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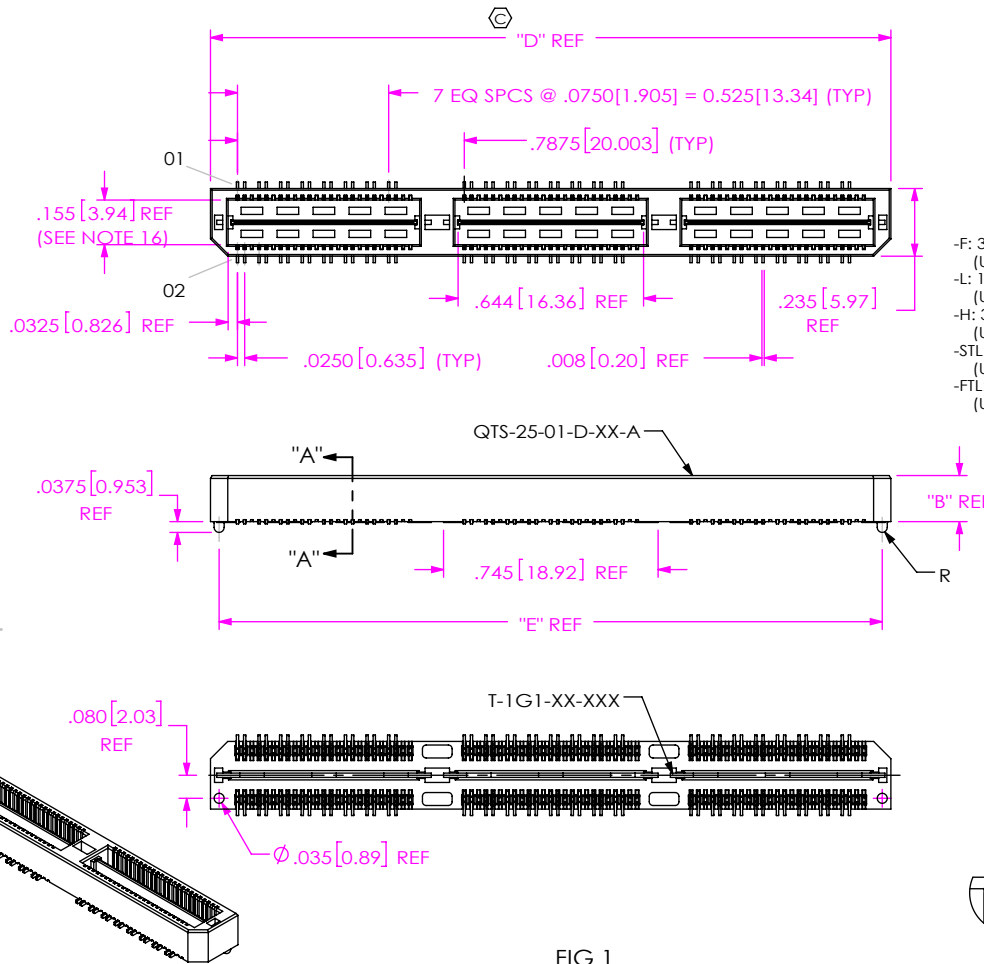


FIG 1

-A: ALIGNMENT PIN OPTION
(QTS-048-01-XXX-D-DP-A SHOWN)

No OF POSITIONS

-016, -032, -048,
**-064, **-080
(PER ROW)

**SEE NOTE 17

LEAD STYLE

-01: .1680 [4.267]
-02: .2861 [7.264]
☒-03: .4042 [1.123]
☒-04: .6000 [15.240]
*☒-05: .7180 [18.237]
*☒-06: .8360 [21.234]

PLATING SPECIFICATION

-F: 3μ" FLASH SELECTIVE GOLD, MATTE TIN TAILS
(USE T-1SXX-XX-F & T-1G1-XX-F) (SEE NOTE 11)
-L: 10μ" LIGHT SELECTIVE GOLD, MATTE TIN TAILS
(USE T-1SXX-XX-L & T-1G1-XX-L)
-H: 30μ" HEAVY GOLD, 3μ" GOLD TAILS
(USE T-1SXX-XX-H & T-1G1-XX-G)
-STL: 30μ" HEAVY SELECTIVE GOLD, TIN LEAD TAILS
(USE T-1SXX-XX-STL & T-1G1-XX-STL)
-FTL: 3μ" FLASH SELECTIVE GOLD, TIN LEAD TAILS
(USE T-1SXX-XX-FTL & T-1G1-XX-FTL)

☒ = SEE SHEET 3

* = NOT ENGINEERING APPROVED

PACKAGING

BLANK: TRAY (SEE NOTES 18 & 19)
-TR: TAPE & REEL (SEE NOTES 19 & 20)
(48 POS MAX)
-FR: FULL REEL QTY TAPE & REEL
(SEE NOTES 19 & 20)
(48 POS MAX)

PICK & PLACE OPTION

-K: POLYIMIDE FILM
(SEE FIG 3, SHT 2)
(USE K-500-300)

OPTION

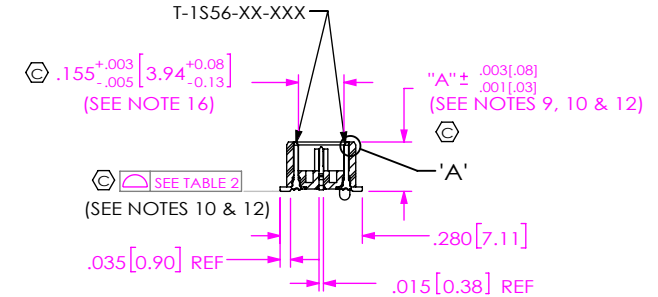
-A: ALIGNMENT PINS (SEE FIG 1)
(USE QTS-25-01-D-XX-A)
-LC: LOCKING CLIPS (SEE FIG 2, NOTE 15)
(USE LC-08-TM-01)
-GP: GUIDE POST, (SEE FIG 6, SHT4)
(AVAILABLE ON STYLE -01 ONLY)

-DP: DIFFERENTIAL PAIRS

ROW SPECIFICATION

-D: DOUBLE (USE QTS-25-XX-D-XX
& QTS-25-XX-D-XX)

No OF BANKS



SECTION "A"-"A"

NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. NOTE DELETED.
3. NOTE DELETED.
4. MINIMUM TERMINAL RETENTION: 5 OZ.
5. MINIMUM GROUND PLANE RETENTION: 1 LB.
6. NOTE WAS DELETED.
7. PARTS TO BE MOLDED TO POSITION.
8. NOTE DELETED.
9. MAXIMUM VARIANCE OF .002 [0.05].
10. DIMENSION APPLIES TO TERMINALS AND GROUND PLANES INDEPENDENT OF THE GROUND PLANE OR TERMINAL RESPECTIVELY.
11. -L PLATING CAN BE SUBSTITUTED FOR -F PLATING.
12. GROUND PLANE PRESS HEIGHT MUST BE .003 [0.08] LESS THAN THE MAX HEIGHT OR .001 [0.03] GREATER THAN THE MINIMUM HEIGHT OF THE TERMINALS.
13. LEAD STYLES -03 THRU -06: TOP BODY (QTS) CANNOT HAVE -A OPTION.
14. NOTE DELETED.
15. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION."
16. MINIMUM ROW TO ROW IS .152. PIN CAN EXTEND PAST WALL .003 MAX.
17. AVAILABLE FOR EXISTING CUSTOMERS ONLY.
18. TRAYS ARE STANDARD PACKAGING.
19. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
20. ATTACH LABEL -4X2 TO EACH REEL.



DETAIL 'A'
SCALE 6 : 1

| No OF POSITIONS | COPLANARITY (INCLUDES GP) |
|-----------------|---------------------------|
| -016 THRU -048 | .004 [10] |
| -064 & -080 | .006 [15] |

| No. Of POS | "D" | "E" |
|------------|----------------|---------------|
| -016 | .788 [20.00] | .728 [18.48] |
| -032 | 1.575 [40.01] | 1.515 [38.48] |
| -048 | 2.363 [60.01] | 2.303 [58.48] |
| -064 | 3.150 [80.01] | 3.090 [78.49] |
| -080 | 3.938 [100.01] | 3.878 [98.49] |

| STYLE | "A" | "B" | BODY | GROUND PLANE | TERMINAL | MATED HEIGHT WITH QSS-01-DP |
|-------|--------------|--------------|----------------|--------------|---------------|-----------------------------|
| -01 | .1680 [4.27] | .1600 [4.06] | QTS-25-01-D-XX | T-1G1-01-XXX | T-1S56-01-XXX | .197 [5.00] REF |
| -02 | .2861 [7.27] | .2781 [7.06] | QTS-25-02-D-XX | T-1G1-02-XXX | T-1S56-22-XXX | .315 [8.00] REF |

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
DECIMALS .XX: ±.01 [3]
.XXX: ±.005 [13]
.XXXX: ±.0020 [051]

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ANGLES ± 2°



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

| | | |
|---------------------------------------|--------------------------------------|---|
| MATERIAL: DO NOT SCALE DRAWING | SHEET SCALE: 1.5:1 | DESCRIPTION: .635mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY |
| INSULATOR: LCP, UL94V-0; COLOR: BLACK | TERMINAL & GROUND PLANE: PHOS BRONZE | DWG. NO. QTS-XXX-XX-XXX-D-DP-XX-X-XX |
| BY: KEVIN B 09/14/2010 | | SHEET 1 OF 4 |

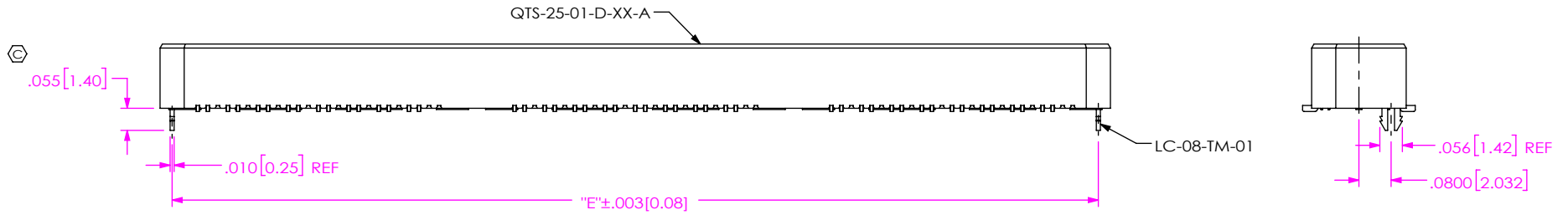


FIG 2
 -LC: LOCKING CLIP OPTION
 (QTS-048-01-XXX-D-DP-LC SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

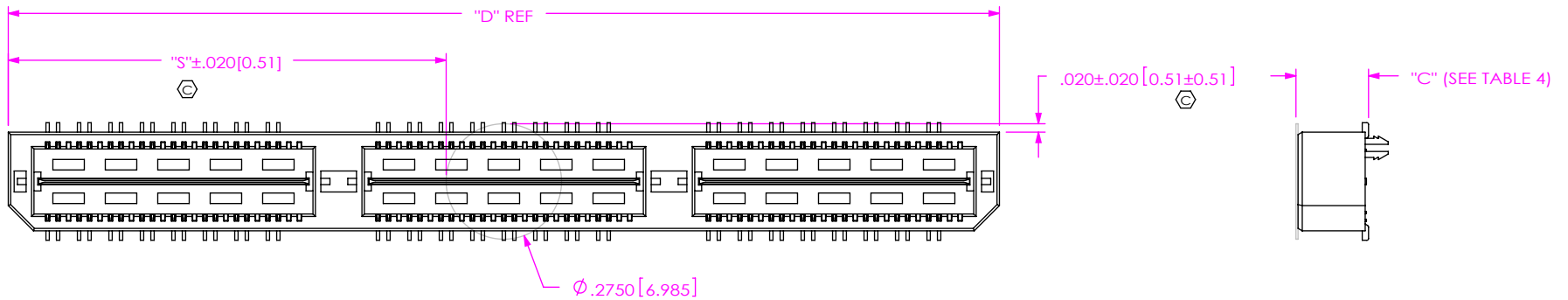


FIG 3
 -K: POLYIMIDE FILM PAD
 (USE K-DOT-500-300)

| No OF POS | "S" |
|-----------|---------------|
| -016 | .256 [6.50] |
| -032 | .650 [16.51] |
| -048 | 1.043 [26.49] |
| -064 | 1.437 [36.50] |
| -080 | 1.831 [46.51] |

| STYLE | "C" |
|-------|--------------|
| -01 | .173 [4.39] |
| -02 | .291 [7.39] |
| -03 | .409 [10.39] |
| -04 | .605 [15.37] |
| -05 | .723 [18.36] |
| -06 | .841 [21.36] |

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DESCRIPTION:
 .635mm DIFFERENTIAL PAIRS HS TERMINAL ASSEMBLY

DWG. NO.
 QTS-XXX-XX-XXX-D-DP-XX-X-XX

BY: KEVIN B 09/14/2010 SHEET 2 OF 4

| TABLE 5 | | | | | MATED HEIGHT WITH QSS-01-DP |
|---------|----------------|--------------|---------------|-------------------|-----------------------------|
| STYLE | "A" | GROUND PLANE | TERMINAL | SPACER BODY | |
| -03 | .4042 [10.267] | T-1G1-03-XXX | T-1S51-03-XXX | QTSH-25-01-D-XX-X | .433 [11.00] REF |
| -04 | .6000 [15.240] | T-1G1-04-XXX | T-1S51-04-XXX | QTSH-25-01-D-XX-X | .630 [16.00] REF |
| -05 | .7180 [18.237] | T-1G1-05-XXX | T-1S51-05-XXX | QTSH-25-02-D-XX-X | .748 [19.00] REF |
| -06 | .8360 [21.234] | T-1G1-06-XXX | T-1S51-06-XXX | QTSH-25-02-D-XX-X | .866 [22.00] REF |

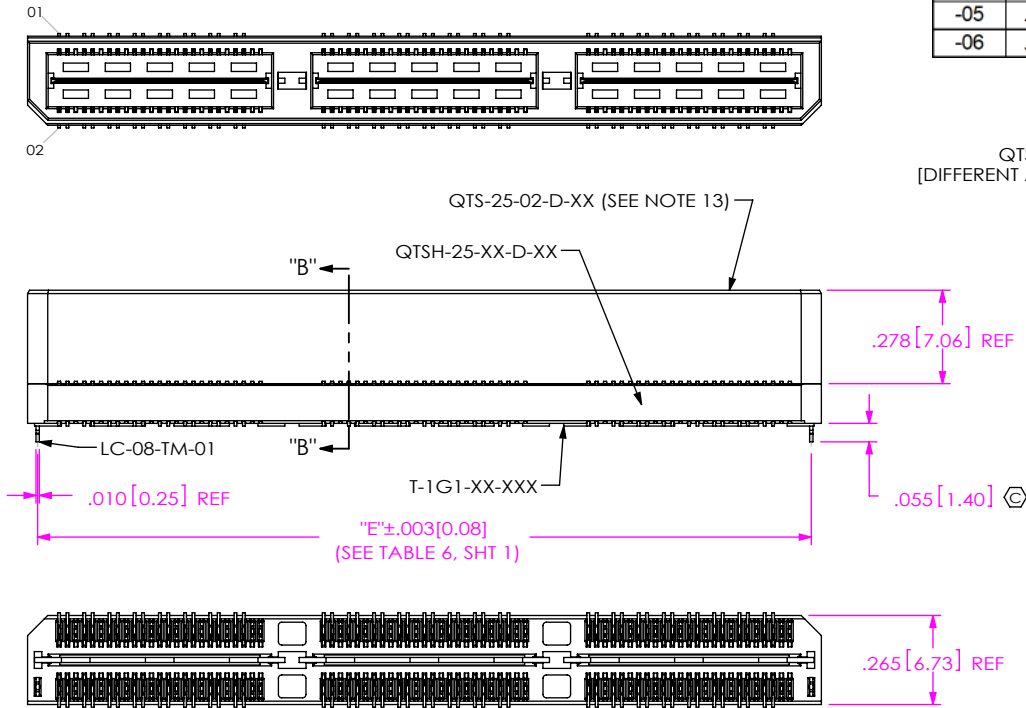


FIG 4
QTS-048-03-XXX-D-DP-LC SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

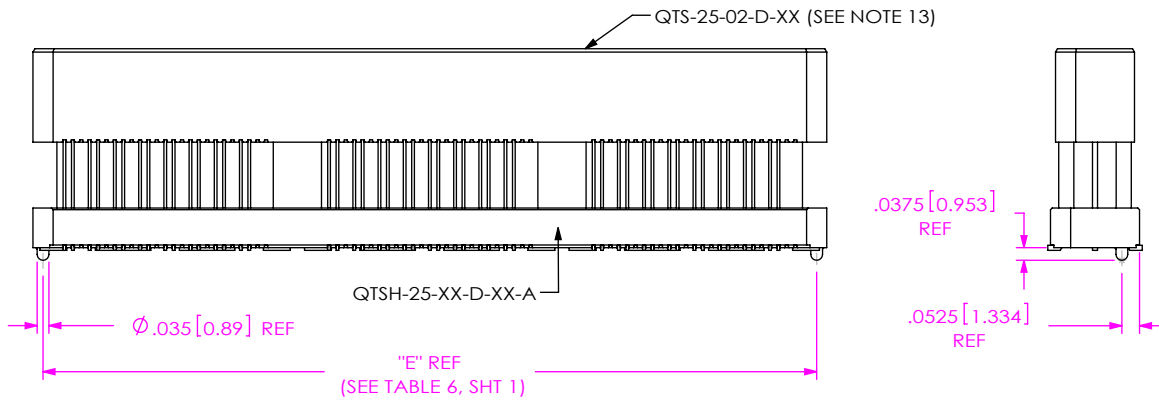
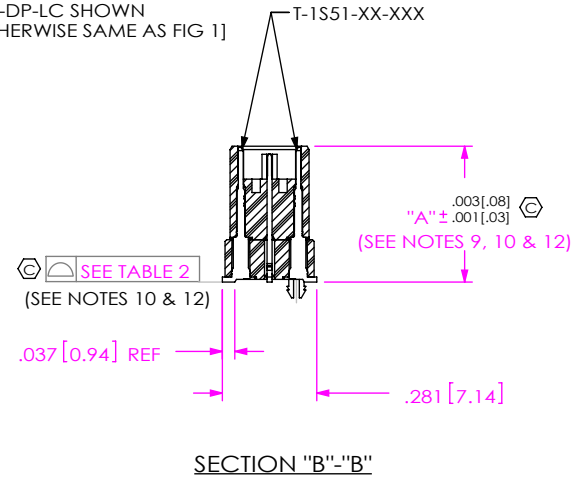


FIG 5
(QTS-048-04-XXX-D-DP-A SHOWN)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(STYLE -03, -04, -05 & -06)

F:\DWG\MISC\MKTG\QTS-XXX-XX-XXX-D-DP-XX-X-XX-MKT.SLDRW

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QTS-XXX-XX-XXX-D-DP-XX-X-XX

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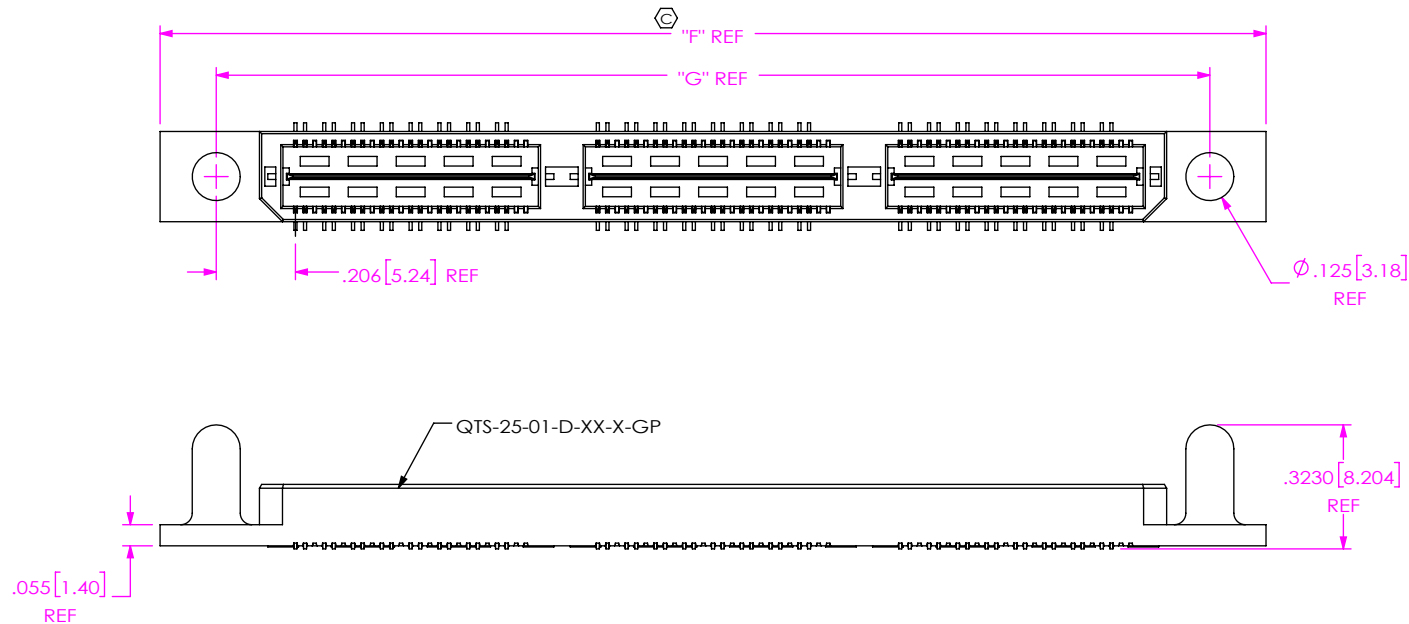


FIG 6
 -GP: GUIDE POST SHOWN
 (QTS-048-01-XXX-D-DP-GP SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
 (AVAILABLE ON STYLE -01 ONLY)

| TABLE 8 | | |
|---------|----------------|----------------|
| POS | "F" | "G" |
| -016 | 1.305 [33.15] | 1.013 [25.72] |
| -032 | 2.093 [53.15] | 1.800 [45.72] |
| -048 | 2.880 [73.15] | 2.588 [65.72] |
| -064 | 3.668 [93.15] | 3.375 [85.73] |
| -080 | 4.455 [113.16] | 4.163 [105.73] |

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