

PRODUCT NUMBER

SEE TABLE

68046 - XXX - LF

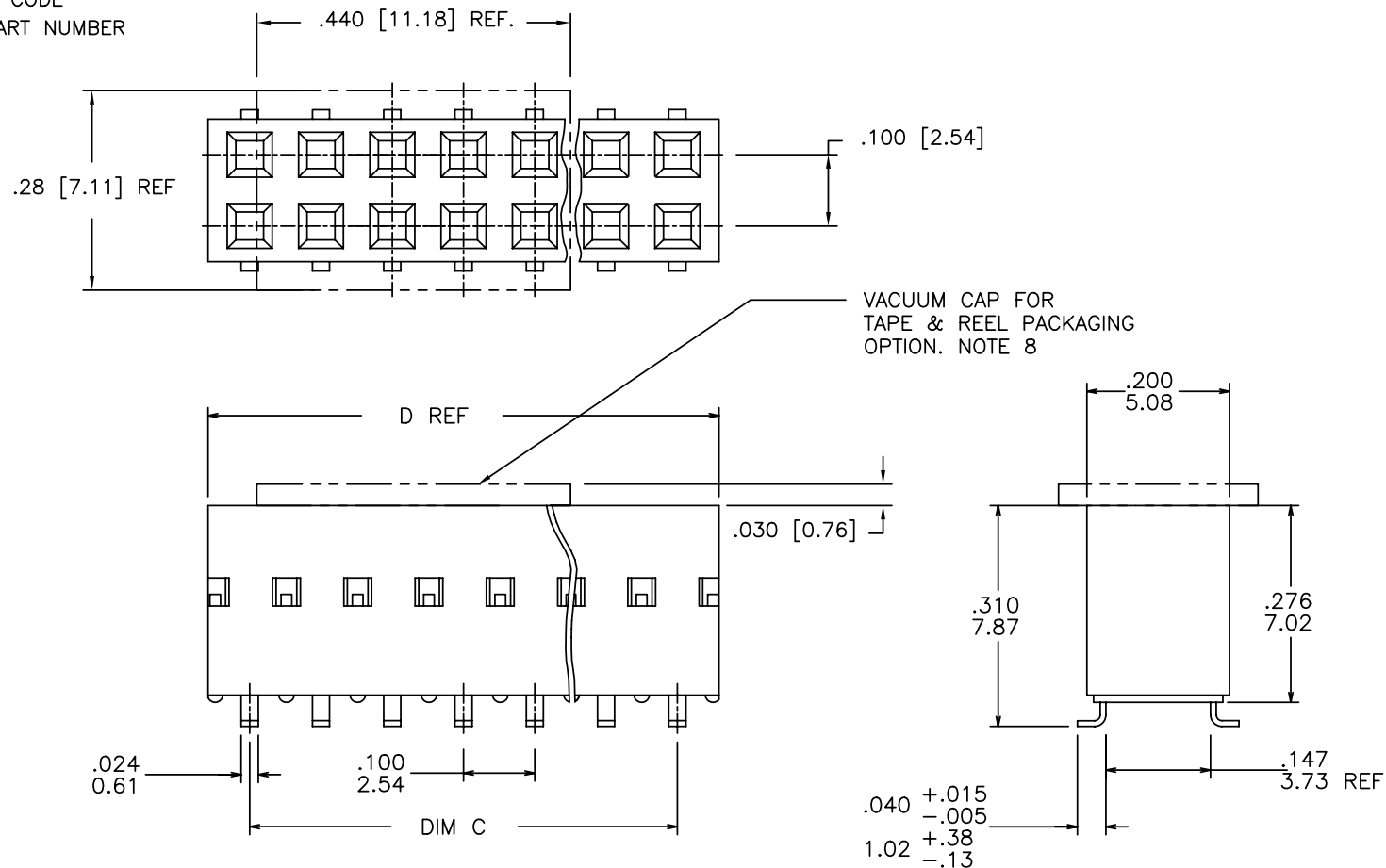
LEAD FREE OPTION

PACKAGING OPTION NOTE 6. 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         |  | ecn nodr |  | date       |  | tolerances unless otherwise specified |  |                                                                                                               |  |                                |  | title    |  |
| AV          |  | N-005264 |  | SH         |  | 2011-8-25                             |  | <br>INCH/MM<br>scale 1:1 |  | SMT DOUBLE ROW<br>VCC ASSEMBLY |  |          |  |
| AN          |  | V04-0986 |  | DAI        |  | 10/13/04                              |  |                                                                                                               |  |                                |  |          |  |
| AP          |  | V04-1003 |  | DAI        |  | 10/25/04                              |  |                                                                                                               |  |                                |  |          |  |
| AR          |  | V05-0463 |  | DPU        |  | 06/28/05                              |  |                                                                                                               |  |                                |  |          |  |
| AS          |  | M07-0143 |  | ERE        |  | 03/03/07                              |  | engr                                                                                                          |  | M. HAHN                        |  | 11/07/90 |  |
| AT          |  | M07-0203 |  | AGS        |  | 5/02/07                               |  | chr                                                                                                           |  | M. HAHN                        |  | 11/07/90 |  |
| AU          |  | M08-0065 |  | MHT        |  | 3/04/05                               |  | appd                                                                                                          |  | M. HAHN                        |  | 11/07/90 |  |
| sheet       |  | revision |  | AV         |  | AV                                    |  | AV                                                                                                            |  | AV                             |  | AV       |  |
| index       |  | sheet    |  | 1          |  | 2                                     |  | 3                                                                                                             |  | 4                              |  | 5        |  |

PDS: Rev :AV

STATUS: Released

Printed: Aug 24, 2011

| PRODUCT NUMBER<br>NOTE 15 | PLATING CONTACT AREA                           | PLATING<br>SOLDER TAIL          | MATERIAL<br>REF |
|---------------------------|------------------------------------------------|---------------------------------|-----------------|
| 68046-2XX                 | 15μ"/.38μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN | 100μ"/160μ"<br>2.54μ"/4.06μ" SN | NOTE 3&4        |
| 68046-3XX                 | 30μ"/.76μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN | 100μ"/160μ"<br>2.54μ"/4.06μ" SN | NOTE 3&4        |
| 68046-4XX                 | 100μ"/2.54 SN MIN OVER 50μ"/1.27μ Ni MIN       | 100μ"/160μ"<br>2.54μ"/4.06μ" SN | NOTE 3,4&17     |
| 68046-6XX                 | 30μ"/.76μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN | 100μ"/160μ"<br>2.54μ"/4.06μ" SN | NOTE 3&4        |
| 68046-8XX                 | 30μ"/.76μ Au MIN OVER 50μ"/1.27μ Ni MIN        | 200μ"/5.08μ SL MIN              | NOTE 3&4        |

OBSOLETE

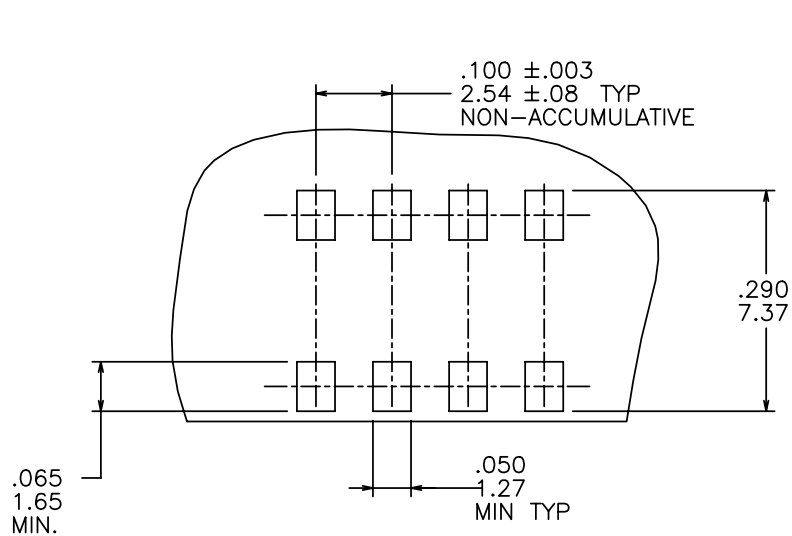


FIGURE A  
TOP ENTRY  
.025/.64 SQ PIN

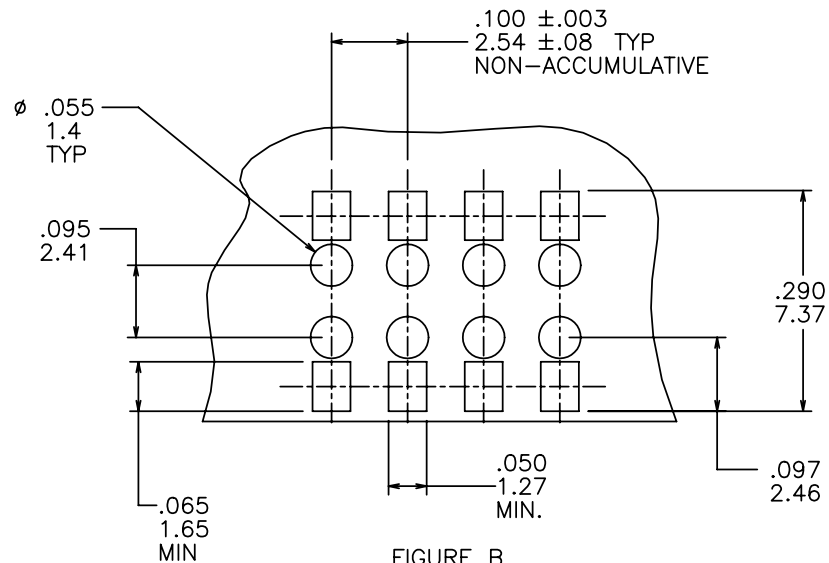
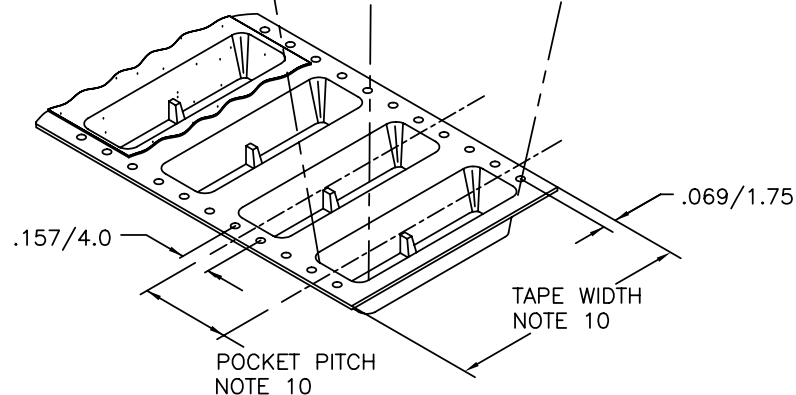


FIGURE B  
BOTTOM ENTRY (THROUGH PWB)  
.025/.64 SQ PIN

|                  |  |                                       |  |                                                                |  |                                |  |                         |  |
|------------------|--|---------------------------------------|--|----------------------------------------------------------------|--|--------------------------------|--|-------------------------|--|
| mat'l. code      |  | surface<br>ISO 1302 ✓                 |  | tolerance<br>ISO 406<br>ISO 1101                               |  | projection<br>INCH/MM          |  | product family<br>DUBOX |  |
| l'tecn nodr date |  | tolerances unless otherwise specified |  | title                                                          |  | SMT DOUBLE ROW<br>VCC ASSEMBLY |  | dwg no                  |  |
| AV               |  | angles<br>0°±2°                       |  | linea<br>XX±.01/XX±.3<br>XXX±.005/XX±.13<br>XXXX±.0020/XXX±.05 |  | scale 1:1                      |  | sheet 2 of 5            |  |
| dr J. SHREINER   |  | 11/07/90                              |  | engr M. HAHN                                                   |  | 11/07/90                       |  | 68046                   |  |
| chr M. HAHN      |  | 11/07/90                              |  | appd M. HAHN                                                   |  | 11/07/90                       |  | A3                      |  |
| sheet index      |  | revision sheet                        |  | type                                                           |  | Product Customer Drawing       |  | size                    |  |

VACUUM PICK-UP CAP  
CENTRALLY LOCATED

DUBOX VERTICAL RECEPTACLE  
DOUBLE ROW



## TAPE AND REEL PACKAGING

SEE NOTE 7

### NOTES:

- ①. TERMINAL MATERIAL: PHOSPHOR BRONZE.  
EXTRA HARD
2. RECOMMENDED APPLICATION DATA:
  - A. RECOMMENDED SOLDER PAD PATTERN IS SHOWN IN FIGURE A & B.
  - B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF  
ON GIVEN TERMINAL SPACING WITHIN .015/.38 DIA.
  - C. SUGGESTED MATING PIN LENGTH .210±.010 [5.33±.51]
- ③. HOUSING MATERIAL: P.P.S. FILLED.  
FLAME RETARDANT PER UL-94-V0.  
COMPATIBLE WITH INFRA-RED SOLDERING.  
COLOR: BLACK  
PART WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE  
FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR  
VAPOR PHASE SOLDER PROCESS.
- ④. PRESTAMPED POST PLATED TERMINAL.
5. FCI, FCI FINAL PART NUMBER AND DATE CODE  
TO BE MARKED ON TUBE LABEL.
6. ADD SUFFIX 'P' TO DASH NUMBER AS FOURTH DIGIT FOR TAPE & REEL  
PACKAGING.
- ⑦. TAPE AND REEL PACKAGING PER GES-14-334.
- ⑧. VACUUM CAP MATERIAL: L.C.P., FLAME RETARDANT UL 94 V-0.  
COLOR : BLACK  
CAP IS USED WITH TAPE AND REEL PACKAGING.  
CAP IS TO BE CENTRALLY LOCATED ON PART.
9. TAPE AND REEL PACKAGING FOR 24mm WIDE AND BELOW HAVE PILOT HOLES ON  
ONE SIDE OF TAPE ONLY. SIZES ABOVE 24mm HAVE PILOT HOLES ON BOTH  
OF TAPE.
- ⑩. TAPE & REEL PACKAGING 24mm AND 32mm TAPE WIDTH, WITH 112mm POCKET  
PITCH.
11. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS 2.50  
LONG /63.5mm
- ⑫. PART NUMBER WITH SUFFIX "U" IS FOR SAWING PURPOSES ONLY.
13. STANDARD TUBE PACKAGE PER BUS-14-097/3.
- ⑭. TAPE & REEL PACKAGING 72mm TAPE WIDTH WITH 16mm POCKET PITCH.
- ⑮. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION
16. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER  
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- ⑰. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND  
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT  
ENVIRONMENTS".

|                   |                                       |                                  |                       |                                         |
|-------------------|---------------------------------------|----------------------------------|-----------------------|-----------------------------------------|
| mat'l. code       | surface<br>ISO 1302 ✓                 | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>DUBOX                 |
| ltr ecn nodr date | tolerances unless otherwise specified | angles<br>linea                  | scale 1:1             | title<br>SMT DOUBLE ROW<br>VCC ASSEMBLY |
| AV                |                                       | 0°±2°                            |                       | dwg no<br>68046                         |
|                   | dr J. SHREINER 11/07/90               | engr M. HAHN 11/07/90            | chr M. HAHN 11/07/90  | sheet 3 of 5 size A3                    |
|                   | appd M. HAHN 11/07/90                 |                                  |                       | type Product Customer Drawing           |
| sheet index       | revision sheet                        |                                  |                       |                                         |

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| PRODUCT NUMBER | NO. OF POS. | C DIM        | D DIM        | TAPE & REEL PACKAGING | LF OPTION |
|----------------|-------------|--------------|--------------|-----------------------|-----------|
| 68046-Y02      | 2 X 2       | .100/2.540   | .217/5.511   | NO                    | NOTE 15   |
| -Y03           | 2 X 3       | .200/5.080   | .317/8.051   | NO                    |           |
| -Y04           | 2 X 4       | .300/7.620   | .417/10.591  | NO                    |           |
| -Y05           | 2 X 5       | .400/10.160  | .517/13.131  | NO                    |           |
| -Y06           | 2 X 6       | .500/12.700  | .617/15.671  | NO                    |           |
| -Y07           | 2 X 7       | .600/15.240  | .717/18.211  | NO                    |           |
| -Y08           | 2 X 8       | .700/17.780  | .817/20.751  | NO                    |           |
| -Y09           | 2 X 9       | .800/20.320  | .917/23.291  | NO                    |           |
| -Y10           | 2 X 10      | .900/22.860  | 1.017/25.831 | NO                    |           |
| -Y11           | 2 X 11      | 1.000/25.400 | 1.117/28.371 | NO                    |           |
| -Y12           | 2 X 12      | 1.100/27.940 | 1.217/30.911 | NO                    |           |
| -Y13           | 2 X 13      | 1.200/30.480 | 1.317/33.451 | NO                    |           |
| -Y14           | 2 X 14      | 1.300/33.020 | 1.417/35.991 | NO                    |           |
| -Y15           | 2 X 15      | 1.400/35.560 | 1.517/38.531 | NO                    |           |
| -Y16           | 2 X 16      | 1.500/38.100 | 1.617/41.071 | NO                    |           |
| -Y17           | 2 X 17      | 1.600/40.640 | 1.717/43.611 | NO                    |           |
| -Y18           | 2 X 18      | 1.700/43.180 | 1.817/46.151 | NO                    |           |
| -Y19           | 2 X 19      | 1.800/45.720 | 1.917/48.691 | NO                    |           |
| -Y20           | 2 X 20      | 1.900/48.260 | 2.017/51.231 | NO                    |           |
| -Y21           | 2 X 21      | 2.000/50.800 | 2.117/53.771 | NO                    |           |
| -Y22           | 2 X 22      | 2.100/53.340 | 2.217/56.311 | NO                    |           |
| -Y23           | 2 X 23      | 2.200/55.880 | 2.317/58.851 | NO                    |           |
| -Y24           | 2 X 24      | 2.300/58.420 | 2.417/61.391 | NO                    |           |
| 68046-Y25      | 2 X 25      | 2.400/60.960 | 2.517/63.931 | NO                    |           |

mat'l. code

surface  
ISO 1302 ✓

tolerance  
ISO 406  
ISO 1101

projection  


product family  
DUBOX

title  
SMT DOUBLE ROW  
VCC ASSEMBLY

type  
Product Customer Drawing

sheet index

revision sheet

sheet

revision

date

tolerances unless otherwise specified

angles

line

0°±2'

dr J. SHREINER 11/07/90

engr M. HAHN 11/07/90

chr M. HAHN 11/07/90

appd M. HAHN 11/07/90

scale 1:1

dwg no 68046

sheet # of 5 1

size A3

Form A3

1

2

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4

5

6

PDS: Rev :AV

STATUS: Released

Printed: Aug 24, 2011

| PROD. NUMBER | NO. POSI. | C DIM         | D DIM         | TAPE & REEL PACKAGING | LF<br>OPTION |
|--------------|-----------|---------------|---------------|-----------------------|--------------|
| 68046-Y26    | 2 X 26    | 2.500/63.500  | 2.617/66.471  | NO                    | NOTE 15      |
| ↑ -Y27       | 2 X 27    | 2.600/66.040  | 2.717/69.011  | NO                    |              |
| -Y28         | 2 X 28    | 2.700/68.580  | 2.817/71.551  | NO                    |              |
| -Y29         | 2 X 29    | 2.800/71.120  | 2.917/74.091  | NO                    |              |
| -Y30         | 2 X 30    | 2.900/73.660  | 3.017/76.631  | NO                    |              |
| -Y31         | 2 X 31    | 3.000/76.200  | 3.117/79.171  | NO                    |              |
| -Y32         | 2 X 32    | 3.100/78.740  | 3.217/81.711  | NO                    |              |
| -Y33         | 2 X 33    | 3.200/81.280  | 3.317/84.251  | NO                    |              |
| -Y34         | 2 X 34    | 3.300/83.820  | 3.417/86.791  | NO                    |              |
| -Y35         | 2 X 35    | 3.400/86.360  | 3.517/89.331  | NO                    |              |
| -Y36         | 2 X 36    | 3.500/88.900  | 3.617/91.871  | NO                    |              |
| -Y37         | 2 X 37    | 3.600/91.440  | 3.717/94.411  | NO                    |              |
| -Y38         | 2 X 38    | 3.700/93.980  | 3.817/96.951  | NO                    |              |
| -Y39         | 2 X 39    | 3.800/96.520  | 3.917/99.491  | NO                    |              |
| -Y40         | 2 X 40    | 3.900/99.060  | 4.017/102.031 | NO                    |              |
| -Y41         | 2 X 41    | 4.000/101.600 | 4.117/104.571 | NO                    |              |
| -Y42         | 2 X 42    | 4.100/104.140 | 4.217/107.111 | NO                    |              |
| -Y43         | 2 X 43    | 4.200/106.680 | 4.317/109.651 | NO                    |              |
| -Y44         | 2 X 44    | 4.300/109.220 | 4.417/112.191 | NO                    |              |
| -Y45         | 2 X 45    | 4.400/111.760 | 4.517/114.731 | NO                    |              |
| -Y46         | 2 X 46    | 4.500/114.300 | 4.617/117.271 | NO                    |              |
| -Y47         | 2 X 47    | 4.600/116.840 | 4.717/119.811 | NO                    |              |
| -Y48         | 2 X 48    | 4.700/119.380 | 4.817/122.351 | NO                    |              |
| -Y49         | 2 X 49    | 4.800/121.920 | 4.917/124.891 | NO                    |              |
| -Y50         | 2 X 50    | 4.900/124.460 | 5.017/127.431 | NO                    |              |
| -Y50U        | 2 X 50    | 4.900/124.460 | 5.017/127.431 | NO                    |              |
| -Y03P        | 2 X 3     | 0.200/5.080   | 0.317/8.051   | YES                   |              |
| -Y04P        | 2 X 4     | 0.300/7.620   | 0.417/10.592  | YES                   |              |
| ↓ -Y05P      | 2 X 5     | 0.400/10.160  | 0.517/13.131  | YES                   |              |
| 68046-Y06P   | 2 X 6     | 0.500/12.700  | 0.617/15.671  | YES                   |              |
| 68046-Y07P   | 2 X 7     | 0.600/15.240  | 0.717/18.211  | YES                   |              |
| 68046-Y12P   | 2 X 12    | 1.100/27.94   | 1.217/30.91   | YES                   |              |
| 68046-Y13P   | 2 X 13    | 1.200/30.48   | 1.317/33.45   | YES                   |              |
| 68046-Y20P   | 2 X 20    | 1.900/48.260  | 2.017/51.231  | YES                   |              |

|                           |                     |
|---------------------------|---------------------|
| NOTE 12                   |                     |
| NOTE 6 & 9                |                     |
| NOTE 6 & 10               |                     |
| NOTE 6 & 10               |                     |
| NOTE 6 & 10               |                     |
| <del>NOTE 6 &amp; 9</del> | <del>OBSOLETE</del> |
| NOTE 6 & 14               |                     |
| NOTE 6 & 14               |                     |

|                   |  |          |  |                                       |  |                                  |  |                                                                                                     |  |                                                                                       |  |                          |  |      |  |
|-------------------|--|----------|--|---------------------------------------|--|----------------------------------|--|-----------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------------------|--|------|--|
| mat'l. code       |  |          |  | surface<br>ISO 1302 ✓                 |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>DUBOX                                                               |  |                          |  |      |  |
| ltr ecn nodr date |  |          |  | tolerances unless otherwise specified |  |                                  |  |                                                                                                     |  | title                                                                                 |  |                          |  |      |  |
| AV                |  |          |  | angles                                |  | linea                            |  | INCH/MM                                                                                             |  | SMT DOUBLE ROW<br>VCC ASSEMBLY                                                        |  |                          |  |      |  |
|                   |  |          |  |                                       |  |                                  |  |                                                                                                     |  |                                                                                       |  |                          |  |      |  |
|                   |  |          |  | 0°±2'                                 |  |                                  |  | scale 1:1                                                                                           |  |                                                                                       |  |                          |  |      |  |
|                   |  |          |  |                                       |  |                                  |  |                                                                                                     |  |                                                                                       |  |                          |  |      |  |
|                   |  |          |  | dr                                    |  | J. SHREINER                      |  | 11/07/90                                                                                            |  | dwg no                                                                                |  | sheet 5 of 5             |  | size |  |
|                   |  |          |  | engr                                  |  | M. HAHN                          |  | 11/07/90                                                                                            |  |  |  | 68046                    |  | A3   |  |
|                   |  |          |  | chr                                   |  | M. HAHN                          |  | 11/07/90                                                                                            |  |                                                                                       |  |                          |  |      |  |
|                   |  |          |  | appd                                  |  | M. HAHN                          |  | 11/07/90                                                                                            |  | type                                                                                  |  | Product Customer Drawing |  |      |  |
| sheet             |  | revision |  |                                       |  |                                  |  |                                                                                                     |  |                                                                                       |  |                          |  |      |  |
| index             |  | sheet    |  |                                       |  |                                  |  |                                                                                                     |  |                                                                                       |  |                          |  |      |  |