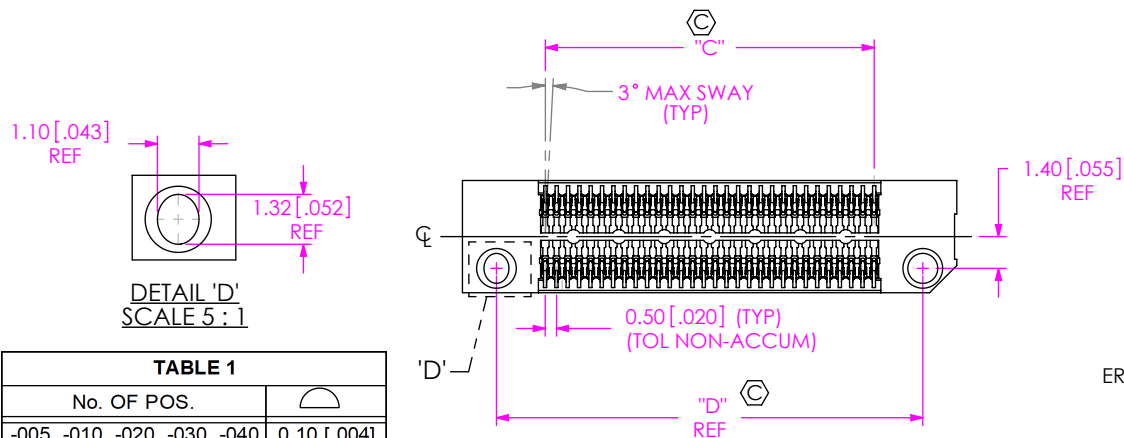
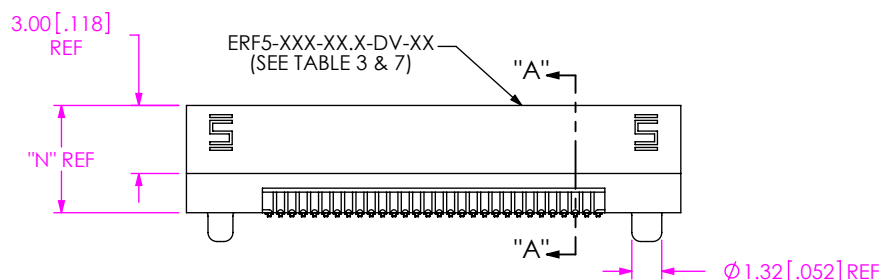
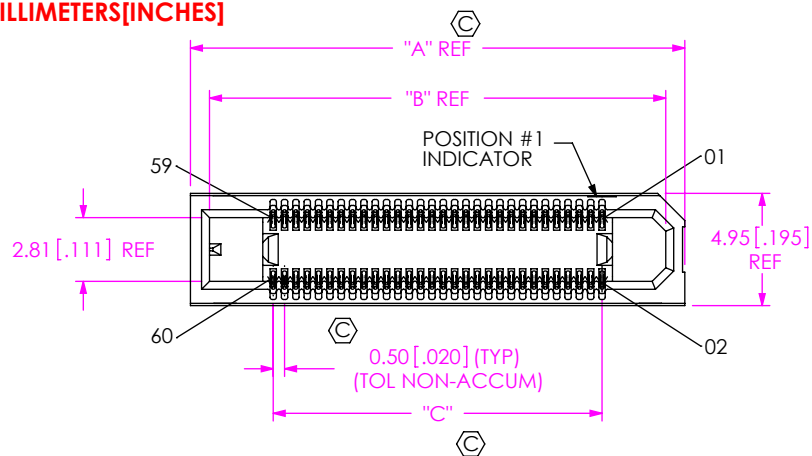


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THIS PRINT

| TABLE 1                      |             |
|------------------------------|-------------|
| No. OF POS.                  |             |
| -005, -010, -020, -030, -040 | 0.10 [.004] |
| -050, -060, -070, -075       | 0.13 [.005] |

## NOTES:

- ⊕ REPRESENTS A CRITICAL DIMENSION.
- MAXIMUM BURR ALLOWANCE: 0.038 [.0015]
- MINIMUM CONTACT PUSHOUT FORCE: 1.6 N [.4 LB];  
MINIMUM WELD TAB PUSHOUT FORCE: 4.45 N [1 LB];  
MINIMUM LATCH PUSHOUT FORCE: 2.25 N [.51 LB].
- ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
- ATTACH LABEL TO EACH REEL.

## ERF5-XXX-XX.X-X-DV-XX-X-XR

No OF POSITIONS  
(PER ROW)

-005, -010, -020,  
-030, -040, -050,  
-060, -070, -075

## LEAD STYLE

-05.0 = 5MM  
-07.0 = 7MM

## PLATING SPECIFICATION

-L: 10μ" SELECTIVE GOLD IN  
CONTACT AREA, MATTE TIN TAIL  
-S: 30μ" SELECTIVE GOLD IN  
CONTACT AREA, MATTE TIN TAIL

## ROW SPECIFICATION

-DV: DOUBLE VERTICAL

## TAPE &amp; REEL (SEE NOTES 4 &amp; 5)

-TR: TAPE & REEL  
-FR: FULL REEL QTY TAPE & REEL

## PICK &amp; PLACE OPTION

-K: POLYIMIDE FILM

## OPTION

-FL: FRICTION LOCK (OPTION  
INCLUDES A WELD TAB  
(ONLY AVAILABLE UP TO 30 POSITIONS)  
(FOR MATING WITH ERM5...DV...-FL)  
-WT: WELD TAB  
-L: LATCH (NOT AVAILABLE WITH  
-FL OR -WT OPTIONS)  
(ONLY AVAILABLE WITH  
-020, -030, & -040 POSITIONS  
AND -05.0 LEAD STYLE)

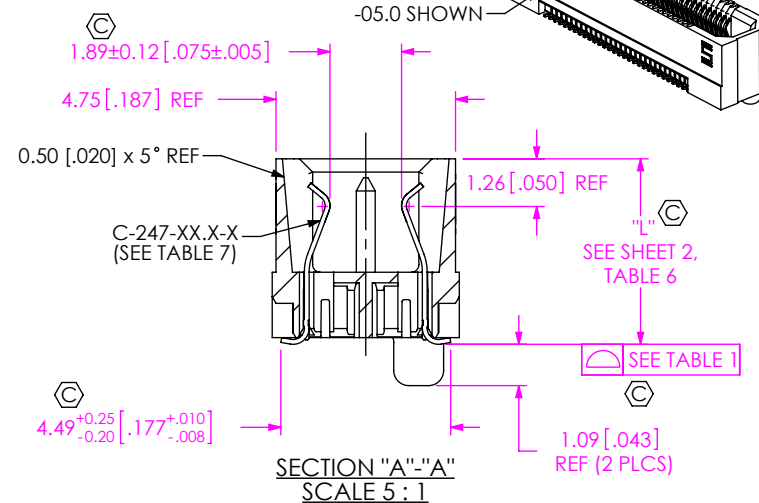


FIG 1  
ERF5-030-05.0-X-DV-XX-XR SHOWN

TABLE 2 (REF)

## STACK HEIGHT

| ERF5<br>LEAD<br>STYLE | ERM5 LEAD STYLE |        |        |
|-----------------------|-----------------|--------|--------|
|                       | -02.0           | -04.0  | -05.0  |
| -05.0                 | 7.0MM           | 9.0MM  | 10.0MM |
| -07.0                 | 9.0MM           | 11.0MM | 12.0MM |

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UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN  
MILLIMETERS [INCHES].  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [.01]  
X.XX: ±0.13 [.005]  
X.XXX: ±0.050 [.0020]

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MATERIAL: DO NOT SCALE DRAWING  
INSULATOR: LCP, COLOR: BLACK  
CONTACT: BeCu

SHEET SCALE: 2:1

DESCRIPTION:

0.5MM EDGE RATE SOCKET ASSEMBLY

DWG. NO.

ERF5-XXX-XX.X-X-DV-XX-X-XR

BY: CLAY W 09-23-2010 SHEET 1 OF 4

**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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e-Mail: info@SAMTEC.com code 55322

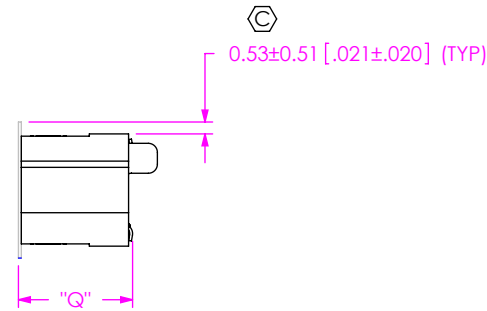
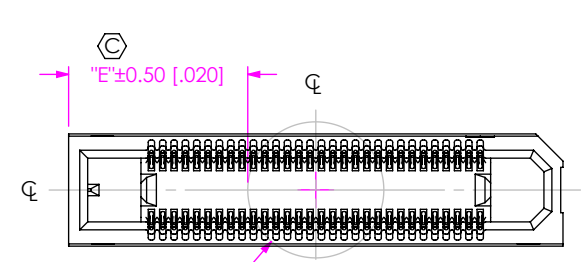


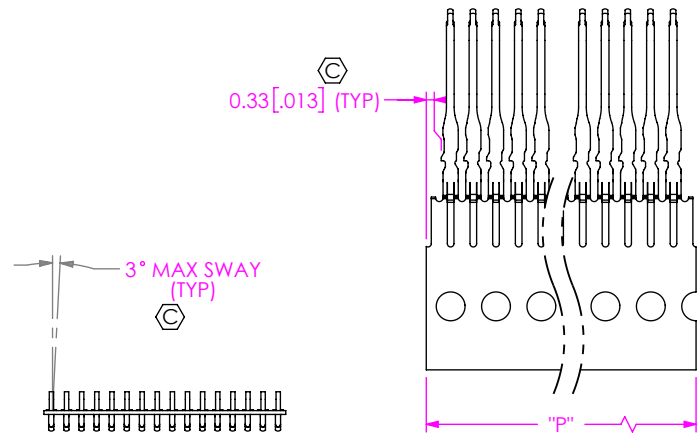
FIG 2  
-K OPTION  
(USE K-DOT-.236-.343-.005)  
ERF5-030-05.0-X-DV-K-XR SHOWN

| TABLE 6    |              |              |              |
|------------|--------------|--------------|--------------|
| LEAD STYLE | "Q"          | "L"          | "N"          |
| -05.0      | 5.03 [0.198] | 4.91 [0.193] | 4.73 [0.186] |
| -07.0      | 7.03 [0.277] | 6.91 [0.272] | 6.73 [0.265] |

| TABLE 3  |               |               |               |               |
|----------|---------------|---------------|---------------|---------------|
| POSITION | "A"           | "B"           | "C"           | "D"           |
| -005     | 9.30 [0.366]  | 7.62 [0.300]  | 2.00 [0.079]  | 6.30 [0.248]  |
| -010     | 11.80 [0.465] | 10.12 [0.398] | 4.50 [0.177]  | 8.80 [0.346]  |
| -020     | 16.80 [0.661] | 15.12 [0.595] | 9.50 [0.374]  | 13.80 [0.543] |
| -030     | 21.80 [0.858] | 20.12 [0.792] | 14.50 [0.571] | 18.80 [0.740] |
| -040     | 26.80 [1.055] | 25.12 [0.989] | 19.50 [0.768] | 23.80 [0.937] |
| -050     | 31.80 [1.252] | 30.12 [1.186] | 24.50 [0.965] | 28.80 [1.134] |
| -060     | 36.80 [1.449] | 35.12 [1.383] | 29.50 [1.161] | 33.80 [1.331] |
| -070     | 41.80 [1.646] | 40.12 [1.580] | 34.50 [1.358] | 38.80 [1.528] |
| -075     | 44.30 [1.744] | 42.62 [1.678] | 37.00 [1.457] | 41.30 [1.626] |

| TABLE 9  |       |         |       |         |       |         |
|----------|-------|---------|-------|---------|-------|---------|
| POSITION | "E"   |         |       |         |       |         |
|          | -K    |         | -K-WT |         | -K-FL |         |
| -005     | 1.65  | [0.065] | 3.15  | [0.124] | 3.15  | [0.124] |
| -010     | 2.90  | [0.114] | 4.40  | [0.173] | 4.40  | [0.173] |
| -020     | 5.40  | [0.213] | 6.90  | [0.271] | 6.90  | [0.271] |
| -030     | 7.90  | [0.311] | 9.40  | [0.370] | 9.40  | [0.370] |
| -040     | 10.40 | [0.409] | 11.90 | [0.469] |       |         |
| -050     | 12.90 | [0.508] | 14.40 | [0.567] |       |         |
| -060     | 15.40 | [0.606] | 16.90 | [0.665] |       |         |
| -070     | 17.90 | [0.705] | 19.40 | [0.764] |       |         |
| -075     | 19.15 | [0.754] | 20.65 | [0.813] |       |         |

IN PROCESS 1  
CUT C-247-XX.X-X CONTACT COMBS  
(ALL TAILS SAME DIRECTION)



| TABLE 8  |               |
|----------|---------------|
| POSITION | "P"           |
| -005     | 3.00 [0.118]  |
| -010     | 5.50 [0.216]  |
| -020     | 10.50 [0.413] |
| -030     | 15.50 [0.610] |
| -040     | 20.50 [0.807] |
| -050     | 25.50 [1.004] |
| -060     | 30.50 [1.201] |
| -070     | 35.50 [1.398] |
| -075     | 38.00 [1.496] |

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
0.5MM EDGE RATE SOCKET ASSEMBLY

DWG. NO.  
ERF5-XXX-XX.X-X-DV-XX-XR

BY:CLAY W 09-23-2010 SHEET 2 OF 4

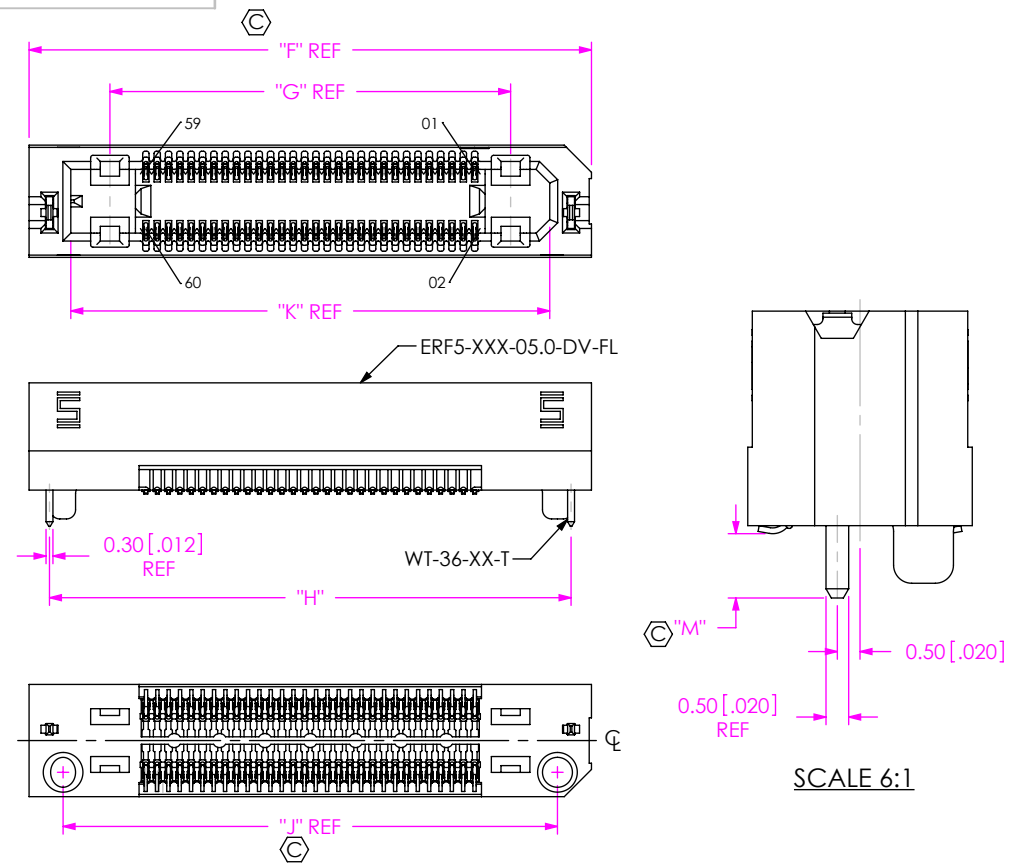


FIG 3  
ERF5-030-05.0-X-DV-FL-XR SHOWN  
(SAME AS FIG 1 EXCEPT AS SHOWN)  
(OPTION INCLUDES A WELD TAB, ONLY AVAILABLE UP TO 30 POSITIONS)

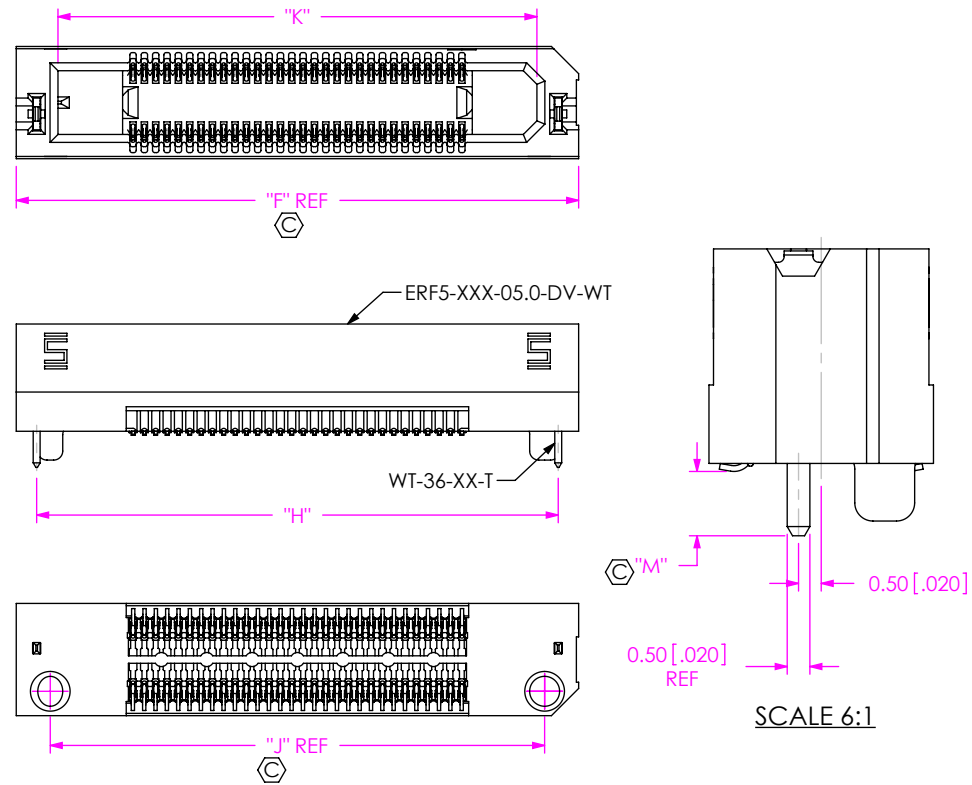


FIG 4  
ERF5-030-05.0-X-DV-WT-XR SHOWN  
(SAME AS FIG 3 EXCEPT AS SHOWN)

| TABLE 7    |                     |              |            |              |
|------------|---------------------|--------------|------------|--------------|
| LEAD STYLE | ERF5-XXX-XX.X-DV-XX | C-247-XX.X-X | WT-36-XX-T | "M"          |
| -05.0      | ERF5-XXX-05.0-DV-XX | C-247-05.0-X | WT-36-01-T | 1.42 [0.056] |
| -07.0      | ERF5-XXX-07.0-DV-XX | C-247-07.0-X | WT-36-03-T | 1.27 [0.050] |

| TABLE 4  |               |               |               |               |              |
|----------|---------------|---------------|---------------|---------------|--------------|
| POSITION | "F"           | "G"           | "H"           | "J"           | "K"          |
| -005     | 12.30 [0.484] | 5.17 [0.204]  | 10.50 [0.413] | 9.30 [0.366]  | 8.62[0.340]  |
| -010     | 14.80 [0.583] | 7.67 [0.302]  | 13.00 [0.512] | 11.80 [0.465] | 11.12[0.438] |
| -020     | 19.80 [0.780] | 12.67 [0.499] | 18.00 [0.709] | 16.80 [0.661] | 16.12[0.635] |
| -030     | 24.80 [0.976] | 17.67 [0.696] | 23.00 [0.906] | 21.80 [0.858] | 21.12[0.831] |
| -040     | 29.80 [1.173] | 22.67 [0.893] | 28.00 [1.102] | 26.80 [1.055] | 26.12[1.028] |
| -050     | 34.80 [1.370] | 27.67 [1.089] | 33.00 [1.299] | 31.80 [1.252] | 31.12[1.225] |
| -060     | 39.80 [1.567] | 32.67 [1.286] | 38.00 [1.496] | 36.80 [1.449] | 36.12[1.422] |
| -070     | 44.80 [1.764] | 37.67 [1.483] | 43.00 [1.693] | 41.80 [1.646] | 41.12[1.619] |
| -075     | 47.30 [1.862] | 40.17 [1.581] | 45.50 [1.791] | 44.30 [1.744] | 43.62[1.717] |

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0.5MM EDGE RATE SOCKET ASSEMBLY

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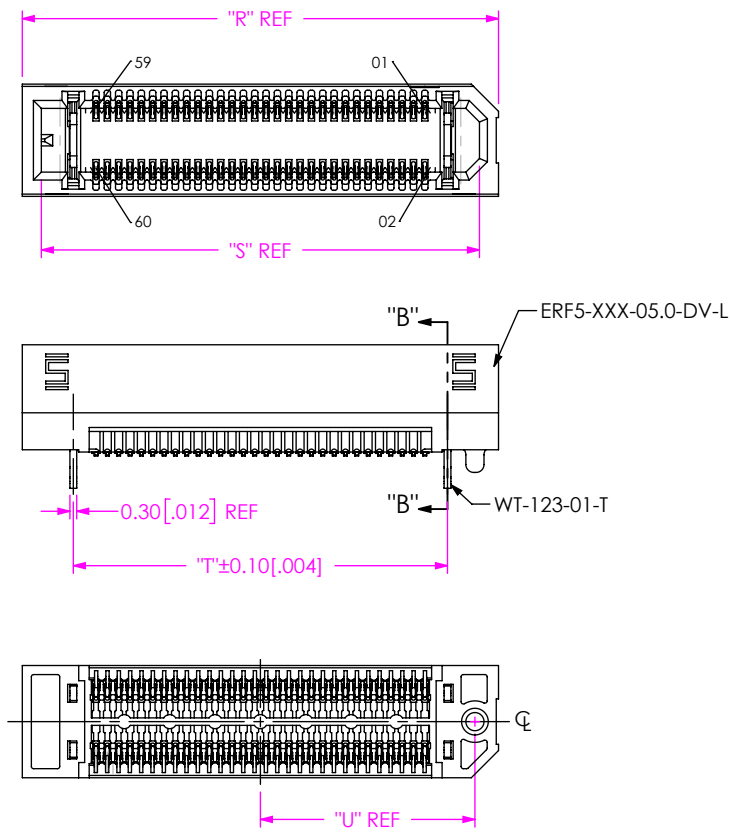
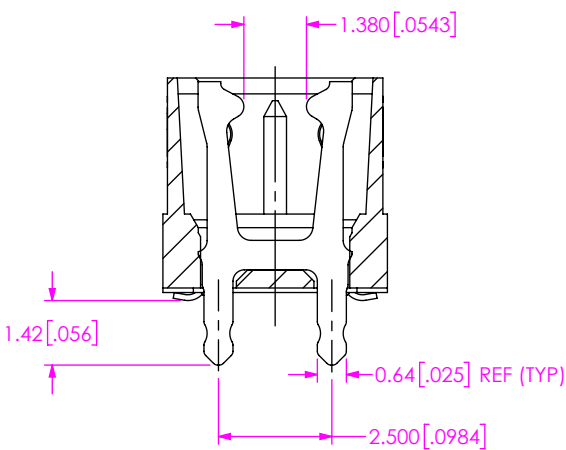


FIG 5  
ERF5-030-05.0-X-DV-L-XR SHOWN  
(SAME AS FIG 1 EXCEPT AS SHOWN)



SECTION "B"-"B"  
SCALE 6 : 1

| TABLE 5  |               |               |                 |               |
|----------|---------------|---------------|-----------------|---------------|
| POSITION | "R"           | "S"           | "T"             | "U"           |
| -020     | 16.00 [0.630] | 14.32 [0.564] | 11.500 [0.4528] | 6.96 [0.274]  |
| -030     | 21.00 [0.827] | 19.32 [0.761] | 16.500 [0.6496] | 9.46 [0.372]  |
| -040     | 26.00 [1.024] | 24.32 [0.957] | 21.500 [0.8465] | 11.96 [0.471] |

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DESCRIPTION:  
0.5MM EDGE RATE SOCKET ASSEMBLY

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ERF5-XXX-XX.X-X-DV-XX-X-XR

BY: CLAY W 09-23-2010 SHEET 4 OF 4