

DO NOT  
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| TABLE 2            |                 |
|--------------------|-----------------|
| BODY SPECIFICATION |                 |
| ROW/OPTION         | USE BODY        |
| -S, -S-NA/-NE      | HTSW-50-S-LCP   |
| -S-RA/-S-RE        | HTSW-50-SRA-LCP |
| -D, -D-NA/-NE      | HTSW-50-D-LCP   |
| -D-RA              | HTSW-50-DRA-LCP |
| -T, -T-NA/-NE      | HTSW-50-T-LCP   |
| -T-RA, -Q-RA       | HTSW-50-TRA-LCP |
| -Q                 | HTSW-50-T-LCP   |

TERMINAL SPACE SPEC  
-1= .100 [2.54] (FILL EVERY POSITION)  
-2= .200 [5.08] (FILL EVERY OTHER  
POSITION STARTING WITH THE 1st  
AND ENDING WITH THE LAST  
POSITION IN BODY)

NUMBER OF POSITIONS  
-1: -01 THRU -50  
"A"= NUMBER OF POS x .100[2.54]  
-2: -02 THRU -25  
"A"= (NUMBER OF POS x .200[5.08])-.100[2.54]

LEAD STYLE  
SEE TABLE T, SHT 6

PLATING SPECIFICATIONS  
-G: 10µ" GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
-T: MATTE TIN CONTACT AND TAIL  
-S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-H: 30µ" HEAVY GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
-L: 10µ" LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-F: 3µ" FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-E: 50µ" EXTRA HEAVY GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL  
(AVAILABLE ON LEAD STYLES -07, -08, -09 STRAIGHT AND -08-D-RA)  
-TL: TIN/LEAD (90/10 ±5%) CONTACT AND TAIL,  
(AVAILABLE ONLY ON LEAD STYLES -07, -08 & -09)  
-TM: MATTE TIN CONTACT AND TAIL  
-SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-LM: 10µ" LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-FM: 3µ" FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-STL: 30µ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10 ±5%) TAIL  
-LTL: 10µ" LIGHT SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10 +/-5%) TAIL,  
(AVAILABLE ONLY ON LEAD STYLE -15)  
-SS: 30µ" STRIPE SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL, (SEE NOTE 9)

HTSW-XXX-XX-XXX-X-XX-XX-XX

OPTION 3  
\*-MW: METAL WASHER  
(STRAIGHT TAIL OPTION ONLY)  
(AVAILABLE ON 05, 06, 07, 08, 16, 17, 18,  
22, 23, 24, 25, 41 & 42 LEAD STYLES ONLY)  
(N/A WITH -LC OPTION. 20 POS MIN, 30 POS MAX.  
SEE FIG 6, SHT 5)

OPTION 2  
-POLARIZING SPECIFICATION  
XXX INDICATES POS TO BE OMITTED

OPTION 1  
-BLANK: STRAIGHT (SEE FIG 1, SHT 2)  
-RA: RIGHT ANGLE (SEE TABLE 3 & 4, FIG 5, SHT 4)  
-RE: EXTENDED RIGHT ANGLE (SEE TABLE 3 & 4, FIG 5, SHT 4)  
(SINGLE ROW ONLY)  
-NA: RA OPTION WITH STRAIGHT OPTION BODY (SEE TABLE 3 & 4, FIG 5, SHT 4)  
-NE: RE OPTION WITH STRAIGHT OPTION BODY (SEE TABLE 3 & 4, FIG 5, SHT 4)  
-LC: LOCKING CLIP (4 POS MINIMUM; ONLY AVAILABLE ON:  
LEAD STYLES -08 THRU -13 & -22, WITH ROW OPTIONS -S & -D;  
N/A WITH -MW, -RA OR -RE OPTIONS; SEE FIG 2, SHT 2)  
-LA: RA OPTION WITH -LL OPTION (SEE SHT 3)  
-LL: LOCKING LEAD (SEE FIG 4, SHT 3)  
(N/A WITH -RE OR -NE OPTIONS)  
(N/A IN SINGLE ROW, 1 OR 2 POSITIONS)

ROW SPECIFICATION (SEE TABLE 2)  
-S: SINGLE  
-D: DOUBLE  
-T: TRIPLE  
-Q: TRIPLE ROW, FILL OUTER ROWS ONLY

**\* - MW OPTION, DO NOT DESIGN IN. SAMTEC WILL ONLY SUPPORT EXISTING BUSINESS 2/12/02.**

| CRITICAL DIMENSION INSPECTION INSTRUCTION TABLE |                       |
|-------------------------------------------------|-----------------------|
| ASSEMBLY OPERATION                              | IN-PROCESS INSPECTION |
|                                                 |                       |
| FILL                                            | C1                    |
| MULTI-CUT                                       | C2                    |
| RIGHT ANGLE                                     | C4                    |
| RIGHT ANGLE                                     | C5                    |
| RIGHT ANGLE                                     | C6                    |
| CRIMP                                           | C7                    |
| CPCs INTENTIONALLY DELETED:                     | C3                    |

- NOTES:
- 1. Ⓞ REPRESENTS CRITICAL DIMENSION FOR STATISTICAL PROCESS CONTROL.
  - 2. MINIMUM TERMINAL PUSHOUT FORCE: 3 LBS.
  - 3. MAXIMUM HEIGHT VARIATION: .005[.127] (N/A ON -RA TAIL).
  - 4. ASSEMBLE GOLD PLATE END AS SHOWN IN FIG 1.
  - 5. STYLE -26: ROUND END OF PIN TO APPEAR ON BOTTOM (SEE FIG 7, SHT 6).
  - 6. MINIMUM GOLD PLATED CONTACT AREA: .165[4.19] REF; PINS -18, -21 & -25: .050[1.27] REF.
  - 7. CRIMP TWO PINS CLOSEST TO CENTER OF THE PART IF THERE IS A POLARIZED POSITION IN THE MIDDLE/CENTER.
  - 8. MAXIMUM CUT FLASH: .010 [ .25].
  - 9. -SS PLATING OPTION ONLY AVAILABLE ON -07, -08, -09 STRAIGHT AND -08 -RA LEAD STYLES. MATES WITH SSQ, SSW, SSM, BCS, ESQ & ESW.
  - 10. MEASURE FROM THE BEND RADIUS OF THE TERMINALS.
  - 11. ORIENTATE PINS TO PREVENT BANDOLIER MARKS FROM SHOWING IN THE POST AREA. (SEE TABLE 6, SHT 7).

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

|                      |        |
|----------------------|--------|
| DECIMALS             | ANGLES |
| .XX: ±.01 [.25]      | 2°     |
| .XXX: ±.005 [.13]    |        |
| .XXXX: ±.0020 [.051] |        |

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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: 3.5:1

INSULATOR: LCP, UL-94-V-0

COLOR: NATURAL

DESCRIPTION:  
.025 SQ POST HI-TEMP TERMINAL STRIP ASSEMBLY

DWG. NO.  
HTSW-XXX-XX-XXX-X-XX-XX-XX

|            |          |              |
|------------|----------|--------------|
| BY: PURVIS | 02/17/87 | SHEET 1 OF 7 |
|------------|----------|--------------|

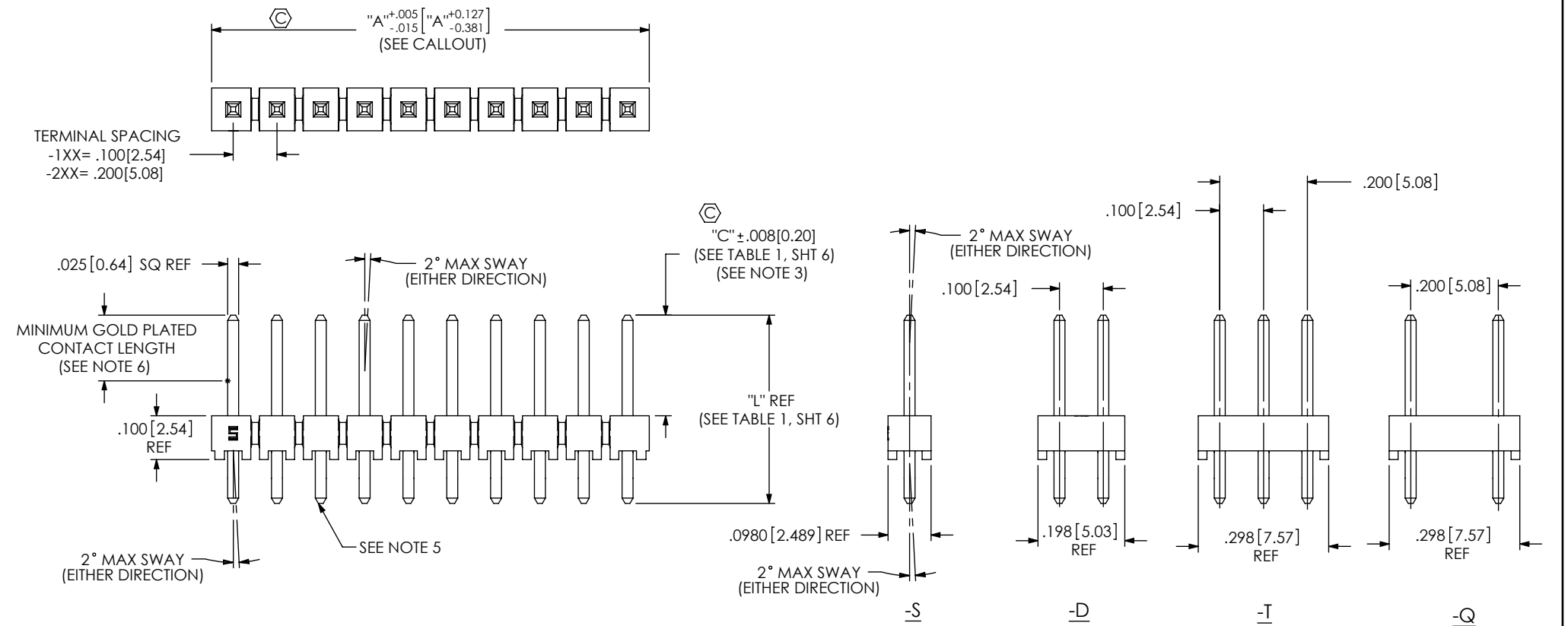


FIG 1  
HTSW-110-07-XXX-D SHOWN

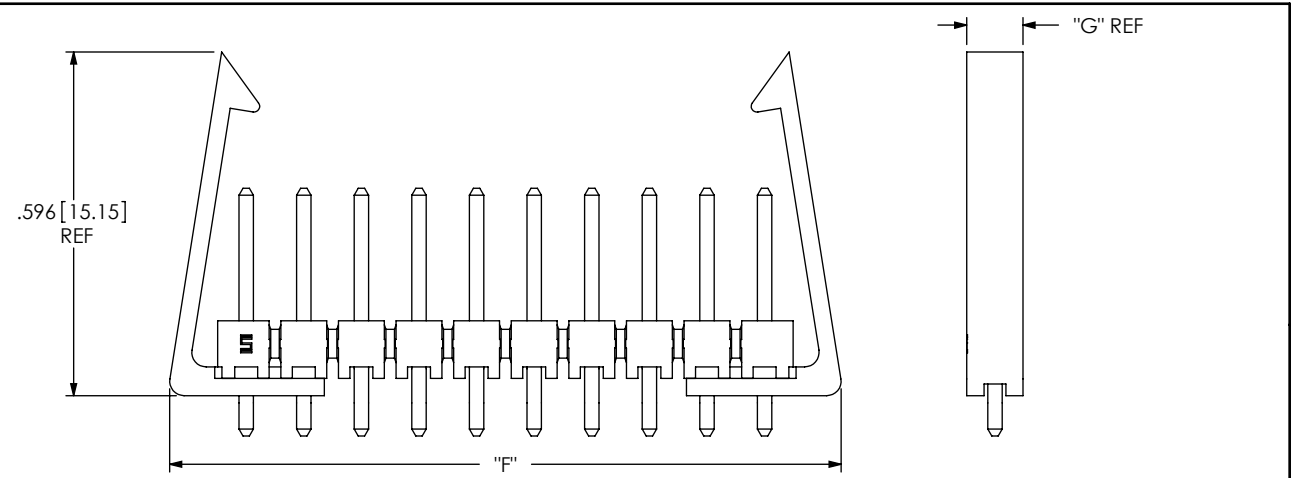


FIG 2: LOCKING CLIP  
HTSW-110-07-XXX-D-LC SHOWN  
(DIFFERENT AS SHOWN, OTHERWISE  
SAME AS FIG 1)

| TABLE 5: -LC OPTION |                   |            |        |
|---------------------|-------------------|------------|--------|
| ROW                 | "F" +/- .015[.38] | "G"        | LATCH  |
| -D                  | "A" + .210[2.67]  | .198[5.03] | LTC-02 |
| -S                  | "A" + .150[3.81]  | .098[2.49] | LTC-01 |

F:\DWG\MISC\MKTG\HTSW-XXX-XX-XXX-X-XX-XX-XX-MKT.SLDDRW

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DWG. NO.  
HTSW-XXX-XX-XXX-X-XX-XX-XX  
BY: PURVIS 02/17/87 SHEET 2 OF 7

FIG 3  
TERMINAL SPACING  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

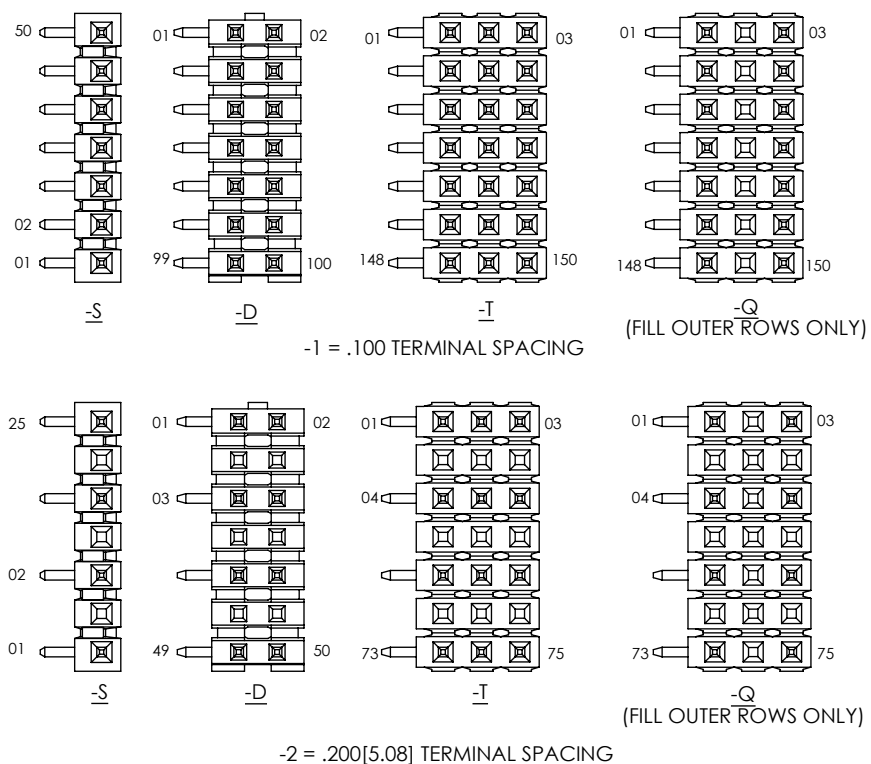
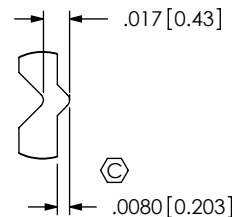
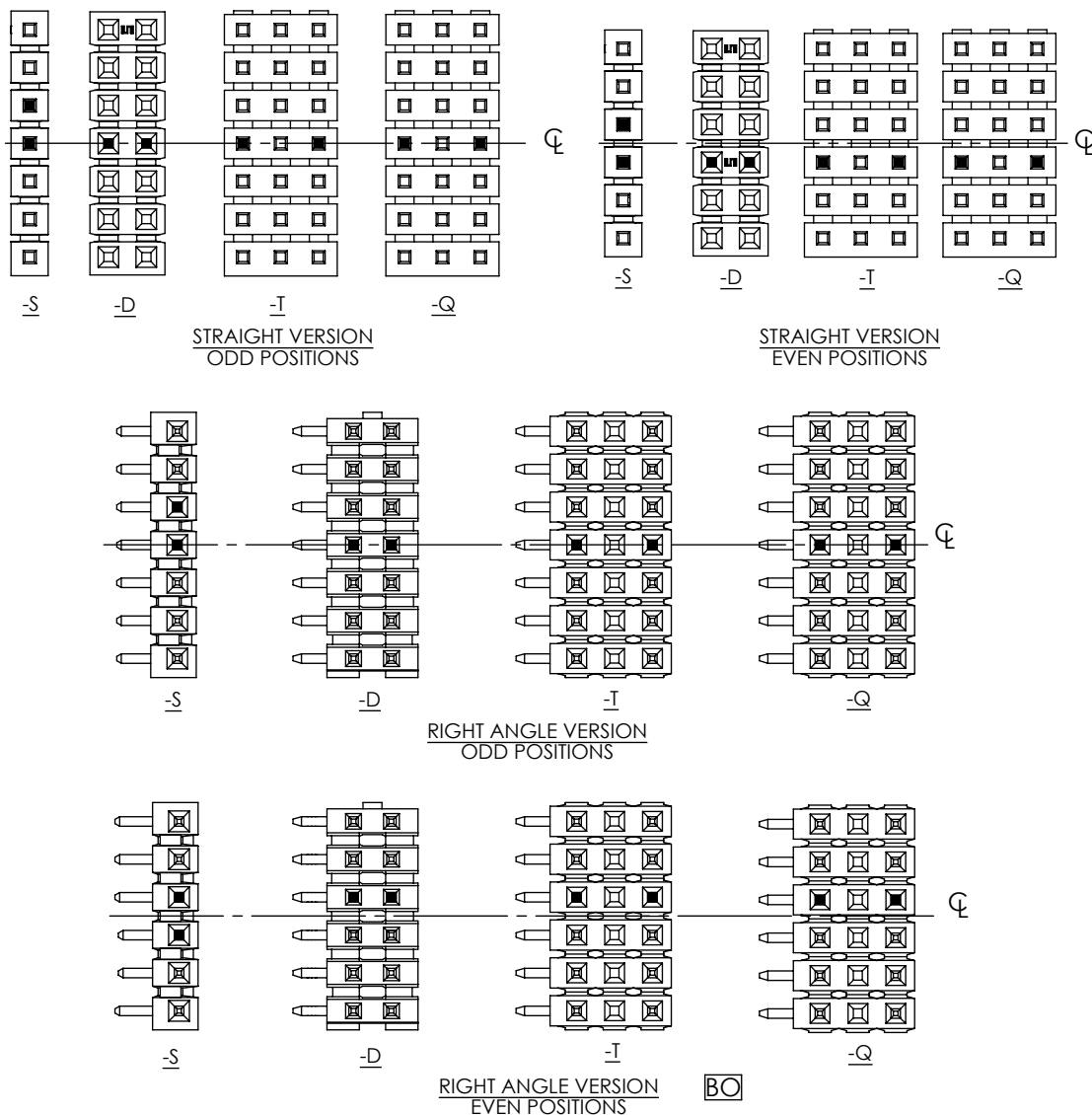
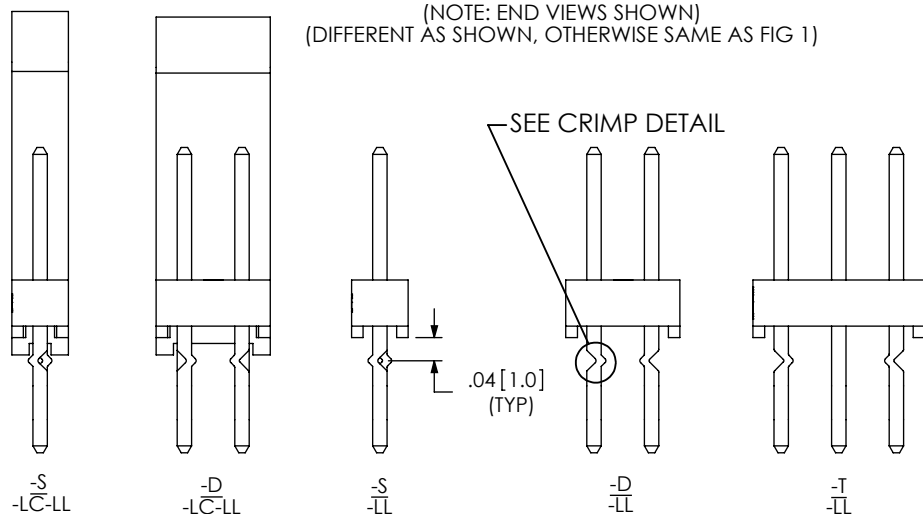


FIG 4  
-LL: LOCKING LEAD  
(NOTE: END VIEWS SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



CRIMP DETAIL  
SCALE: 2x  
[TYP- ALL CRIMPS]

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.025 SQ POST HI-TEMP TERMINAL STRIP ASSEMBLY

DWG. NO.

HTSW-XXX-XX-XXX-X-XX-XX-XX

BY: PURVIS 02/17/87

SHEET 3 OF 7

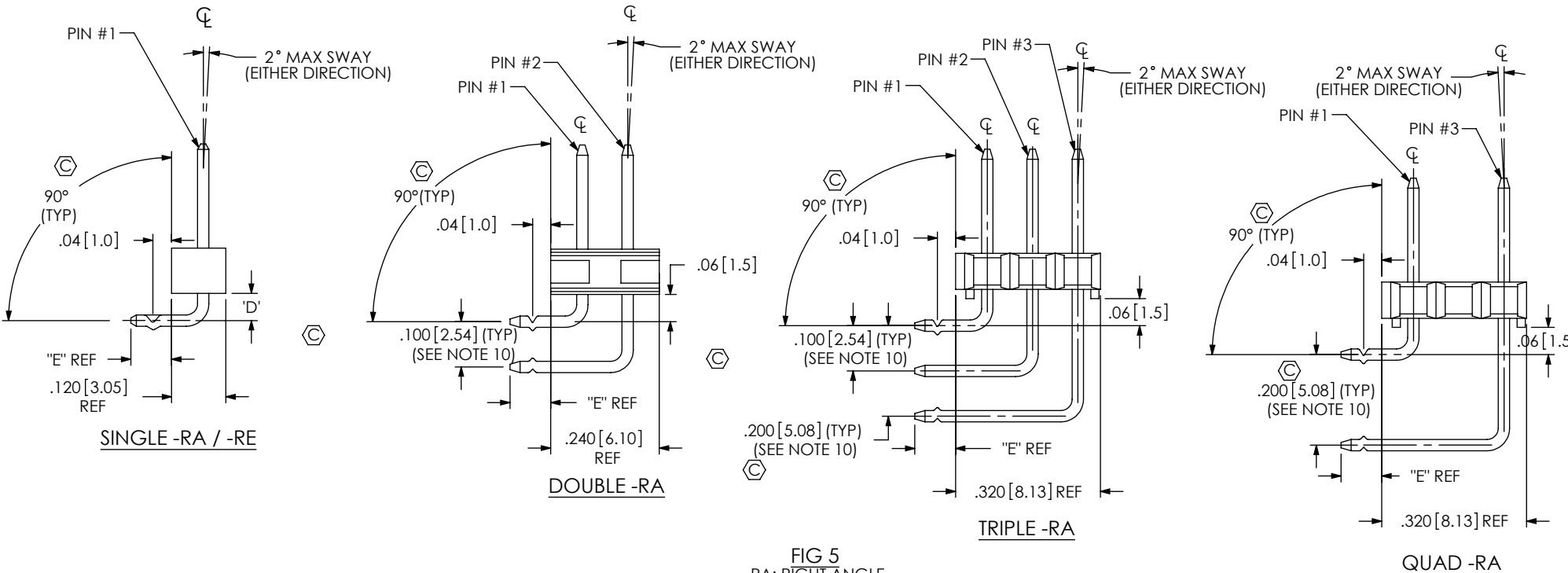


FIG 5  
-RA: RIGHT ANGLE  
(-LA OPTION IS SHOWN ON ALL -RA VIEWS  
FOR DIMENSIONAL PURPOSES)  
(SEE CRIMP DETAIL VIEW, SHT 3)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 4 - "E"

| LEAD STYLE | RA SINGLE    | RE SINGLE    | RA DOUBLE    | RA TRIPLE    | NA SINGLE     | NE SINGLE    | NA DOUBLE    | NA TRIPLE    |
|------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| 08         | .090 [2.29]  | N / A        | .090 [2.29]  | .090 [2.29]  | .109 [2.77]   | N / A        | .109 [2.77]  | .109 [2.77]  |
| 09         | .290 [7.37]  | .190 [4.83]  | .290 [7.37]  | .290 [7.37]  | .309 [7.85]   | .209 [5.31]  | .309 [7.85]  | .309 [7.85]  |
| 10         | .390 [9.91]  | .290 [7.37]  | .390 [9.91]  | .390 [9.91]  | .409 [10.39]  | .309 [7.85]  | .409 [10.39] | .409 [10.39] |
| 11         | .490 [12.45] | .390 [9.91]  | .490 [12.45] | .490 [12.45] | .509 [12.93]  | .409 [10.39] | .509 [12.93] | .509 [12.93] |
| 12         | .590 [14.99] | .490 [12.45] | .590 [14.99] | .590 [14.99] | .609 [15.47]  | .509 [12.93] | .609 [15.47] | .609 [15.47] |
| 13         | .790 [20.07] | .690 [17.53] | .790 [20.07] | N / A        | .809 [20.55]  | .709 [18.01] | .809 [20.55] | N / A        |
| 16         | .200 [5.08]  | .100 [2.54]  | .200 [5.08]  | .200 [5.08]  | .219 [5.56]   | .119 [3.02]  | .219 [5.56]  | .219 [5.56]  |
| 21         | .990 [25.15] | .890 [22.61] | N / A        | N / A        | 1.009 [25.63] | .909 [23.09] | N / A        | N / A        |
| 22         | .190 [4.83]  | .090 [2.29]  | .190 [4.83]  | .190 [4.83]  | .209 [5.31]   | .109 [2.77]  | .209 [5.31]  | .209 [5.31]  |
| 25         | .100 [2.54]  | N / A        | .100 [2.54]  | .100 [2.54]  | .119 [3.02]   | N / A        | .119 [3.02]  | .119 [3.02]  |
| 27         | .890 [22.61] | .790 [20.07] | N / A        | N / A        | .909 [23.09]  | .809 [20.55] | N / A        | N / A        |
| 28         | .690 [17.53] | .590 [14.99] | .690 [17.53] | N / A        | .709 [18.01]  | .609 [15.47] | .709 [18.01] | N / A        |
| 29         | .800 [20.32] | N / A        | N / A        | N / A        | .819 [20.80]  | N / A        | N / A        | N / A        |
| 30         | .600 [15.24] | N / A        | .600 [15.24] | N / A        | .619 [15.72]  | N / A        | .619 [15.72] | N / A        |

TABLE 3

| -XX       | "D"       |
|-----------|-----------|
| -RA / -NA | .06 [1.5] |
| -RE / -NE | .16 [4.1] |

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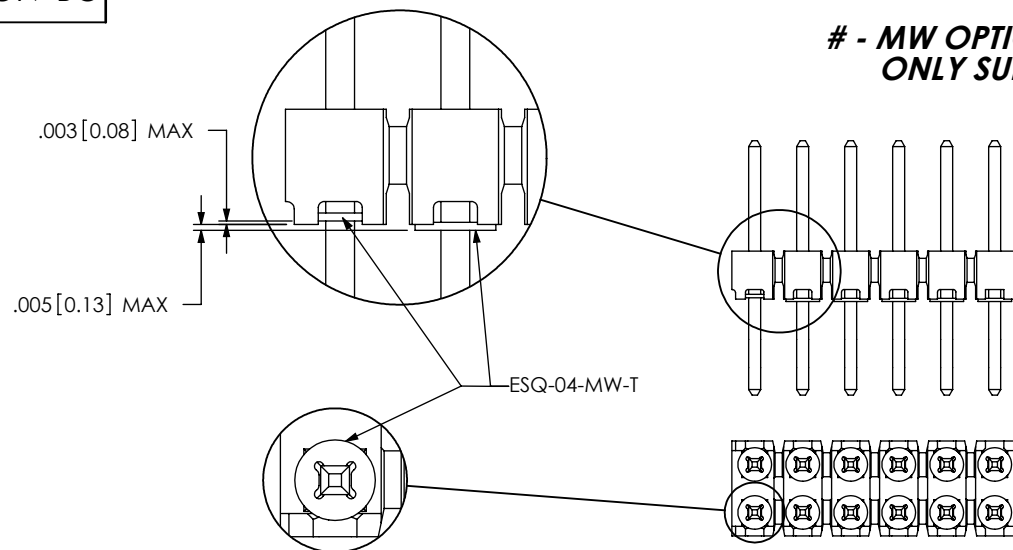
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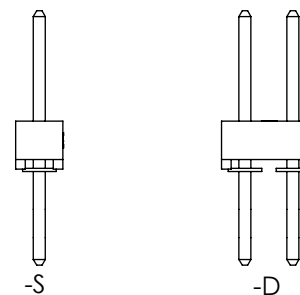
DWG. NO.  
**HTSW-XXX-XX-XXX-X-XX-XX-XX**

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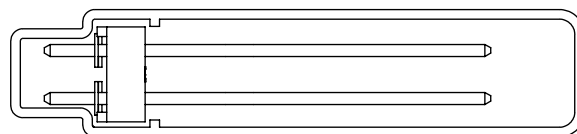
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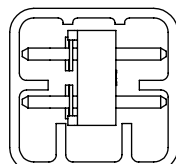
**FIG 6**  
\*-MW: METAL WASHER  
(ONE PER POSITION)



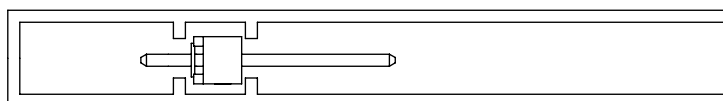
| -MW OPTION TUBE TABLE                         |       |               |          |
|-----------------------------------------------|-------|---------------|----------|
| STYLE                                         | ROW   | TUBE          | PLUG     |
| -XX                                           | -S    | PT-1-24-02-04 | TP-24    |
| -08<br>-16<br>-22<br>-25                      | -D    | PT-1-24-03-29 | TP-07    |
| -05<br>-17<br>-18<br>-23<br>-24<br>-41<br>-42 | -D    | PT-1-24-08-03 | TP-03    |
| -06                                           | -D    | PT-1-24-01-63 | TP-24-02 |
| -07                                           | -D    | PT-1-24-01-22 | TP-03    |
| -XX                                           | -T/-Q | PT-1-24-07-51 | TP-07    |



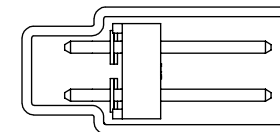
PT-1-24-08-03



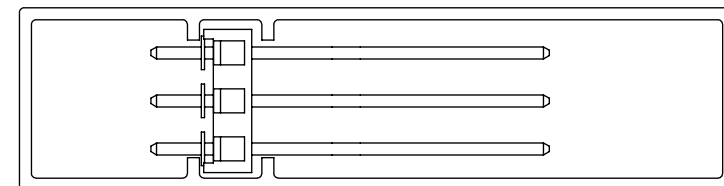
PT-1-24-01-63



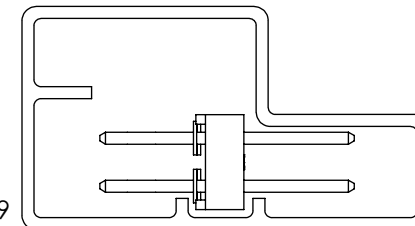
PT-1-24-02-04



PT-1-24-01-22



PT-1-24-07-51



PT-1-24-03-29

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.025 SQ POST HI-TEMP TERMINAL STRIP ASSEMBLY

DWG. NO.  
HTSW-XXX-XX-XXX-X-XX-XX-XX

BY: PURVIS 02/17/87 SHEET 5 OF 7

TABLE 1  
TERMINAL SPECIFICATIONS

| TERMINAL SPEC | PIN #1          | "L"           | PIN #2 (2)     | PIN #3         | "C"                     |
|---------------|-----------------|---------------|----------------|----------------|-------------------------|
| -05 (3)       | T-1S6-21-XXX-2  | .335 [8.51]   | N/A            | N/A            | .105 [2.67] (5)         |
| -06 (3)       | T-1S6-18-XXX-2  | .300 [7.62]   | N/A            | N/A            | .105 [2.67] (5)         |
| -07 (3)       | T-1S6-07-XXX-2  | .430 [10.92]  | N/A            | N/A            | .230 [5.84] (5)         |
| -08 (4)       | T-1S6-08-XXX-2  | .530 [13.46]  | T-1S6-09-XXX-2 | T-1S6-11-XXX-2 | .230 [5.84] (5) (6) (7) |
| -09           | T-1S6-09-XXX-2  | .730 [18.54]  | T-1S6-11-XXX-2 | T-1S6-20-XXX-2 | .230 [5.84] (6)         |
| -10           | T-1S6-10-XXX-2  | .830 [21.08]  | T-1S6-12-XXX-2 | T-1S6-13-XXX-2 | .230 [5.84]             |
| -11           | T-1S6-11-XXX-2  | .930 [23.62]  | T-1S6-20-XXX-2 | T-1S6-19-XXX-2 | .230 [5.84]             |
| -12           | T-1S6-12-XXX-2  | 1.030 [26.16] | T-1S6-13-XXX-2 | T-1S6-14-XXX-2 | .230 [5.84]             |
| -13           | T-1S6-13-XXX-2  | 1.230 [31.24] | T-1S6-14-XXX-2 | N/A            | .230 [5.84]             |
| -14 (3)       | T-1S6-08-XXX-2  | .530 [13.46]  | N/A            | N/A            | .320 [8.13] (5)         |
| -15 (3)       | T-1S6-09-XXX-2  | .730 [18.54]  | N/A            | N/A            | .520 [13.21] (5)        |
| -16           | T-1S6-09-XXX-2  | .730 [18.54]  | T-1S6-11-XXX-2 | T-1S6-20-XXX-2 | .320 [8.13] (5) (6)     |
| -17 (3)       | T-1S6-10-XXX-2  | .830 [21.08]  | N/A            | N/A            | .620 [15.75] (5)        |
| -18 (3)       | T-1S6-11-XXX-2  | .930 [23.62]  | N/A            | N/A            | .720 [18.29] (5)        |
| -19 (3)       | T-1S6-12-XXX-2  | 1.030 [26.16] | N/A            | N/A            | .820 [20.83] (5)        |
| -20 (3)       | T-1S6-13-XXX-2  | 1.230 [31.24] | N/A            | N/A            | 1.020 [25.91] (5)       |
| -21           | T-1S6-14-XXX-2  | 1.430 [36.32] | N/A            | N/A            | 1.220 [30.99] (5)       |
| -21 (1)       | T-1S6-14-XXX-2  | 1.430 [36.32] | N/A            | N/A            | .230 [5.84]             |
| -22           | T-1S6-15-XXX-2  | .630 [16.00]  | T-1S6-10-XXX-2 | T-1S6-12-XXX-2 | .230 [5.84] (5) (6)     |
| -23 (3)       | T-1S6-16-XXX-2  | .445 [11.30]  | N/A            | N/A            | .230 [5.84] (5)         |
| -24 (3)       | T-1S6-17-XXX-2  | .480 [12.19]  | N/A            | N/A            | .265 [6.73] (5)         |
| -25 (4)       | T-1S6-15-XXX-2  | .630 [16.00]  | T-1S6-10-XXX-2 | T-1S6-12-XXX-2 | .320 [8.13] (5) (6)     |
| *-26 (3)      | T-1RS7-01-XXX-2 | .456 [11.58]  | N/A            | N/A            | .230 [5.84]             |
| -27           | T-1S6-19-XXX-2  | 1.330 [33.78] | N/A            | N/A            | .230 [5.84]             |
| -28           | T-1S6-20-XXX-2  | 1.130 [28.70] | T-1S6-19-XXX-2 | N/A            | .230 [5.84]             |
| -29 (4)       | T-1S6-19-XXX-2  | 1.330 [33.78] | N/A            | N/A            | .320 [8.13]             |
| -30 (4)       | T-1S6-20-XXX-2  | 1.130 [28.70] | T-1S6-19-XXX-2 | N/A            | .320 [8.13]             |
| -41           | T-1S6-25-XXX-2  | .365 [9.27]   | N/A            | N/A            | .230 [5.84]             |
| -42           | T-1S6-26-XXX-2  | .470 [11.94]  | N/A            | N/A            | .320 [8.13]             |

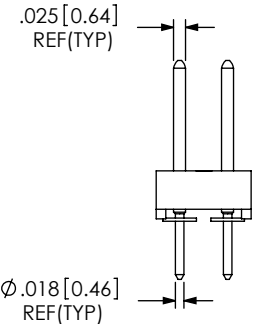


FIG 7  
-26 LEAD STYLE  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

(1) WITH -RA or -RE OPTION  
(2) OMIT WITH -Q ROW SPECIFICATION  
(3) NOT AVAILABLE IN -RA OR -RE OPTION.  
(4) NOT AVAILABLE IN -RE OPTION.  
(5) AVAILABLE IN -LL OPTION.  
(6) AVAILABLE IN -LA OPTION.  
(7) ON STYLE -08 -RA & -LA  
OPTIONS ONLY; 'C' = .230+.005/-.008 [5.84+.13/-.20]  
\*SQUARE END OF PIN(T-1RS7-01-XXX-2)SHOULD BE LOCATED AT "C" DIMENSION DURING FILL PROCESS.  
(SEE FIG 7)

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SHEET SCALE: 3.5:1

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

DESCRIPTION:  
.025 SQ POST HI-TEMP TERMINAL STRIP ASSEMBLY

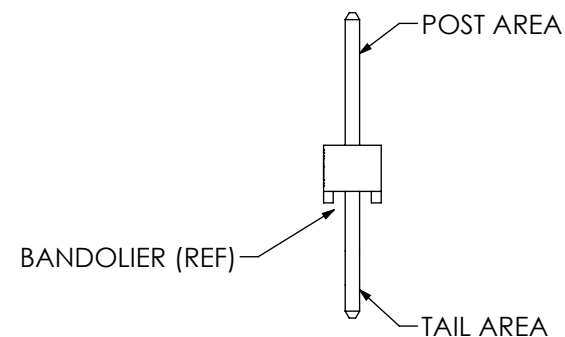
DWG. NO.  
HTSW-XXX-XX-XXX-X-XX-XX-XX

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TABLE 6 (-T PLATING ONLY)

| NUMBER OF BAND MARKS<br>ALLOWED IN POST AREA |        |        |        | NUMBER OF BAND MARKS<br>ALLOWED IN POST AREA |        |        |        |
|----------------------------------------------|--------|--------|--------|----------------------------------------------|--------|--------|--------|
| LEAD STYLE                                   | PIN #1 | PIN #2 | PIN #3 | LEAD STYLE                                   | PIN #1 | PIN #2 | PIN #3 |
| *-05                                         | *0     | N/A    | N/A    | *-17                                         | 2      | N/A    | N/A    |
| -06                                          | 1      | N/A    | N/A    | *-18                                         | 2      | N/A    | N/A    |
| -07                                          | 1      | N/A    | N/A    | *-19                                         | 2      | N/A    | N/A    |
| -08                                          | 0      | 0      | 0      | *-20                                         | 2      | N/A    | N/A    |
| -08 RA                                       | 0      | 0      | 0      | *-21                                         | 2      | N/A    | N/A    |
| -09                                          | 0      | 0      | 0      | -21-RA                                       | 0      | N/A    | N/A    |
| -09 RA                                       | 0      | 0      | 0      | -21-RE                                       | 0      | N/A    | N/A    |
| -09-RE                                       | 0      | 0      | 0      | -22                                          | 0      | 0      | 0      |
| -10                                          | 0      | 0      | 0      | -22-RA                                       | 0      | 0      | 0      |
| -10-RA                                       | 0      | 0      | 0      | -22-RE                                       | 0      | 0      | 0      |
| -10-RE                                       | 0      | 0      | 0      | -23                                          | 1      | N/A    | N/A    |
| -11                                          | 0      | 0      | 0      | -24                                          | 1      | N/A    | N/A    |
| -11-RA                                       | 0      | 0      | 0      | -25                                          | 1      | 1      | 1      |
| -11-RE                                       | 0      | 0      | 0      | *-25-RA                                      | 1      | 0      | 0      |
| -12                                          | 0      | 0      | 0      | *-26                                         | 1      | N/A    | N/A    |
| -12-RA                                       | 0      | 0      | 0      | *-27                                         | 0      | N/A    | N/A    |
| -12-RE                                       | 0      | 0      | 0      | *-27-RA                                      | 0      | N/A    | N/A    |
| -13                                          | 0      | 0      | N/A    | *-27-RE                                      | 0      | N/A    | N/A    |
| -13-RA                                       | 0      | 0      | N/A    | *-28                                         | 0      | 0      | N/A    |
| -13-RE                                       | 0      | 0      | N/A    | *-28-RA                                      | 0      | 0      | N/A    |
| -14                                          | 1      | N/A    | N/A    | *-28-RE                                      | 0      | 0      | N/A    |
| *-15                                         | 2      | N/A    | N/A    | *-29                                         | 1      | N/A    | N/A    |
| *-16                                         | 1      | 1      | 1      | *-29-RA                                      | 1      | N/A    | N/A    |
| *-16-RA                                      | 1      | 1      | 1      | *-30                                         | 1      | 1      | N/A    |
| *-16-RE                                      | 1      | 1      | 1      | *-30-RA                                      | 1      | 1      | N/A    |

\* PINS TO BE FLIPPED OPPOSITE OF SELECTIVE PLATING BEFORE BEING INSERTED



IN PROCESS 1  
(SAME AS FIG. 1, DIFFERENT AS SHOWN)  
-T PLATING ONLY

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DWG. NO.  
HTSW-XXX-XX-XXX-X-XX-XX-XX

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