

PRODUCT NUMBER

SEE TABLE

68046 - XXX - LF

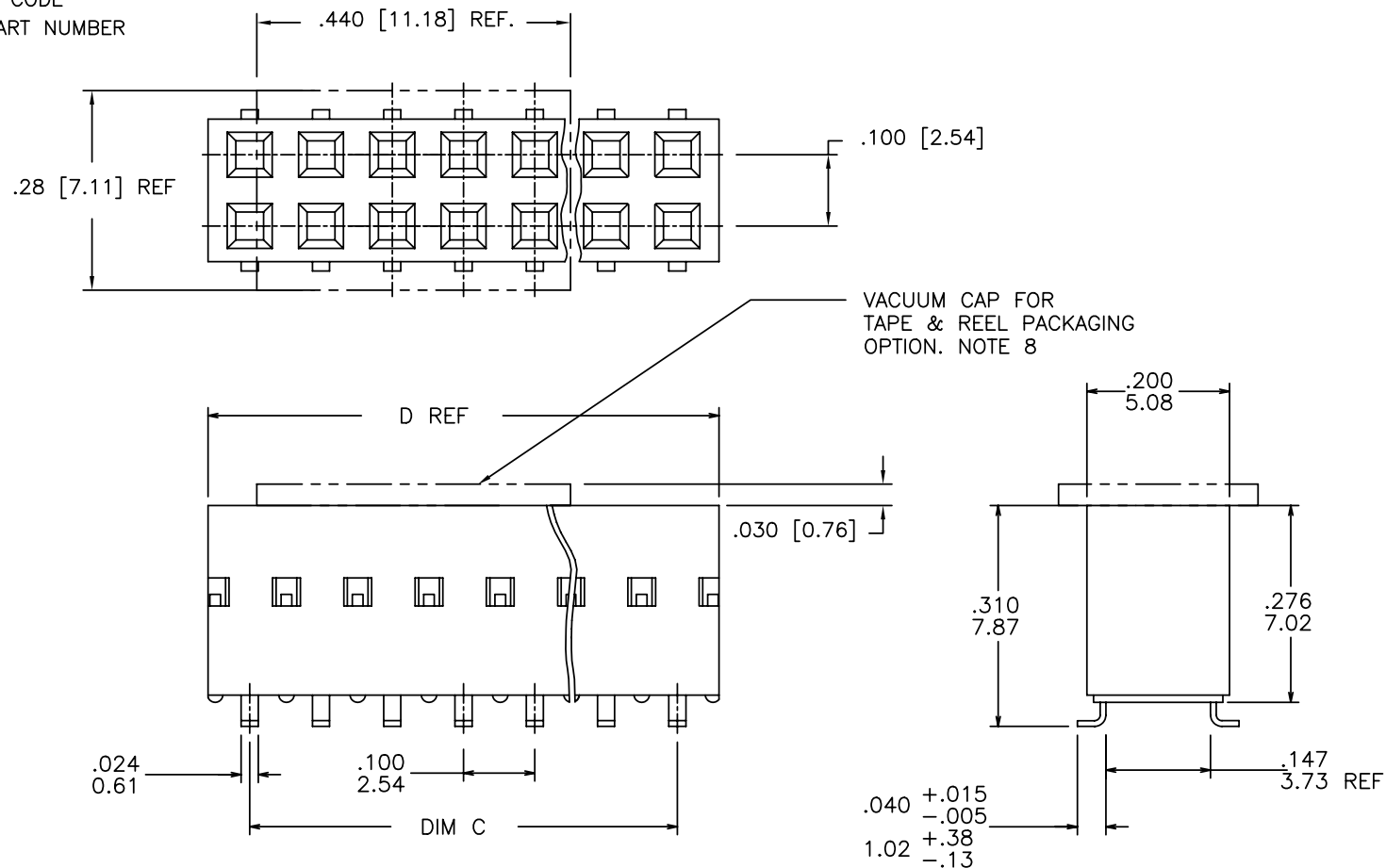
LEAD FREE OPTION

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           |  |                                       |  | INCH/MM        |  | 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            |  | dr                                    |  | J. SHREINER    |  | 11/07/90                       |  |
| 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       |  |          |  | revisio    |  | AV                  |  | AV                                    |  | AV             |  | AV                             |  |
| index       |  |          |  | sheet      |  | 1                   |  | 2                                     |  | 3              |  | 4                              |  |
|             |  |          |  |            |  | 5                   |  |                                       |  |                |  |                                |  |

| 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

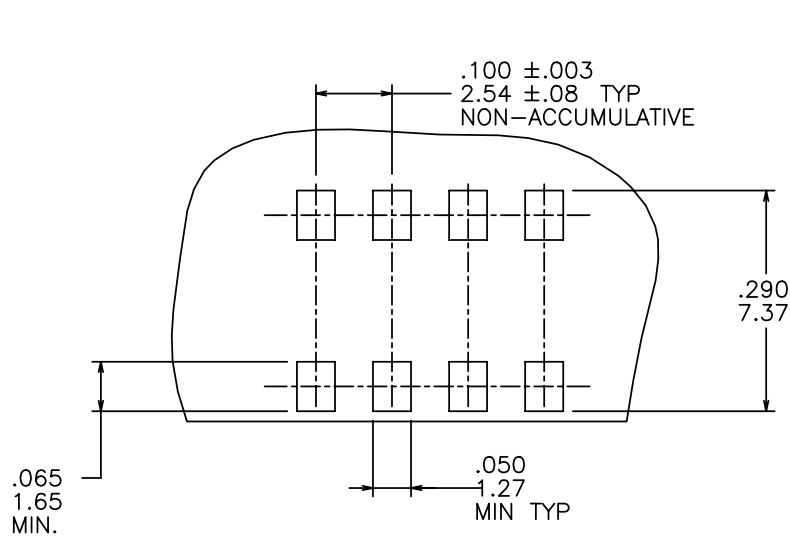


FIGURE A  
TOP ENTRY  
.025/.64 SQ PIN

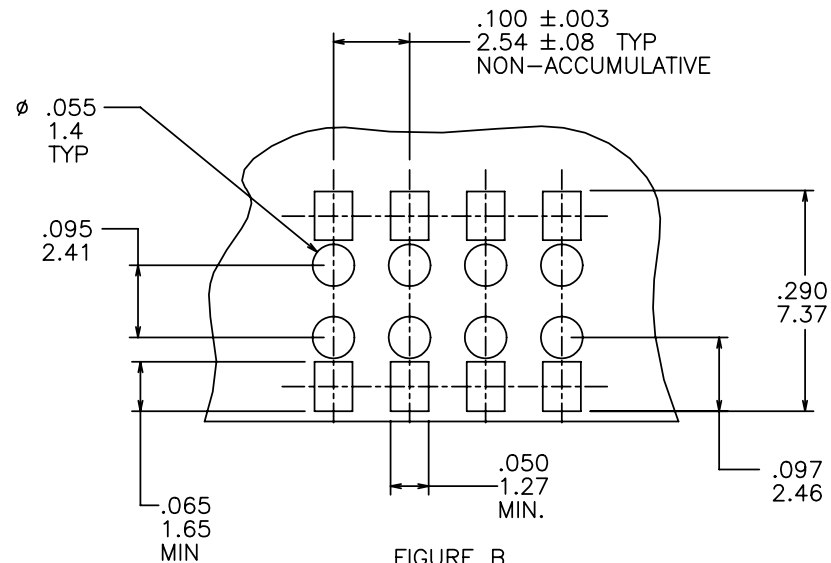
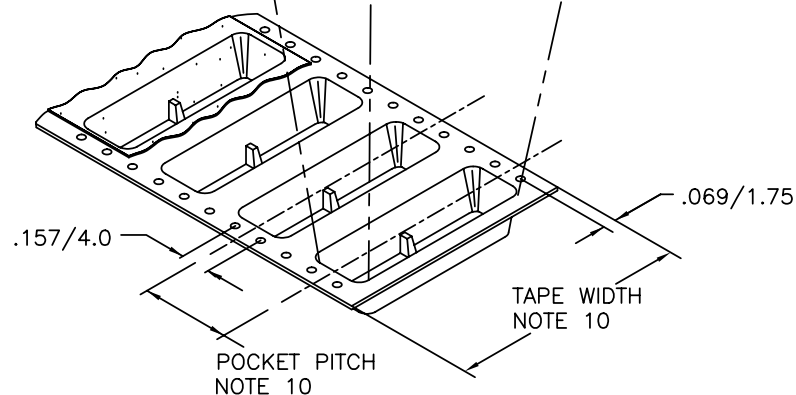


FIGURE B  
BOTTOM ENTRY (THROUGH PWB)  
.025/.64 SQ PIN

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

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

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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<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 |             |                                  |  |                       |  | title                         |  |
| AV                |  | angles                                | linea       | XX±.01/XX±.3                     |  | INCH/MM               |  | SMT DOUBLE ROW VCC ASSEMBLY   |  |
|                   |  | 0°±2°                                 |             | XXX±.0005/XXX±.13                |  | scale 1:1             |  | dwg no sheet # of 5 size      |  |
|                   |  | dr                                    | J. SHREINER | 11/07/90                         |  | FCI                   |  | 68046 A3                      |  |
|                   |  | engr                                  | M. HAHN     | 11/07/90                         |  |                       |  |                               |  |
|                   |  | chr                                   | M. HAHN     | 11/07/90                         |  |                       |  |                               |  |
|                   |  | appd                                  | M. HAHN     | 11/07/90                         |  |                       |  | type Product Customer Drawing |  |
| sheet index       |  | revision sheet                        |             |                                  |  |                       |  |                               |  |

PDS: Rev :AV

STATUS: Released

Printed: Aug 24, 2011

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2

3

4

5

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PROD. NUMBER

NO. POSI.

C DIM

D DIM

TAPE & REEL PACKAGING

LF OPTION

68046-Y26

2 X 26

2.500/63.500

2.617/66.471

NO

↑

-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 15

NOTE 12

NOTE 6 & 9

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 9 — OBSOLETE

NOTE 6 & 14

NOTE 6 & 14

mat'l. code

surface

tolerance

projection

product family

ISO 1302 ✓

ISO 406

ISO 1101

DUBOX

ltr

ecn

nodr

date

tolerances unless otherwise specified

title

AV

angles

linear

XX±.01/XX±.3

INCH/MM

SMT DOUBLE ROW

0°±2°

XXX±0.005/XX±.13

VCC ASSEMBLY

XXXX±.0020/XXX±.05

scale 1:1

dr

J. SHREINER

11/07/90

dwg no

shee5 of5

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

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sheet

Form A3

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