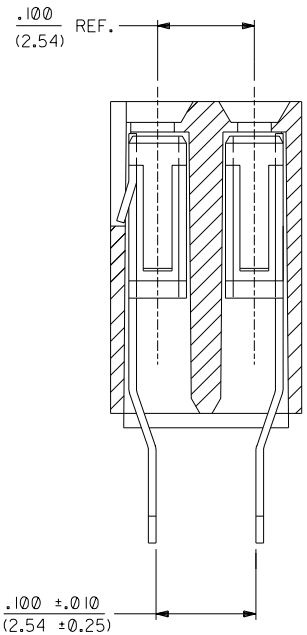
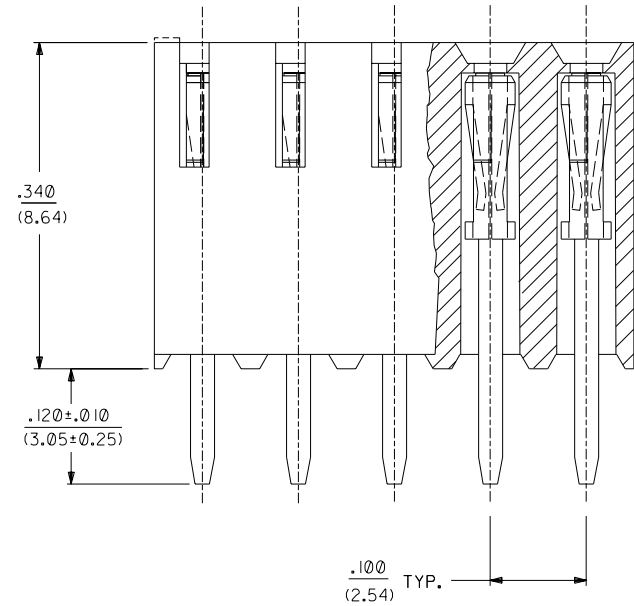
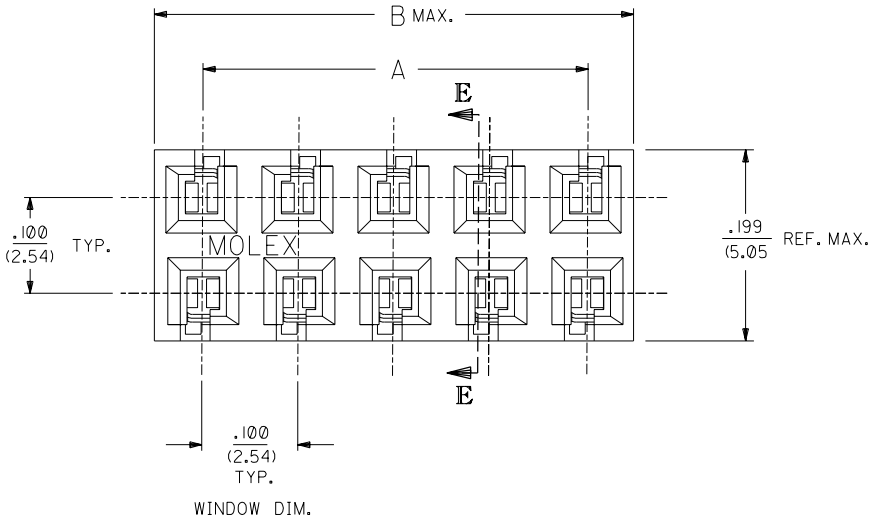
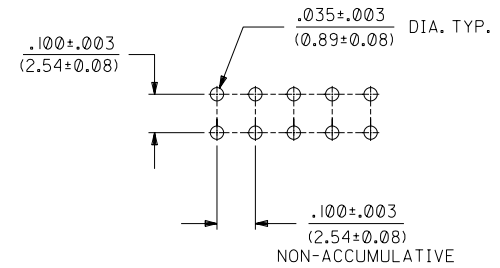




- NOTES:
- 1 - HOUSING MATERIAL: GLASS FILLED POLYESTER, UL 94V-0.  
COLOR: BLACK
  - 2 - TERMINAL MATERIAL: PHOSPHOR BRONZE
  - 3 - SEE ADDITIONAL SHEETS FOR CHARTS, PLATINGS, AND OVERALL DIMENSIONS
  - 4 - THIS PRODUCT CONFORMS TO PS-70181.



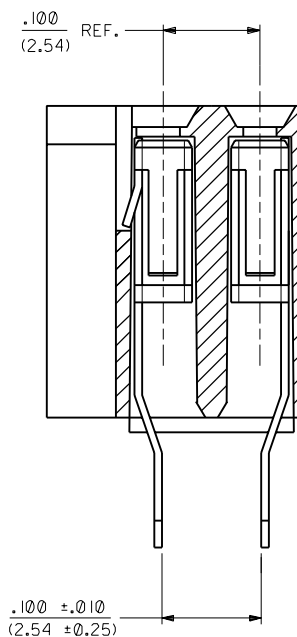
RECOMMENDED P.C. BOARD  
HOLE LAYOUT  
SCALE = 4:1

SECTION E-E

| DIMENSIONS SHOWN (METRIC) INCH                       |        | UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°                                                                 |  | REVISIONS |      |
|------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|--|-----------|------|
|                                                      |        |                                                                                                                       |  | REV.      | LTR. |
| 3 PLACE                                              | ± .010 | ---                                                                                                                   |  | 3         | C    |
| 2 PLACE                                              | ± .014 | ± 0.25                                                                                                                |  | 2         | A    |
| 1 PLACE                                              | ---    | ± 0.35                                                                                                                |  | 1         | C    |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | REVISIONS                                                                                                             |  | DATE      |      |
| DRWG. BY PM                                          |        | CHK'D. BY PM                                                                                                          |  | DATE      |      |
| APP'D. BY PM                                         |        | SCALE 10: 1                                                                                                           |  | DIV. SIZE |      |
| FILE NAME SAT0192X1.DGN                              |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | DA C      |      |

|   |                                                     |
|---|-----------------------------------------------------|
| C | LEAD FREE UCP2004-1770 RWHITE 04/04/28              |
| B | CHANGE PACK SPEC ECA* UDT2000-0503 DMORGAN 99/12/09 |
| A | REVISE PLATE & BOX PER U3 0572 09/10/93 MURPHY      |

|                    |                  |               |
|--------------------|------------------|---------------|
| MOLEX INCORPORATED | SHEET NO. 1 OF 3 | DATE 09/10/93 |
| SEE CHART          | SDA-70192-****   |               |



SINGAPORE ONLY  
OPTION -F-  
WITH POLARIZING KEY

SECTION E-E

| DIMENSIONS SHOWN (METRIC) INCH                                                                                                                                                                                                                                                           |       |        |  | MFG. SH. REV. LTR.                                                                                                                                                                                                                                                                                                                                          |  | REVISIONS                                                                                                                 |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------|-------|--|--|---------|-------|--|--|---------|-------|--|--|-----------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCE $\pm$ ANGULAR $\pm 1/2^\circ$                                                                                                                                                                                                                    |       |        |  |  =   =  |  | REVISE ONLY ON CAD SYSTEM                                                                                                 |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| TITLE                                                                                                                                                                                                                                                                                    |       |        |  | CONNECTOR, VERT. MOUNT, DUAL ROW<br>(TOP ENTRY). 100 X .100<br>P.C. TAIL GRID                                                                                                                                                                                                                                                                               |  |                                                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| <table><tr><th colspan="2">INCH</th><th colspan="2">METRIC</th></tr><tr><td>3 PLACE</td><td><math>\pm</math></td><td></td><td></td></tr><tr><td>2 PLACE</td><td><math>\pm</math></td><td></td><td></td></tr><tr><td>1 PLACE</td><td><math>\pm</math></td><td></td><td></td></tr></table> |       |        |  | INCH                                                                                                                                                                                                                                                                                                                                                        |  | METRIC                                                                                                                    |  | 3 PLACE | $\pm$ |  |  | 2 PLACE | $\pm$ |  |  | 1 PLACE | $\pm$ |  |  |  <b>MOLEX INCORPORATED</b> |  | SHEET NO. <u>2</u> DATE <u>07/17/90</u> |  |
| INCH                                                                                                                                                                                                                                                                                     |       | METRIC |  |                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| 3 PLACE                                                                                                                                                                                                                                                                                  | $\pm$ |        |  |                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| 2 PLACE                                                                                                                                                                                                                                                                                  | $\pm$ |        |  |                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| 1 PLACE                                                                                                                                                                                                                                                                                  | $\pm$ |        |  |                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| DRAW IF THERE APPLICABLE MUST<br>REMAIN WITH DIMENSIONS                                                                                                                                                                                                                                  |       |        |  | PART NO. <u>58052</u>                                                                                                                                                                                                                                                                                                                                       |  | DRWG. NO. <u>SDA-70192-0000</u>                                                                                           |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
| DRWG. BY: <u>PM</u> CHK'D. BY: <u>PM</u><br>APP'D. BY: <u>PM</u> SCALE: <u>1</u>                                                                                                                                                                                                         |       |        |  | FILE NAME: <u>SA701922.DGN</u>                                                                                                                                                                                                                                                                                                                              |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |
|                                                                                                                                                                                                                                                                                          |       |        |  |                                                                                                                                                                                                                                                                                                                                                             |  | DIV. <u>DA</u> SIZE <u>C</u>                                                                                              |  |         |       |  |  |         |       |  |  |         |       |  |  |                                                                                                                 |  |                                         |  |

|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         |        |   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------|--------------|----------------------------------------------|--------------|----------------------------------------------|--------------|-----------------------------------------------------------------------------|--------------|---------|-------|---------|--------|---|
|   | 13                                                                                                                                                                                                                            | 12    | 11                                       | 10           | 9                                            | 8            | 7                                            | 6            | 4                                                                           |              | 3       | 2     | 1       |        |   |
| J | CKT SIZE                                                                                                                                                                                                                      |       | PLATING: TIN<br>PACKAGING: PK-70873-0660 |              | PLATING: 15 GOLD<br>PACKAGING: PK-70873-0660 |              | PLATING: 30 GOLD<br>PACKAGING: PK-70873-0660 |              | OPTION F ASSEMBLY<br>TOOLED IN SINGAPORE ONLY<br>(SEE SHEET 2 FOR GEOMETRY) |              |         |       |         | J      |   |
| I | PER ROW                                                                                                                                                                                                                       | TOTAL | EDP NO.                                  | ENG NO.      | EDP NO.                                      | ENG NO.      | EDP NO.                                      | ENG NO.      | EDP NO.                                                                     | ENG NO.      | DIM."A" |       | DIM."B" |        | I |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              | INCH    | MM    | INCH    | MM     |   |
|   | 02                                                                                                                                                                                                                            | 04    | 15-45-1302                               | A-70192-0065 | 15-44-3202                                   | A-70192-0129 | 15-44-4502                                   | A-70192-0193 |                                                                             |              | .100    | 2,54  | .199    | 5,05   |   |
|   | 03                                                                                                                                                                                                                            | 06    | 15-45-1303                               | A-70192-0066 | 15-44-3203                                   | A-70192-0130 | 15-44-4503                                   | A-70192-0194 |                                                                             |              | .200    | 5,08  | .299    | 7,59   |   |
|   | 04                                                                                                                                                                                                                            | 08    | 15-45-1304                               | A-70192-0067 | 15-44-3204                                   | A-70192-0131 | 15-44-4504                                   | A-70192-0195 |                                                                             |              | .300    | 7,62  | .399    | 10,13  |   |
|   | 05                                                                                                                                                                                                                            | 10    | 15-45-1305                               | A-70192-0068 | 15-44-3205                                   | A-70192-0132 | 15-44-4505                                   | A-70192-0196 |                                                                             |              | .400    | 10,16 | .499    | 12,67  |   |
|   | 06                                                                                                                                                                                                                            | 12    | 15-45-1306                               | A-70192-0069 | 15-44-3206                                   | A-70192-0133 | 15-44-4506                                   | A-70192-0197 |                                                                             |              | .500    | 12,70 | .599    | 15,21  |   |
|   | 07                                                                                                                                                                                                                            | 14    | 15-45-1307                               | A-70192-0070 | 15-44-3207                                   | A-70192-0134 | 15-44-4507                                   | A-70192-0198 |                                                                             |              | .600    | 15,24 | .699    | 17,75  |   |
| H | 08                                                                                                                                                                                                                            | 16    | 15-45-1308                               | A-70192-0071 | 15-44-3208                                   | A-70192-0135 | 15-44-4508                                   | A-70192-0199 |                                                                             |              | .700    | 17,78 | .799    | 20,29  |   |
|   | 09                                                                                                                                                                                                                            | 18    | 15-45-1309                               | A-70192-0072 | 15-44-3209                                   | A-70192-0136 | 15-44-4509                                   | A-70192-0200 |                                                                             |              | .800    | 20,32 | .899    | 22,83  |   |
|   | 10                                                                                                                                                                                                                            | 20    | 15-45-1310                               | A-70192-0073 | 15-44-3210                                   | A-70192-0137 | 15-44-4510                                   | A-70192-0201 |                                                                             |              | .900    | 22,86 | .999    | 25,37  |   |
|   | 11                                                                                                                                                                                                                            | 22    | 15-45-1311                               | A-70192-0074 | 15-44-3211                                   | A-70192-0138 | 15-44-4511                                   | A-70192-0202 |                                                                             |              | 1.000   | 25,40 | 1.099   | 27,91  |   |
|   | 12                                                                                                                                                                                                                            | 24    | 15-45-1312                               | A-70192-0075 | 15-44-3212                                   | A-70192-0139 | 15-44-4512                                   | A-70192-0203 |                                                                             |              | 1.100   | 27,94 | 1.199   | 30,45  |   |
|   | 13                                                                                                                                                                                                                            | 26    | 15-45-1313                               | A-70192-0076 | 15-44-3213                                   | A-70192-0140 | 15-44-4513                                   | A-70192-0204 |                                                                             |              | 1.200   | 30,48 | 1.299   | 32,99  |   |
|   | 14                                                                                                                                                                                                                            | 28    | 15-45-1314                               | A-70192-0077 | 15-44-3214                                   | A-70192-0141 | 15-44-4514                                   | A-70192-0205 |                                                                             |              | 1.300   | 33,02 | 1.399   | 35,53  |   |
|   | 15                                                                                                                                                                                                                            | 30    | 15-45-1315                               | A-70192-0078 | 15-44-3215                                   | A-70192-0142 | 15-44-4515                                   | A-70192-0206 |                                                                             |              | 1.400   | 35,56 | 1.499   | 38,07  |   |
| G | 16                                                                                                                                                                                                                            | 32    | 15-45-1316                               | A-70192-0079 | 15-44-3216                                   | A-70192-0143 | 15-44-4516                                   | A-70192-0207 |                                                                             |              | 1.500   | 38,10 | 1.599   | 40,61  |   |
|   | 17                                                                                                                                                                                                                            | 34    | 15-45-1317                               | A-70192-0080 | 15-44-3217                                   | A-70192-0144 | 15-44-4517                                   | A-70192-0208 |                                                                             |              | 1.600   | 40,64 | 1.699   | 43,15  |   |
|   | 18                                                                                                                                                                                                                            | 36    | 15-45-1318                               | A-70192-0081 | 15-44-3218                                   | A-70192-0145 | 15-44-4518                                   | A-70192-0209 |                                                                             |              | 1.700   | 43,18 | 1.799   | 45,69  |   |
|   | 19                                                                                                                                                                                                                            | 38    | 15-45-1319                               | A-70192-0082 | 15-44-3219                                   | A-70192-0146 | 15-44-4519                                   | A-70192-0210 |                                                                             |              | 1.800   | 45,72 | 1.899   | 48,23  |   |
|   | 20                                                                                                                                                                                                                            | 40    | 15-45-1320                               | A-70192-0083 | 15-44-3220                                   | A-70192-0147 | 15-44-4520                                   | A-70192-0211 |                                                                             |              | 1.900   | 48,26 | 1.999   | 50,77  |   |
|   | 21                                                                                                                                                                                                                            | 42    | 15-45-1321                               | A-70192-0084 | 15-44-3221                                   | A-70192-0148 | 15-44-4521                                   | A-70192-0212 |                                                                             |              | 2.000   | 50,80 | 2.099   | 53,31  |   |
|   | 22                                                                                                                                                                                                                            | 44    | 15-45-1322                               | A-70192-0085 | 15-44-3222                                   | A-70192-0149 | 15-44-4522                                   | A-70192-0213 |                                                                             |              | 2.100   | 53,34 | 2.199   | 55,85  |   |
|   | 23                                                                                                                                                                                                                            | 46    | 15-45-1323                               | A-70192-0086 | 15-44-3223                                   | A-70192-0150 | 15-44-4523                                   | A-70192-0214 |                                                                             |              | 2.200   | 55,88 | 2.299   | 58,39  |   |
| F | 24                                                                                                                                                                                                                            | 48    | 15-45-1324                               | A-70192-0087 | 15-44-3224                                   | A-70192-0151 | 15-44-4524                                   | A-70192-0215 |                                                                             |              | 2.300   | 58,42 | 2.399   | 60,93  |   |
|   | 25                                                                                                                                                                                                                            | 50    | 15-45-1325                               | A-70192-0088 | 15-44-3225                                   | A-70192-0152 | 15-44-4525                                   | A-70192-0216 | 15-44-6625                                                                  | A-70192-0280 | 2.400   | 60,96 | 2.499   | 63,47  |   |
|   | 26                                                                                                                                                                                                                            | 52    | 15-45-1326                               | A-70192-0089 | 15-44-3226                                   | A-70192-0153 | 15-44-4526                                   | A-70192-0217 |                                                                             |              | 2.500   | 63,50 | 2.599   | 66,01  |   |
|   | 27                                                                                                                                                                                                                            | 54    | 15-45-1327                               | A-70192-0090 | 15-44-3227                                   | A-70192-0154 | 15-44-4527                                   | A-70192-0218 |                                                                             |              | 2.600   | 66,04 | 2.699   | 68,55  |   |
|   | 28                                                                                                                                                                                                                            | 56    | 15-45-1328                               | A-70192-0091 | 15-44-3228                                   | A-70192-0155 | 15-44-4528                                   | A-70192-0219 |                                                                             |              | 2.700   | 68,58 | 2.799   | 71,09  |   |
|   | 29                                                                                                                                                                                                                            | 58    | 15-45-1329                               | A-70192-0092 | 15-44-3229                                   | A-70192-0156 | 15-44-4529                                   | A-70192-0220 |                                                                             |              | 2.800   | 71,12 | 2.899   | 73,63  |   |
|   | 30                                                                                                                                                                                                                            | 60    | 15-45-1330                               | A-70192-0093 | 15-44-3230                                   | A-70192-0157 | 15-44-4530                                   | A-70192-0221 |                                                                             |              | 2.900   | 73,66 | 2.999   | 76,17  |   |
|   | 31                                                                                                                                                                                                                            | 62    | 15-45-1331                               | A-70192-0094 | 15-44-3231                                   | A-70192-0158 | 15-44-4531                                   | A-70192-0222 |                                                                             |              | 3.000   | 76,20 | 3.099   | 78,71  |   |
| E | 32                                                                                                                                                                                                                            | 64    | 15-45-1332                               | A-70192-0095 | 15-44-3232                                   | A-70192-0159 | 15-44-4532                                   | A-70192-0223 |                                                                             |              | 3.100   | 78,74 | 3.199   | 81,25  |   |
|   | 33                                                                                                                                                                                                                            | 66    | 15-45-1333                               | A-70192-0096 | 15-44-3233                                   | A-70192-0160 | 15-44-4533                                   | A-70192-0224 |                                                                             |              | 3.200   | 81,28 | 3.299   | 83,79  |   |
|   | 34                                                                                                                                                                                                                            | 68    | 15-45-1334                               | A-70192-0097 | 15-44-3234                                   | A-70192-0161 | 15-44-4534                                   | A-70192-0225 |                                                                             |              | 3.300   | 83,82 | 3.399   | 86,33  |   |
|   | 35                                                                                                                                                                                                                            | 70    | 15-45-1335                               | A-70192-0098 | 15-44-3235                                   | A-70192-0162 | 15-44-4535                                   | A-70192-0226 |                                                                             |              | 3.400   | 86,36 | 3.499   | 88,87  |   |
|   | 36                                                                                                                                                                                                                            | 72    | 15-45-1336                               | A-70192-0099 | 15-44-3236                                   | A-70192-0163 | 15-44-4536                                   | A-70192-0227 |                                                                             |              | 3.500   | 88,90 | 3.599   | 91,41  |   |
|   | 37                                                                                                                                                                                                                            | 74    | 15-45-1337                               | A-70192-0100 | 15-44-3237                                   | A-70192-0164 | 15-44-4537                                   | A-70192-0228 |                                                                             |              | 3.600   | 91,44 | 3.699   | 93,95  |   |
|   | 38                                                                                                                                                                                                                            | 76    | 15-45-1338                               | A-70192-0101 | 15-44-3238                                   | A-70192-0165 | 15-44-4538                                   | A-70192-0229 |                                                                             |              | 3.700   | 93,98 | 3.799   | 96,49  |   |
|   | 39                                                                                                                                                                                                                            | 78    | 15-45-1339                               | A-70192-0102 | 15-44-3239                                   | A-70192-0166 | 15-44-4539                                   | A-70192-0230 |                                                                             |              | 3.800   | 96,52 | 3.899   | 99,03  |   |
| D | 40                                                                                                                                                                                                                            | 80    | 15-45-1340                               | A-70192-0103 | 15-44-3240                                   | A-70192-0167 | 15-44-4540                                   | A-70192-0231 |                                                                             |              | 3.900   | 99,06 | 3.999   | 101,57 |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | C      |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | B      |   |
|   | *THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO<br>RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC".<br>CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.<br>PLATING:                   |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | B      |   |
|   | TIN (3.75 MICROMETER)/150 MICROINCH MINIMUM TIN OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.                                                                                                                |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | A      |   |
|   | 15 GOLD (0.37 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | A      |   |
|   | 30 GOLD (0.75 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | A      |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       |         | A      |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
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|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
|   |                                                                                                                                                                                                                               |       |                                          |              |                                              |              |                                              |              |                                                                             |              |         |       | A       |        |   |
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