

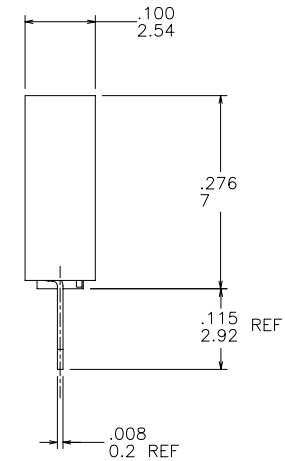
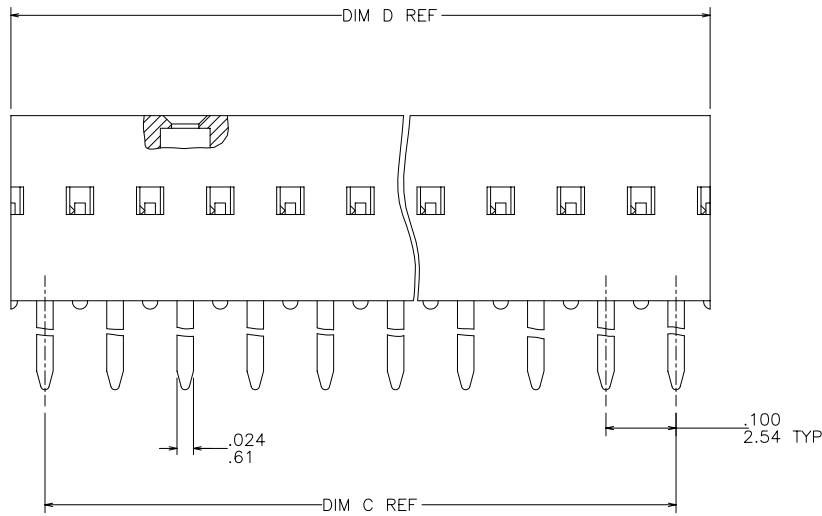
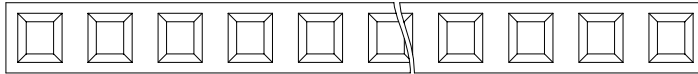


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PRODUCT NO.  
SEE TABLE

68685 - 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<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                   |  |                                                                                                                                                                                                        |  |  |  |  |  |
| N           | V11678   | GIP | 01/22/02 | angles<br>linear                      |         |                                  |  |                                                                                                     |  | INCH/MM                 |  | DUBOX SING. ROW VERT.<br>CARD CONN. ASSEMBLY                                                                                                                                                           |  |  |  |  |  |
| P           | V03-0309 | HTB | 04/30/03 |                                       |         | .XX ±.01/.3                      |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| R           | V04-0002 | HTB | 01/06/04 |                                       |         | .XXX ±.005/.13                   |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
|             |          |     |          | 0'±2'                                 |         | .XXXX ±.0020/.051                |  |                                                                                                     |  | scale 4:1               |  | <div><div>dwg no<br/>sheet 1 of 3 size<br/>68685<br/>A3</div><div>type   Product   Customer   Drawing</div></div> |  |  |  |  |  |
| S           | V05-0463 | DPU | 06/27/05 | dr                                    | S. RAMP | 02/25/91                         |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| T           | M06-0237 | MN  | 06/19/06 | enr                                   | M. HAHN | 02/25/91                         |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| U           | M06-0433 | AGS | 10/31/06 | chr                                   | M. HAHN | 02/25/91                         |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| V           | M07-0203 | MHT | 5/01/07  | appd                                  | M. HAHN | 02/25/91                         |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| sheet       | revision | V   | V        | V                                     |         |                                  |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
| index       | sheet    | 1   | 2        | 3                                     |         |                                  |  |                                                                                                     |  |                         |  |                                                                                                                                                                                                        |  |  |  |  |  |
|             |          |     |          | 4                                     |         |                                  |  |                                                                                                     |  | 5                       |  | 6                                                                                                                                                                                                      |  |  |  |  |  |

form: A3

| PRODUCT NO<br>NOTE 8 | PLATING CONTACT AREA MIN         | PLATING<br>SOLDER TAIL        |             |
|----------------------|----------------------------------|-------------------------------|-------------|
| 68685-2XX            | 15u"/.38u Au OVER 50u"/1.27uNI   | 100u"/160u" SN<br>2.54u/4.06u | SEE NOTE 11 |
| 68685-3XX            | 30u"/.76u Au OVER 50u"/1.27u NI  | 100u"/160u" SN<br>2.54u/4.06u | SEE NOTE 11 |
| 68685-4XX            | 100u"/160u" SN<br>2.54u/4.06u    | 100u"/160u" SN<br>2.54u/4.06u |             |
| 68685-5XX            | 50u"/1.27u Au OVER 50u"/1.27u NI | 100u"/160u" SN<br>2.54u/4.06u | OBSOLETE    |
| 68685-6XX            | 30u"/.76u Au OVER 50u"/1.27u NI  | 100u"/160u" SN<br>2.54u/4.06u |             |
| 68685-8XX            | 30u"/.76u Au OVER 50u"/1.27u NI  | 100u"/160u" SN<br>2.54u/4.06u | OBSOLETE    |

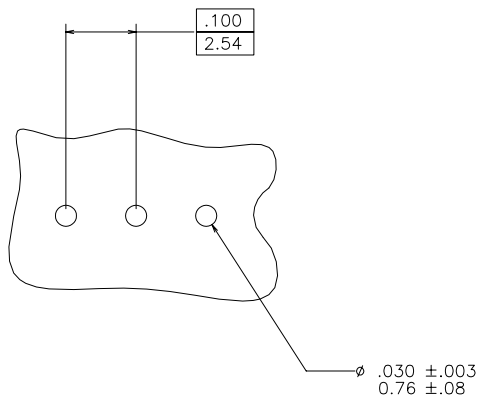


FIGURE A

NOTES:

- ① MATERIAL HOUSING: PPS, 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.
2. MATERIAL TERMINAL: PHOSPHOR BRONZE.
3. RECOMMENDED APPLICATION DATA:
  - A. RECOMMENDED HOLE PATTERN IS SHOWN IN FIGURE A.
  - B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF GIVEN TERMINAL SPACINGS WITHIN .015/.38 DIA
  - C. SUGGESTED MATING PIN LENGTH .210±.020/5.33±.51
  - D. RECOMMENDED PC BOARD THICKNESS: .062/1.58
4. FCI, FCI FINAL PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.
5. PREPLATED STAMPED TERMINALS.
6. STANDARD TUBE PACKAGE PER BUS-14-097/3.
- ⑦ PART NUMBER WITH SUFFIX "U" FOR SAWING ONLY.
- ⑧. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
9. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- 10."THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENT".
- ⑪ PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

|             |  |  |  |                       |  |                                  |  |                       |  |                                       |  |                                              |  |
|-------------|--|--|--|-----------------------|--|----------------------------------|--|-----------------------|--|---------------------------------------|--|----------------------------------------------|--|
| mat'l. code |  |  |  | surface<br>ISO 1302 ✓ |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br>INCH/MM |  | product family<br>DUBOX               |  |                                              |  |
| ltr         |  |  |  | ecn no                |  | dr                               |  | date                  |  | tolerances unless otherwise specified |  | title                                        |  |
| V           |  |  |  |                       |  |                                  |  |                       |  | linear .XX ±.01/.3                    |  | DUBOX SING. ROW VERT.<br>CARD CONN. ASSEMBLY |  |
|             |  |  |  |                       |  |                                  |  |                       |  | linear .XXX ±.005/.13                 |  | scale 4:1                                    |  |
|             |  |  |  |                       |  |                                  |  |                       |  | linear .XXXX ±.0020/.051              |  | sheet 2 of 3 size                            |  |
|             |  |  |  |                       |  |                                  |  |                       |  |                                       |  | A3                                           |  |
|             |  |  |  |                       |  |                                  |  |                       |  |                                       |  | type Product Customer Drawing                |  |
| sheet index |  |  |  | revision sheet        |  |                                  |  |                       |  |                                       |  |                                              |  |



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form: A3

| PRODUCT NUMBER | NO. OF POSITION | DIM C       | DIM D       | LF OPTION |
|----------------|-----------------|-------------|-------------|-----------|
| 68685-Y02      | 1 X 2           | .100/2.54   | .217/5.51   | NOTE 8    |
| -Y03           | 1 X 3           | .200/5.08   | .317/8.05   |           |
| -Y04           | 1 X 4           | .300/7.62   | .417/10.59  |           |
| -Y05           | 1 X 5           | .400/10.16  | .517/13.13  |           |
| -Y06           | 1 X 6           | .500/12.70  | .617/15.67  |           |
| -Y07           | 1 X 7           | .600/15.24  | .717/18.21  |           |
| -Y08           | 1 X 8           | .700/17.78  | .817/20.75  |           |
| -Y09           | 1 X 9           | .800/20.32  | .917/23.29  |           |
| -Y10           | 1 X 10          | .900/22.86  | 1.017/25.83 |           |
| -Y11           | 1 X 11          | 1.000/25.40 | 1.117/28.37 |           |
| -Y12           | 1 X 12          | 1.100/27.94 | 1.217/30.91 |           |
| -Y13           | 1 X 13          | 1.200/30.48 | 1.317/33.45 |           |
| -Y14           | 1 X 14          | 1.300/33.02 | 1.417/35.99 |           |
| -Y15           | 1 X 15          | 1.400/35.56 | 1.517/38.53 |           |
| -Y16           | 1 X 16          | 1.500/38.10 | 1.617/41.07 |           |
| -Y17           | 1 X 17          | 1.600/40.64 | 1.717/43.61 |           |
| -Y18           | 1 X 18          | 1.700/43.18 | 1.817/46.15 |           |
| -Y19           | 1 X 19          | 1.800/45.72 | 1.917/48.69 |           |
| -Y20           | 1 X 20          | 1.900/48.26 | 2.017/51.23 |           |
| -Y21           | 1 X 21          | 2.000/50.80 | 2.117/53.77 |           |
| -Y22           | 1 X 22          | 2.100/53.34 | 2.217/56.31 |           |
| -Y23           | 1 X 23          | 2.200/55.88 | 2.317/58.85 |           |
| -Y24           | 1 X 24          | 2.300/58.42 | 2.417/61.39 |           |
| -Y25           | 1 X 25          | 2.400/60.96 | 2.517/63.93 |           |
| -Y26           | 1 X 26          | 2.500/63.50 | 2.617/66.47 |           |
| -Y27           | 1 X 27          | 2.600/66.04 | 2.717/69.01 |           |
| -Y28           | 1 X 28          | 2.700/68.58 | 2.817/71.55 |           |
| -Y29           | 1 X 29          | 2.800/71.12 | 2.917/74.09 |           |
| -Y30           | 1 X 30          | 2.900/73.66 | 3.017/76.63 |           |
| -Y31           | 1 X 31          | 3.000/76.20 | 3.117/79.17 |           |
| -Y32           | 1 X 32          | 3.100/78.74 | 3.217/81.71 |           |
| -Y33           | 1 X 33          | 3.200/81.28 | 3.317/84.25 |           |
| -Y34           | 1 X 34          | 3.300/83.82 | 3.417/86.79 |           |
| 68685-Y35      | 1 X 35          | 3.400/86.36 | 3.517/89.33 |           |

| PRODUCT NO | NO. OF POSITION | DIM C        | DIM D        | LF OPTION |
|------------|-----------------|--------------|--------------|-----------|
| 68685-Y36  | 1 X 36          | 3.500/88.90  | 3.617/91.87  | NOTE 8    |
| -Y37       | 1 X 37          | 3.600/91.44  | 3.717/94.41  |           |
| -Y38       | 1 X 38          | 3.700/93.98  | 3.817/96.95  |           |
| -Y39       | 1 X 39          | 3.800/96.52  | 3.917/99.49  |           |
| -Y40       | 1 X 40          | 3.900/99.06  | 4.017/102.03 |           |
| -Y41       | 1 X 41          | 4.000/101.60 | 4.117/104.57 |           |
| -Y42       | 1 X 42          | 4.100/104.14 | 4.217/107.11 |           |
| -Y43       | 1 X 43          | 4.200/106.68 | 4.317/109.65 |           |
| -Y44       | 1 X 44          | 4.300/109.22 | 4.417/112.19 |           |
| -Y45       | 1 X 45          | 4.400/111.76 | 4.517/114.73 |           |
| -Y46       | 1 X 46          | 4.500/114.30 | 4.617/117.27 |           |
| -Y47       | 1 X 47          | 4.600/116.84 | 4.717/119.81 |           |
| -Y48       | 1 X 48          | 4.700/119.38 | 4.817/122.35 |           |
| -Y49       | 1 X 49          | 4.800/121.92 | 4.917/124.89 |           |
| 68685-Y50  | 1 X 50          | 4.900/124.46 | 5.017/127.43 |           |
| 68685-Y50U | 1 X 50          | 4.900/124.46 | 5.017/127.43 |           |

NOTE 7

|             |                |    |      |                                                         |                                  |                      |                                              |
|-------------|----------------|----|------|---------------------------------------------------------|----------------------------------|----------------------|----------------------------------------------|
| mat'l. code |                |    |      | surface<br>ISO 1302 <input checked="" type="checkbox"/> | tolerance<br>ISO 406<br>ISO 1101 | projection<br>       | product family<br>DUBOX                      |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified                   |                                  | INCH/MM<br>scale 4:1 | title                                        |
| V           |                |    |      | angles                                                  | linear                           |                      | DUBOX SING. ROW VERT.<br>CARD CONN. ASSEMBLY |
|             |                |    |      | 0°±2'                                                   |                                  |                      |                                              |
|             |                |    |      | dr                                                      | S. RAMP                          | 02/25/91             | dwg no                                       |
|             |                |    |      | enr                                                     | M. HAHN                          | 02/25/91             | sheet 3 of 3 size                            |
|             |                |    |      | chr                                                     | M. HAHN                          | 02/25/91             | 68685 A3                                     |
|             |                |    |      | appd                                                    | M. HAHN                          | 02/25/91             | type Product Customer Drawing                |
| sheet index | revision sheet |    |      |                                                         |                                  |                      |                                              |