

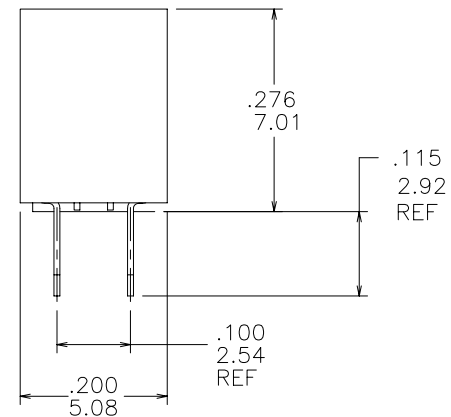
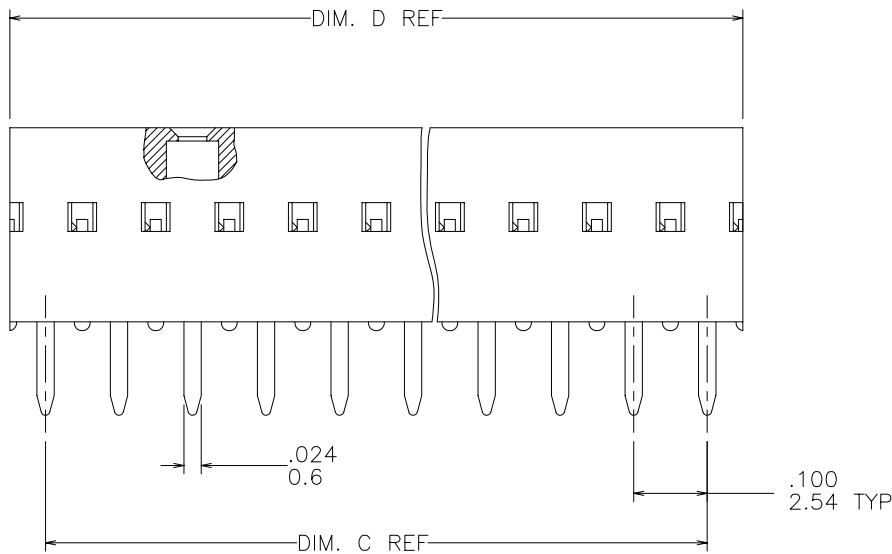
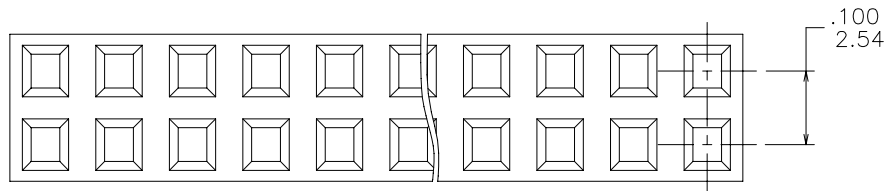


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PRODUCT NO.  
SEE TABLE

68683 - XXX - LF  
LEAD FREE OPTION  
PACKAGING OPTIONS .OMIT IF NOT REQUIRED.  
NO. OF POSITIONS PER ROW  
PLATING CODE  
BASE PART NUMBER



|             |          |     |          |                                       |             |                     |                          |                       |  |  |  |  |  |
|-------------|----------|-----|----------|---------------------------------------|-------------|---------------------|--------------------------|-----------------------|--|--|--|--|--|
| mat'l. code |          |     |          | surface                               |             | tolerance           | projection               | product family        |  |  |  |  |  |
| -           |          |     |          | ISO 1302 ✓                            |             | ISO 406<br>ISO 1101 |                          | DUBOX                 |  |  |  |  |  |
| ltr         | ecp no   | dr  | date     | tolerances unless otherwise specified |             |                     |                          | title                 |  |  |  |  |  |
| K           | V10122   | GIP | 01/08/02 | angles                                | linear      | .XX ±.01/.3         |                          | DUBOX DBL. ROW VERT.  |  |  |  |  |  |
| L           | V11677   | GIP | 01/22/02 |                                       |             | .XXX ±.005/.13      | INCH/MM                  | CARD CONNECTOR ASS'Y. |  |  |  |  |  |
| M           | V03-0309 | HTB | 04/29/03 | 0°±2'                                 |             | .XXXX ±.0020/.051   | scale 4:1                | dwg no                |  |  |  |  |  |
| N           | V05-0463 | DPU | 06/28/05 | dr                                    | J. SHREINER | 02/05/91            |                          | sheet 1 of 4 size     |  |  |  |  |  |
| P           | M06-0237 | MN  | 06/19/06 | enr                                   | M. HAHN     | 02/05/91            |                          | 68683                 |  |  |  |  |  |
| R           | M06-0433 | AGS | 10/31/06 | chr                                   | M. HAHN     | 02/05/91            |                          | A3                    |  |  |  |  |  |
| S           | M07-0203 | MHT | 5/01/07  | appd                                  | M. HAHN     | 02/05/91            |                          | type                  |  |  |  |  |  |
| sheet       | revision | S   | S        | S                                     | S           | S                   | Product Customer Drawing |                       |  |  |  |  |  |
| index       | sheet    | 1   | 2        | 3                                     | 4           |                     |                          |                       |  |  |  |  |  |

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| PRODUCT NO<br>NOTE 8 | PLATING CONTACT AREA                    | PLATING SOLDER TAIL           |             |
|----------------------|-----------------------------------------|-------------------------------|-------------|
| 68683-2XX            | 15u"/.38u Au MIN OVER 50u"/1.27u Ni MIN | 100μ"/160μ" SN<br>2.54μ/4.06μ | SEE NOTE 11 |
| 68683-3XX            | 30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN | 100μ"/160μ" SN<br>2.54μ/4.06μ | SEE NOTE 11 |
| 68683-4XX            | 100μ"/160μ" SN<br>2.54μ/4.06μ           | 100μ"/160μ" SN<br>2.54μ/4.06μ |             |
| 68683-6XX            | 30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN | 100μ"/160μ" SN<br>2.54μ/4.06μ | SEE NOTE 11 |
| 68683-8XX            | 30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN | 100μ"/160μ" SN<br>2.54μ/4.06μ | OBSOLETE    |

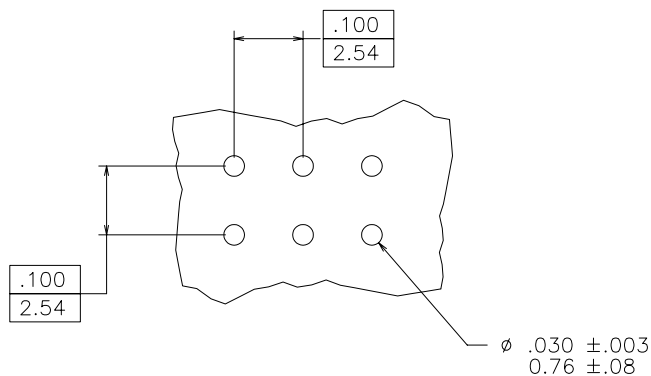


FIGURE A

NOTES:

- MATERIAL TERMINAL: PHOSPHOR BRONZE,
- RECOMMENDED APPLICATION DATA:
  - RECOMMENDED HOLE PATTERN IS SHOWN IN FIGURE A.
  - ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF GIVEN TERMINAL SPACINGS WITHIN .015/.38 DIA.
  - SUGGESTED MATING PIN LENGTH .210±.020/5.33±.51
  - RECOMMENDED PC BOARD THICKNESS: .062/1.58
- MATERIAL HOUSING P.P.S. FILLED, COLOR BLACK, FLAME RETARDANT PER UL 94V-0  
THIS PART WILL WITHSTAND EXPOSURES TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.
- FCI, FCI FINAL PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.
- PREPLATED, STAMPED TERMINALS.
- PART NUMBER WITH SUFFIX "U" IS FOR SAWING PURPOSES ONLY.
- STANDARD TUBE PACKAGE PER BUS-14-097/3.
- ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENT".
- PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

|             |                |            |                     |                                                                  |                                            |
|-------------|----------------|------------|---------------------|------------------------------------------------------------------|--------------------------------------------|
| mat'l. code |                | surface    | tolerance           | projection                                                       | product family                             |
| -           |                | ISO 1302 ✓ | ISO 406<br>ISO 1101 | ISO 1101                                                         | DUBOX                                      |
| ltr         | ecn no         | dr         | date                | tolerances unless otherwise specified                            | title                                      |
| S           |                |            |                     | angles linear .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 | DUBOX DBL. ROW VERT. CARD CONNECTOR ASS'Y. |
|             |                |            |                     | 0'±2'                                                            | scale 4:1                                  |
|             |                | dr         | J. SHREINER         | 02/05/91                                                         | dwg no                                     |
|             |                | enr        | M. HAHN             | 02/05/91                                                         | sheet 2 of 4 size                          |
|             |                | chr        | M. HAHN             | 02/05/91                                                         | 68683 A3                                   |
|             |                | appd       | M. HAHN             | 02/05/91                                                         | type Product Customer Drawing              |
| sheet index | revision sheet |            |                     |                                                                  |                                            |



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| PRODUCT NUMBER<br>↓ | NO. OF<br>POSITION | C DIM       | D DIM       | LF<br>OPTION |
|---------------------|--------------------|-------------|-------------|--------------|
| 68683-Y02           | 2 X 2              | .100/2.54   | .217/5.51   | NOTE 8       |
| ↑ -Y03              | 2 X 3              | .200/5.08   | .317/8.05   |              |
| -Y04                | 2 X 4              | .300/7.62   | .417/10.59  |              |
| -Y05                | 2 X 5              | .400/10.16  | .517/13.13  |              |
| -Y06                | 2 X 6              | .500/12.70  | .617/15.67  |              |
| -Y07                | 2 X 7              | .600/15.24  | .717/18.21  |              |
| -Y08                | 2 X 8              | .700/17.78  | .817/20.75  |              |
| -Y09                | 2 X 9              | .800/20.32  | .917/23.29  |              |
| -Y10                | 2 X 10             | .900/22.86  | 1.017/25.83 |              |
| -Y11                | 2 X 11             | 1.000/25.40 | 1.117/28.37 |              |
| -Y12                | 2 X 12             | 1.100/27.94 | 1.217/30.91 |              |
| -Y13                | 2 X 13             | 1.200/30.48 | 1.317/33.45 |              |
| -Y14                | 2 X 14             | 1.300/33.02 | 1.417/35.99 |              |
| -Y15                | 2 X 15             | 1.400/35.56 | 1.517/38.53 |              |
| -Y16                | 2 X 16             | 1.500/38.10 | 1.617/41.07 |              |
| -Y17                | 2 X 17             | 1.600/40.64 | 1.717/43.61 |              |
| -Y18                | 2 X 18             | 1.700/43.18 | 1.817/46.15 |              |
| -Y19                | 2 X 19             | 1.800/45.72 | 1.917/48.69 |              |
| -Y20                | 2 X 20             | 1.900/48.26 | 2.017/51.23 |              |
| -Y21                | 2 X 21             | 2.000/50.80 | 2.117/53.77 |              |
| -Y22                | 2 X 22             | 2.100/53.34 | 2.217/56.31 |              |
| -Y23                | 2 X 23             | 2.200/55.88 | 2.317/58.85 |              |
| -Y24                | 2 X 24             | 2.300/58.42 | 2.417/61.39 |              |
| 68683-Y25           | 2 X 25             | 2.400/60.96 | 2.517/63.93 |              |

|                  |                   |    |    |                       |                                       |                                                    |                               |
|------------------|-------------------|----|----|-----------------------|---------------------------------------|----------------------------------------------------|-------------------------------|
| mat'l. code<br>- |                   |    |    | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101      | projection<br>                                     | product family<br>DUBOX       |
| ltr              | ecn               | no | dr | date                  | tolerances unless otherwise specified |                                                    | title                         |
| S                |                   |    |    |                       | angles                                | linear                                             | DUBOX DBL. ROW VERT.          |
|                  |                   |    |    |                       | 0'±2'                                 | .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 | CARD CONNECTOR ASS'Y.         |
|                  |                   |    |    |                       | dr                                    | J. SHREINER 02/05/91                               | dwg no                        |
|                  |                   |    |    |                       | enr                                   | M. HAHN 02/05/91                                   | sheet 3 of 4 size             |
|                  |                   |    |    |                       | chr                                   | M. HAHN 02/05/91                                   | 68683 A3                      |
|                  |                   |    |    |                       | appd                                  | M. HAHN 02/05/91                                   | type Product Customer Drawing |
| sheet<br>index   | revision<br>sheet |    |    |                       |                                       |                                                    |                               |

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| PRODUCT NUMBER<br>↓ | NO. OF POSITION<br>↓ | C DIM        | D DIM        | LF OPTION  |
|---------------------|----------------------|--------------|--------------|------------|
| 68683-Y26           | 2 X 26               | 2.500/63.50  | 2.617/66.47  | NOTE 8     |
| -Y27                | 2 X 27               | 2.600/66.04  | 2.717/69.01  |            |
| -Y28                | 2 X 28               | 2.700/68.58  | 2.817/71.55  |            |
| -Y29                | 2 X 29               | 2.800/71.12  | 2.917/74.09  |            |
| -Y30                | 2 X 30               | 2.900/73.66  | 3.017/76.63  |            |
| -Y31                | 2 X 31               | 3.000/76.20  | 3.117/79.17  |            |
| -Y32                | 2 X 32               | 3.100/78.74  | 3.217/81.71  |            |
| -Y33                | 2 X 33               | 3.200/81.28  | 3.317/84.25  |            |
| -Y34                | 2 X 34               | 3.300/83.82  | 3.417/86.79  |            |
| -Y35                | 2 X 35               | 3.400/86.36  | 3.517/89.33  |            |
| -Y36                | 2 X 36               | 3.500/88.90  | 3.617/91.87  |            |
| -Y37                | 2 X 37               | 3.600/91.44  | 3.717/94.41  |            |
| -Y38                | 2 X 38               | 3.700/93.98  | 3.817/96.95  |            |
| -Y39                | 2 X 39               | 3.800/96.52  | 3.917/99.49  |            |
| -Y40                | 2 X 40               | 3.900/99.06  | 4.017/102.03 |            |
| -Y41                | 2 X 41               | 4.000/101.60 | 4.117/104.57 |            |
| -Y42                | 2 X 42               | 4.100/104.14 | 4.217/107.11 |            |
| -Y43                | 2 X 43               | 4.200/106.68 | 4.317/109.65 |            |
| -Y44                | 2 X 44               | 4.300/109.22 | 4.417/112.19 |            |
| -Y45                | 2 X 45               | 4.400/111.76 | 4.517/114.73 |            |
| -Y46                | 2 X 46               | 4.500/114.30 | 4.617/117.27 |            |
| -Y47                | 2 X 47               | 4.600/116.84 | 4.717/119.81 |            |
| -Y48                | 2 X 48               | 4.700/119.38 | 4.817/122.35 |            |
| -Y49                | 2 X 49               | 4.800/121.92 | 4.917/124.89 |            |
| 68683-Y50           | 2 X 50               | 4.900/124.46 | 5.017/127.43 | SEE NOTE 6 |
| 68683-Y50U          | 2 X 50               | 4.900/124.46 | 5.017/127.43 |            |

|                  |                |    |    |                       |                                                                  |                |                                               |
|------------------|----------------|----|----|-----------------------|------------------------------------------------------------------|----------------|-----------------------------------------------|
| mat'l. code<br>- |                |    |    | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101                                 | projection<br> | product family<br>DUBOX                       |
| ltr              | ecn            | no | dr | date                  | tolerances unless otherwise specified                            |                | title                                         |
| S                |                |    |    |                       | angles linear .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 |                | DUBOX DBL. ROW VERT.<br>CARD CONNECTOR ASS'Y. |
|                  |                |    |    |                       | 0'±2'                                                            | scale 4:1      | dwg no sheet 4 of 4 size                      |
|                  |                |    |    | dr                    | J. SHREINER                                                      | 02/05/91       | 68683 A3                                      |
|                  |                |    |    | enr                   | M. HAHN                                                          | 02/05/91       |                                               |
|                  |                |    |    | chr                   | M. HAHN                                                          | 02/05/91       |                                               |
|                  |                |    |    | appd                  | M. HAHN                                                          | 02/05/91       |                                               |
| sheet index      | revision sheet |    |    |                       |                                                                  |                | type Product Customer Drawing                 |

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