2.22N [.5 LB].
2. TRAYS ARE STANDARD PACKAGING.
3. NOTE DELETED.
4. K-DOT PROVIDED AS STANDARD.
5. MATING EDGE CARD THICKNESS TOLERANCE TO BE ± 0.157 [.0062] (PAD TO PAD) OF NOMINAL.
6. MATING CARD MUST HAVE LEAD-IN. SEE SAMTEC FOOTPRINT FOR SPECIFICATIONS.
7. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
8. NOTE DELETED.
9. ATTACH LABEL -4X2 TO EACH REEL.

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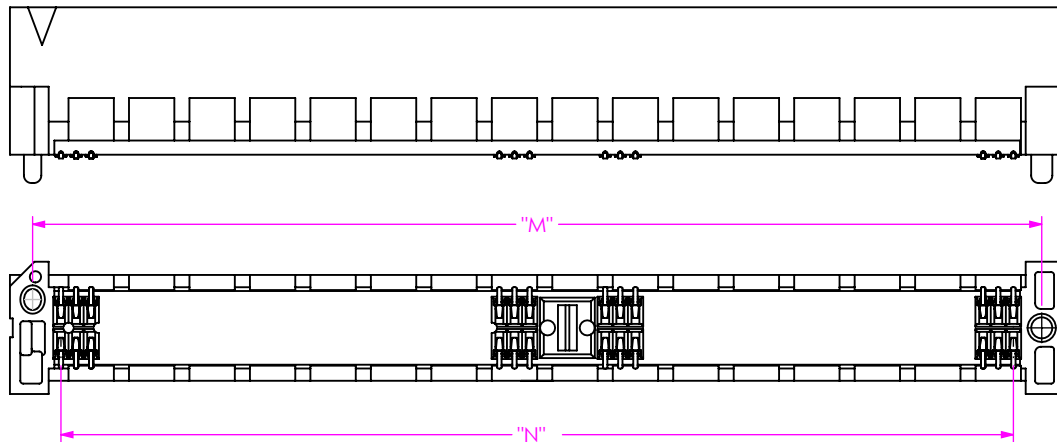
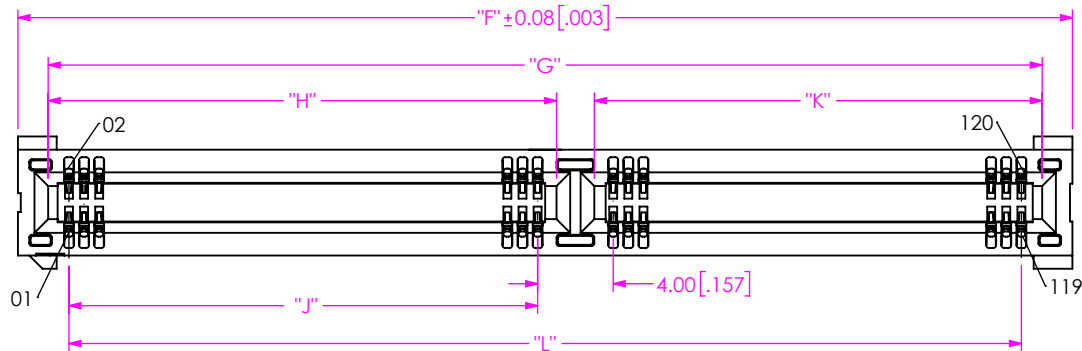
DO NOT SCALE DRAWING  
SHEET SCALE: 2.5:1  
MATERIAL:  
INSULATOR: LCP  
COLOR: -01 CARD THICKNESS BLACK,  
-03 CARD THICKNESS NATURAL  
CONTACT: COPPER ALLOY

**samtec**

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.  
**HTEC8-1XXX-XX-X-DV-XX-X-XX**

BY: JERRY SU 08/11/2018 SHEET 1 OF 4

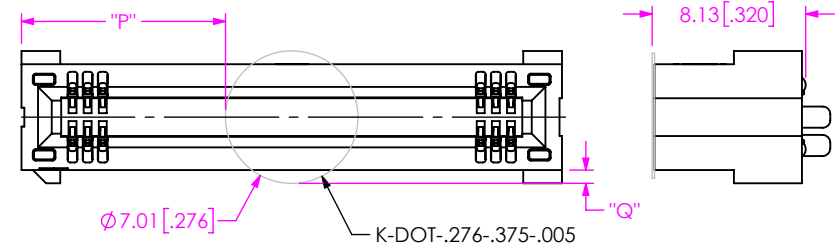


**FIG 2**  
FOR POSITIONS -09, -13, -25, -37,  
-40, -49, -50, -60, -70, -80, -90, -100  
HTEC8-160-01-X-DV-A SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(SOME FEATURES NOT SHOWN FOR CLARITY)

**TABLE 3**

No OF POSITIONS	"F"	"G"	"H"	"J"	"K"	"L"	"M"	"N"
-09	15.00 [ .591 ]	11.800 [ .4646 ]	4.500 [ .1772 ]	2.400 [ .094 ]	5.30 [ .209 ]	9.60 [ .378 ]	12.60 [ .496 ]	9.60 [ .378 ]
-13	18.20 [ .717 ]	15.000 [ .5906 ]	6.100 [ .2402 ]	4.000 [ .157 ]	6.90 [ .272 ]	12.80 [ .504 ]	15.80 [ .622 ]	12.80 [ .504 ]
-25	27.80 [ 1.094 ]	24.600 [ .9685 ]	6.100 [ .2402 ]	4.000 [ .157 ]	16.50 [ .650 ]	22.40 [ .882 ]	25.40 [ 1.000 ]	22.40 [ .882 ]
-37	37.40 [ 1.472 ]	34.200 [ 1.3465 ]	18.100 [ .7126 ]	16.000 [ .630 ]	14.10 [ .555 ]	32.00 [ 1.260 ]	35.00 [ 1.378 ]	32.00 [ 1.260 ]
-40	39.80 [ 1.567 ]	36.600 [ 1.4409 ]	18.900 [ .7441 ]	16.800 [ .661 ]	15.70 [ .618 ]	34.40 [ 1.354 ]	37.40 [ 1.472 ]	34.40 [ 1.354 ]
-49	47.00 [ 1.850 ]	43.800 [ 1.7244 ]	22.900 [ .9016 ]	20.800 [ .819 ]	18.90 [ .744 ]	41.60 [ 1.638 ]	44.60 [ 1.756 ]	41.60 [ 1.638 ]
-50	47.80 [ 1.882 ]	44.600 [ 1.7559 ]	22.900 [ .9016 ]	20.800 [ .819 ]	19.70 [ .776 ]	42.40 [ 1.669 ]	45.40 [ 1.787 ]	42.40 [ 1.669 ]
-60	55.80 [ 2.197 ]	52.600 [ 2.0709 ]	26.900 [ 1.0591 ]	24.800 [ .976 ]	23.70 [ .933 ]	50.40 [ 1.984 ]	53.40 [ 2.102 ]	50.40 [ 1.984 ]
-70	63.80 [ 2.512 ]	60.600 [ 2.3858 ]	26.900 [ 1.0591 ]	24.800 [ .976 ]	31.70 [ 1.248 ]	58.40 [ 2.299 ]	61.40 [ 2.417 ]	58.40 [ 2.299 ]
-80	71.80 [ 2.827 ]	68.600 [ 2.7008 ]	26.900 [ 1.0591 ]	24.800 [ .976 ]	39.70 [ 1.563 ]	66.40 [ 2.614 ]	69.40 [ 2.732 ]	66.40 [ 2.614 ]
-90	79.80 [ 3.142 ]	76.600 [ 3.0157 ]	26.900 [ 1.0591 ]	24.800 [ .976 ]	47.70 [ 1.878 ]	74.40 [ 2.929 ]	77.40 [ 3.047 ]	74.40 [ 2.929 ]
-100	87.80 [ 3.457 ]	84.600 [ 3.3307 ]	26.900 [ 1.0591 ]	24.800 [ .976 ]	55.70 [ 2.193 ]	82.40 [ 3.244 ]	85.40 [ 3.362 ]	82.40 [ 3.244 ]

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

**TABLE 4**

OPTION 2	No OF POS	"P"
NONE	-10 THRU -30	(( "A" - 7.01 [ .276 ] ) / 2)
	-09, -13, -25, -37, -40 THRU -100	(( "F" - 7.01 [ .276 ] ) / 2)
-WT	-10 THRU -30	(( "S" - 7.01 [ .276 ] ) / 2)
	-09, -13, -25, -37, -40 THRU -100	
-BL	-10 THRU -30	(( "U" - 7.01 [ .276 ] ) / 2)
	-09, -13, -25, -37, -40 THRU -100	

**TABLE 5**

CARD THICKNESS	"Q"	"X"	"Y"	"Z"	"AA"	"AB"
-01	0.71 [ .028 ]	1.75 [ .069 ]	5.60 [ .220 ]	7.00 [ .276 ]	1.04 [ .041 ]	4.32 [ .170 ]
-03	0.31 [ .012 ]	2.54 [ .100 ]	6.39 [ .252 ]	7.79 [ .307 ]	1.83 [ .072 ]	5.11 [ .201 ]

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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.

HTEC8-1XXX-XX-X-DV-XX-X-XX

BY: JERRY SU 08/11/2018 SHEET 2 OF 4

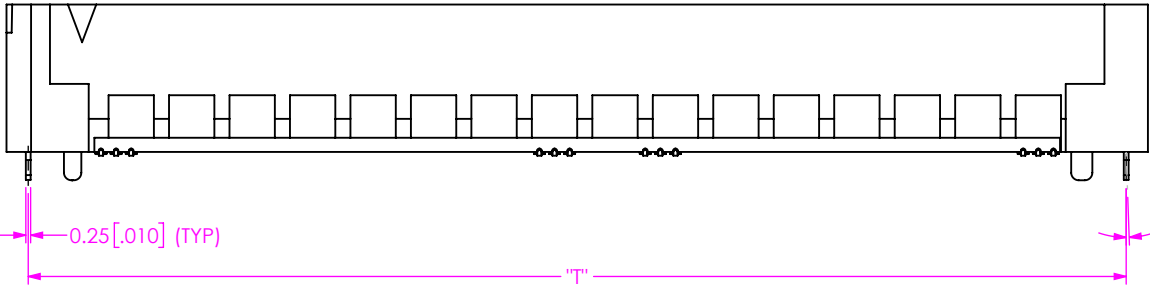
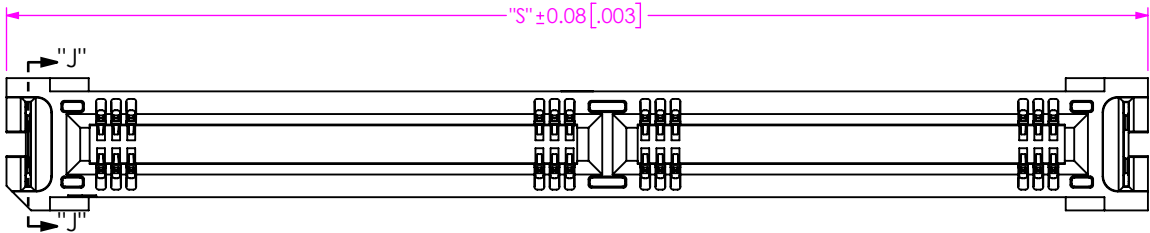
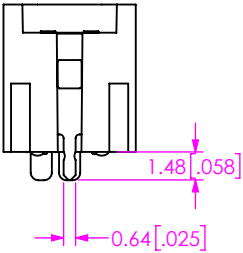


FIG 4  
-WT: WELD TAB OPTION  
HTEC8-160-01-X-DV-A-WT SHOWN  
AVAILABLE IN ALL POSITIONS  
(-A OPTION REQUIRED)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)  
(SOME FEATURES NOT SHOWN FOR CLARITY)

TABLE 6		
No OF POS	"S"	"T"
-09	19.60 [.772]	17.30 [.681]
-10	17.20 [.677]	14.90 [.587]
-13	22.80 [.898]	20.50 [.807]
-20	25.20 [.992]	22.90 [.902]
-25	32.40 [1.276]	30.10 [1.185]
-30	33.20 [1.307]	30.90 [1.217]
-37	42.00 [1.654]	39.70 [1.563]
-40	44.40 [1.748]	42.10 [1.657]
-49	51.60 [2.031]	49.30 [1.941]
-50	52.40 [2.063]	50.10 [1.972]
-60	60.40 [2.378]	58.10 [2.287]
-70	68.40 [2.693]	66.10 [2.602]
-80	76.40 [3.008]	74.10 [2.917]
-90	84.40 [3.323]	82.10 [3.232]
-100	92.40 [3.638]	90.10 [3.547]



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<p>DO NOT SCALE DRAWING</p> <p>SHEET SCALE: 2.5:1</p>	<p>DESCRIPTION: 0.8mm HIGH SPEED EDGE CARD ASSEMBLY</p> <p>DWG. NO. HTEC8-1XXX-XX-X-DV-XX-X-XX</p> <p>BY: JERRY SU 08/11/2018 SHEET 3 OF 4</p>

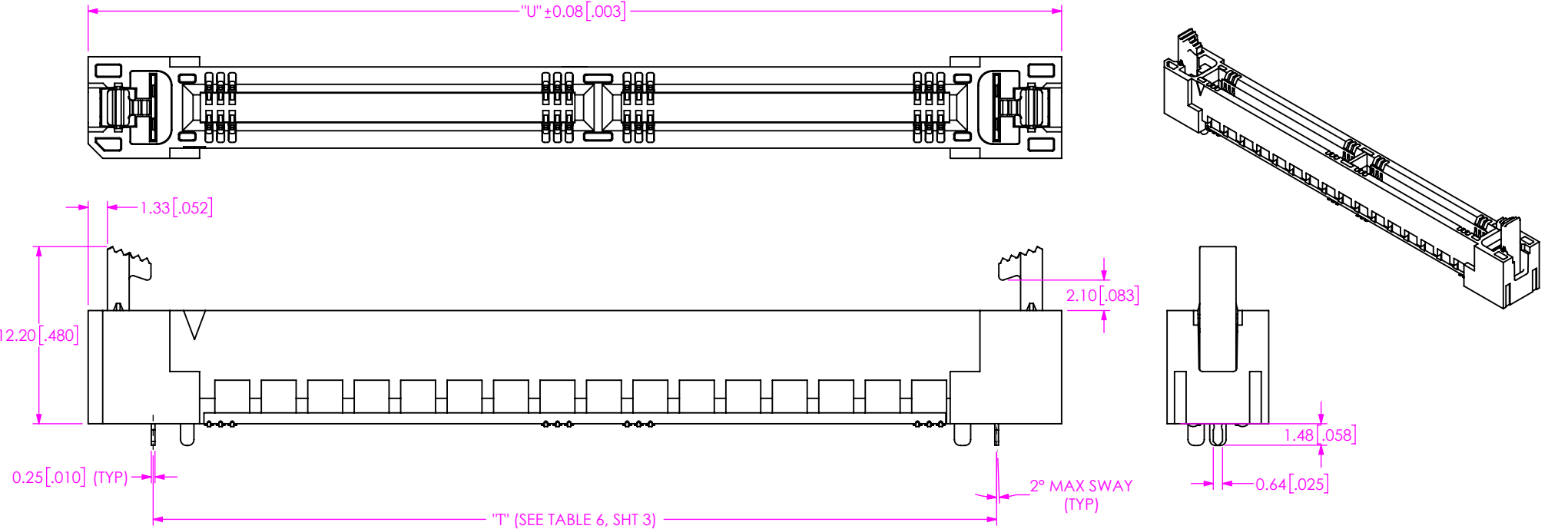


FIG 5  
-BL: BOARD LOCK OPTION  
HTEC8-160-01-X-DV-A-BL SHOWN  
(FOR -09, -13, -25, -37, -40, -49, -50, -60, -70, -80, -90 & -100 POSITIONS  
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)  
(FOR -10, -20 & -30 POSITIONS DIFFERENT AS SHOWN,  
OTHERWISE SAME AS FIG 1)  
(SOME FEATURES NOT SHOWN FOR CLARITY)  
(AVAILABLE IN ALL POSITIONS)

TABLE 7		
No OF POS	"U"	
-09	26.25	[1.033]
-10	23.85	[.939]
-13	29.45	[1.159]
-20	31.85	[1.254]
-25	39.05	[1.537]
-30	39.85	[1.569]
-37	48.65	[1.915]
-40	51.05	[2.010]
-49	58.25	[2.293]
-50	59.05	[2.325]
-60	67.05	[2.640]
-70	75.05	[2.955]
-80	83.05	[3.270]
-90	91.05	[3.585]
-100	99.05	[3.900]

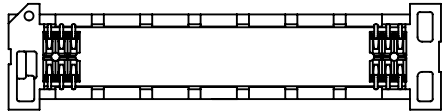
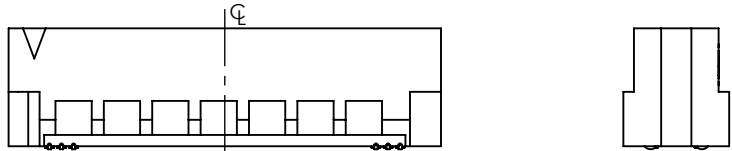


FIG 6  
HTEC8-130-01-X-DV SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(SOME FEATURES NOT SHOWN FOR CLARITY)

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DWG. NO.  
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BY: JERRY SU 08/11/2018 SHEET 4 OF 4