

| LOC | DIST | P | F | REVISIONS |     |                             |  |  |         |      |
|-----|------|---|---|-----------|-----|-----------------------------|--|--|---------|------|
|     |      |   |   | ZONE      | LTR | DESCRIPTION                 |  |  | DATE    | APPD |
| DW  | 00   |   |   |           | AN  | REVISED PER EC 0513-0432-03 |  |  | 05JAN04 | JG   |

1 MATERIALS:  
HOUSING- PPA RESIN, BLACK,  
MOLDING COMPOUND.  
CONTACTS- PHOSPHOR BRONZE PLATED WITH  
MINIMUM THICK (SEE TABLE) GOLD IN CONTACT  
AREA AND 3.8µm [.000150] MINIMUM THICK  
TIN-LEAD ON SOLDER TINES OVER 1.27µm  
[.000050] MINIMUM THICK NICKEL UNDERPLATE.  
RETENTION LEG- BRASS PLATED WITH 3.8µm  
[.000150] MINIMUM TIN-LEAD OVER 1.3µm  
[.000051] MINIMUM NICKEL UNDERPLATE.

2 G, J, AND H INDICATE NUMBER OF POSITION  
MARKED ON ASSEMBLY. ALSO SEE TABLE.

3 ALL DIMENSIONS SHOWN ARE MAXIMUM UNLESS  
OTHERWISE SPECIFIED.

4. 60 POSITION AS SHOWN.

5 RETENTION LEGS NOT PRESENT.

6 TOP OF RETENTION LEG MAY NOT PROTRUDE ABOVE THIS SURFACE.

7 HOUSING BOW UP TO 0.30 [.012] ALLOWED.

8 CONNECTOR WILL ACCOMMODATE MATING PRINTED  
CIRCUIT BOARD OF 1.6±0.07 [.063±.003]  
THICKNESS.

9 PRELIMINARY - NOT RELEASED FOR PRODUCTION.

|               |                        |                |                   |                   |                   |                   |     |     |     |                      |      |            |
|---------------|------------------------|----------------|-------------------|-------------------|-------------------|-------------------|-----|-----|-----|----------------------|------|------------|
| 9             | 2.36<br>[.093]         | 3.40<br>[.134] | 38.53<br>[1.517]  | 49.45<br>[1.947]  | 46.81<br>[1.843]  | 42.37<br>[1.668]  | 30  | 60  | 31  | 0.00076<br>[.000030] | 60   | 5-557103-2 |
| 9             | 2.36<br>[.093]         | 2.54<br>[.100] | 43.61<br>[1.717]  | 54.53<br>[2.147]  | 51.89<br>[2.043]  | 47.45<br>[1.868]  | 34  | 68  | 35  | 0.00076<br>[.000030] | 68   | 5-557103-1 |
| 9             | 2.36<br>[.093]         | 3.30<br>[.130] | 32.18<br>[1.267]  | 43.10<br>[1.697]  | 40.46<br>[1.593]  | 36.02<br>[1.418]  | 25  | 50  | 26  | 0.00076<br>[.000030] | 50   | 5-577103-0 |
|               | 2.36<br>[.093]         | 3.30<br>[.130] | 76.63<br>[3.017]  | 87.55<br>[3.447]  | 84.91<br>[3.343]  | 80.47<br>[3.168]  | 60  | 120 | 61  | 0.00076<br>[.000030] | 120  | 4-557103-9 |
|               | 2.36<br>[.093]         | 3.30<br>[.130] | 127.43<br>[5.017] | 138.35<br>[5.447] | 135.71<br>[5.343] | 131.27<br>[5.168] | 100 | 200 | 101 | 0.00076<br>[.000030] | 200  | 4-557103-2 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 127.43<br>[5.017] | 138.35<br>[5.447] | 135.71<br>[5.343] | 131.27<br>[5.168] | 100 | 200 | 101 | 0.00076<br>[.000030] | 200  | 4-557103-1 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 102.03<br>[4.017] | 112.95<br>[4.447] | 110.31<br>[4.343] | 105.87<br>[4.168] | 80  | 160 | 81  | 0.00076<br>[.000030] | 160  | 3-557103-7 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 82.98<br>[3.267]  | 93.90<br>[3.697]  | 91.26<br>[3.593]  | 86.82<br>[3.418]  | 65  | 130 | 66  | 0.00076<br>[.000030] | 130  | 3-557103-3 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 76.63<br>[3.017]  | 87.55<br>[3.447]  | 84.91<br>[3.343]  | 80.47<br>[3.168]  | 60  | 120 | 61  | 0.00076<br>[.000030] | 120  | 2-557103-9 |
|               | 2.36<br>[.093]         | 3.30<br>[.130] | 63.93<br>[2.517]  | 74.85<br>[2.947]  | 72.21<br>[2.843]  | 67.77<br>[2.668]  | 50  | 100 | 51  | 0.00076<br>[.000030] | 100  | 2-557103-7 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 63.93<br>[2.517]  | 74.85<br>[2.947]  | 72.21<br>[2.843]  | 67.77<br>[2.668]  | 50  | 100 | 51  | 0.00076<br>[.000030] | 100  | 2-557103-6 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 63.93<br>[2.517]  | 74.85<br>[2.947]  | 72.21<br>[2.843]  | 67.77<br>[2.668]  | 50  | 100 | 51  | 0.00076<br>[.000030] | 100  | 2-557103-5 |
|               | 2.36<br>[.093]         | 3.30<br>[.130] | 51.23<br>[2.017]  | 62.15<br>[2.447]  | 59.51<br>[2.343]  | 55.07<br>[2.168]  | 40  | 80  | 41  | 0.00076<br>[.000030] | 80   | 2-557103-3 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 51.23<br>[2.017]  | 62.15<br>[2.447]  | 59.51<br>[2.343]  | 55.07<br>[2.168]  | 40  | 80  | 41  | 0.00076<br>[.000030] | 80   | 2-557103-2 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 51.23<br>[2.017]  | 62.15<br>[2.447]  | 59.51<br>[2.343]  | 55.07<br>[2.168]  | 40  | 80  | 41  | 0.00076<br>[.000030] | 80   | 2-557103-1 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 43.61<br>[1.717]  | 54.53<br>[2.147]  | 51.89<br>[2.043]  | 47.45<br>[1.868]  | 34  | 68  | 35  | 0.00076<br>[.000030] | 68   | 1-557103-7 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 43.61<br>[1.717]  | 54.53<br>[2.147]  | 51.89<br>[2.043]  | 47.45<br>[1.868]  | 34  | 68  | 35  | 0.00076<br>[.000030] | 68   | 1-557103-3 |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 32.18<br>[1.267]  | 43.10<br>[1.697]  | 40.46<br>[1.593]  | 36.02<br>[1.418]  | 25  | 50  | 26  | 0.00076<br>[.000030] | 50   | 557103-9   |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | 25.83<br>[1.017]  | 36.75<br>[1.447]  | 34.11<br>[1.343]  | 29.67<br>[1.168]  | 20  | 40  | 21  | 0.00076<br>[.000030] | 40   | 557103-5   |
|               | 0.8-1.6<br>[.031-.063] | 2.54<br>[.100] | -                 | 30.40<br>[1.197]  | 27.96<br>[1.101]  | 23.32<br>[.918]   | 15  | 30  | 16  | 0.00076<br>[.000030] | 30   | 557103-1   |
| PCB THICKNESS |                        | G              | F                 | C                 | B                 | A                 | G   | J   | H   | GOLD                 | POSN | PART NO    |

SUPERSEDED  
BY 3-786925-3

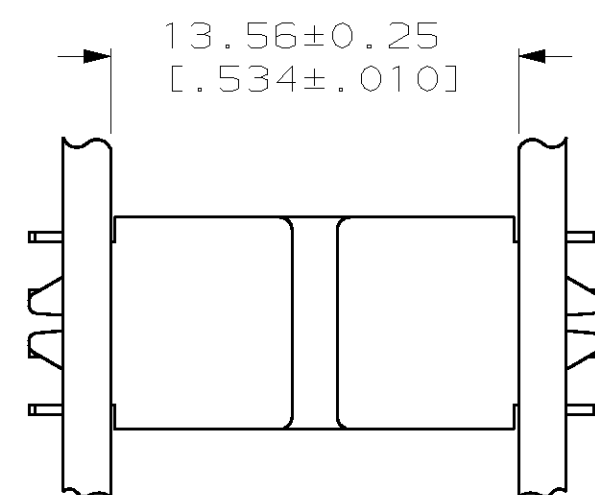
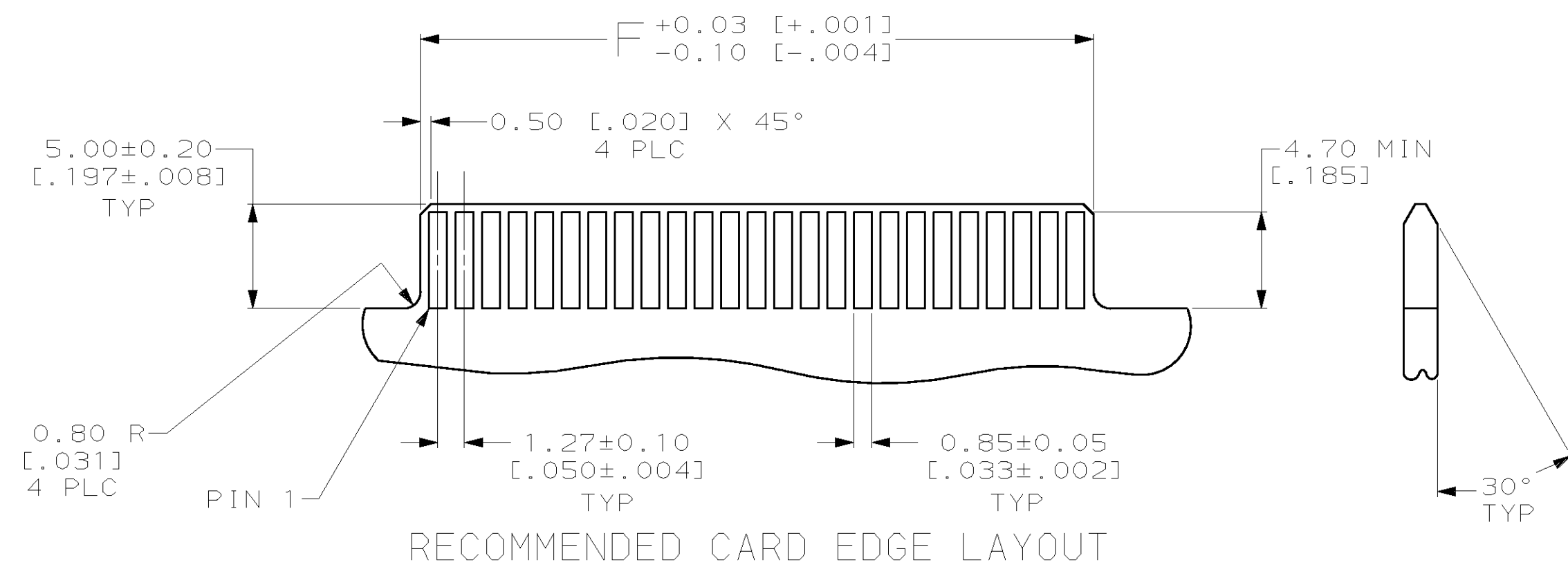
OBSOLETE

DO NOT SCALE PRINT.  
UNLESS SPECIFIED  
DIMENSIONS IN mm [INCHES]  
TOLERANCES ON :  
2 PLC DEC ±  
3 PLC DEC ±  
ANGLES ±  
MATERIAL  
FINISH  
WEIGHT

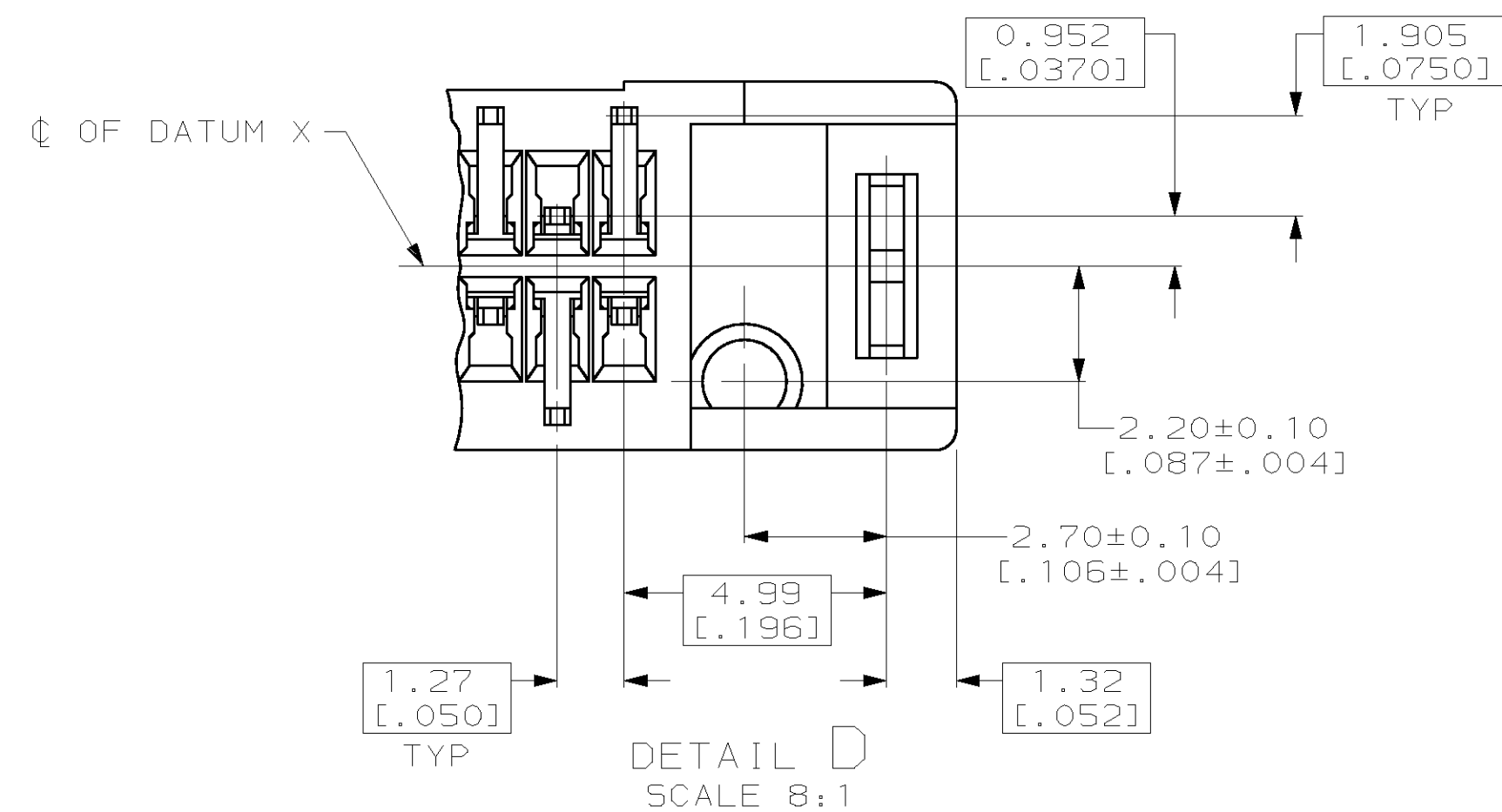
DR 8-25-89  
A.HOLT  
CHK 10-3-89  
N.JONES  
APPD 12-4-89  
T.PIZZULO  
APPD 12-4-89  
J.B.WILKERSON  
PRODUCT SPEC  
108-1367  
APPLICATION SPEC  
114-6045

AMP INCORPORATED  
Harrisburg, Pa. 17105  
NAME  
RECEPTACLE ASSEMBLY, VERTICAL,  
BOARD TO BOARD, CHAMP™ 1050,  
SERIES I  
SIZE  
CAGE CODE  
DRAWING NO  
SCALE  
1 OF 2

SUPERSEDED  
NOT the LATEST  
REVISION  
557103



VERTICAL RECEPTACLE ASSEMBLY MATED  
TO VERTICAL PLUG ASSEMBLY



SECTION E-E  
SCALE 8:1

VERTICAL RECEPTACLE ASSEMBLY MATED  
TO RIGHT ANGLE PLUG ASSEMBLY

|                                                                                                                                         |                               |                                                                                                                                 |                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                                                                                                                         |                               | PART NO                                                                                                                         |                                                                           |
| DO NOT SCALE PRINT.<br>UNLESS SPECIFIED<br>DIMENSIONS IN mm [INCHES]<br>TOLERANCES ON :<br>2 PLC DEC ± -<br>3 PLC DEC ± -<br>ANGLES * - | DR 8-25-89<br>A.HOLT          |  AMP INCORPORATED<br>Harrisburg, Pa. 17105 |                                                                           |
|                                                                                                                                         | CHK 10-3-89<br>N.JONES        |                                                                                                                                 |                                                                           |
| MATERIAL<br><br>-                                                                                                                       | APPD 12-4-89<br>T.PIZZULO     | NAME                                                                                                                            | RECEPTACLE ASSEMBLY, VERTICAL,<br>BOARD-TOBOARD, CHAMP™ .050,<br>SERIES I |
|                                                                                                                                         | APPD 12-4-89<br>J.B.WILKERSON |                                                                                                                                 |                                                                           |
| FINISH<br><br>-                                                                                                                         | PRODUCT SPEC<br><br>-         | SIZE<br>D                                                                                                                       | CAGE CODE<br>00779                                                        |
|                                                                                                                                         | APPLICATION SPEC<br><br>-     |                                                                                                                                 |                                                                           |
| WEIGHT -                                                                                                                                |                               | SCALE 4:1                                                                                                                       | SHEET 2 OF 2                                                              |