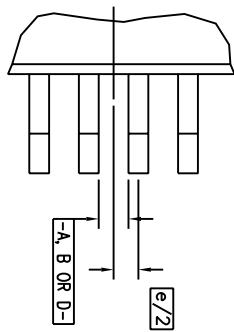
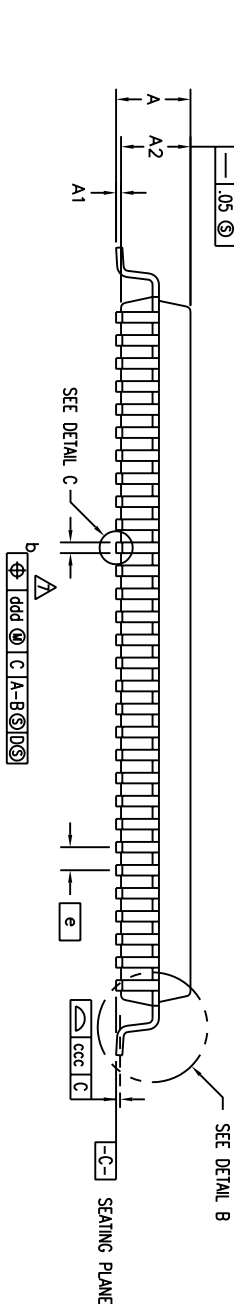
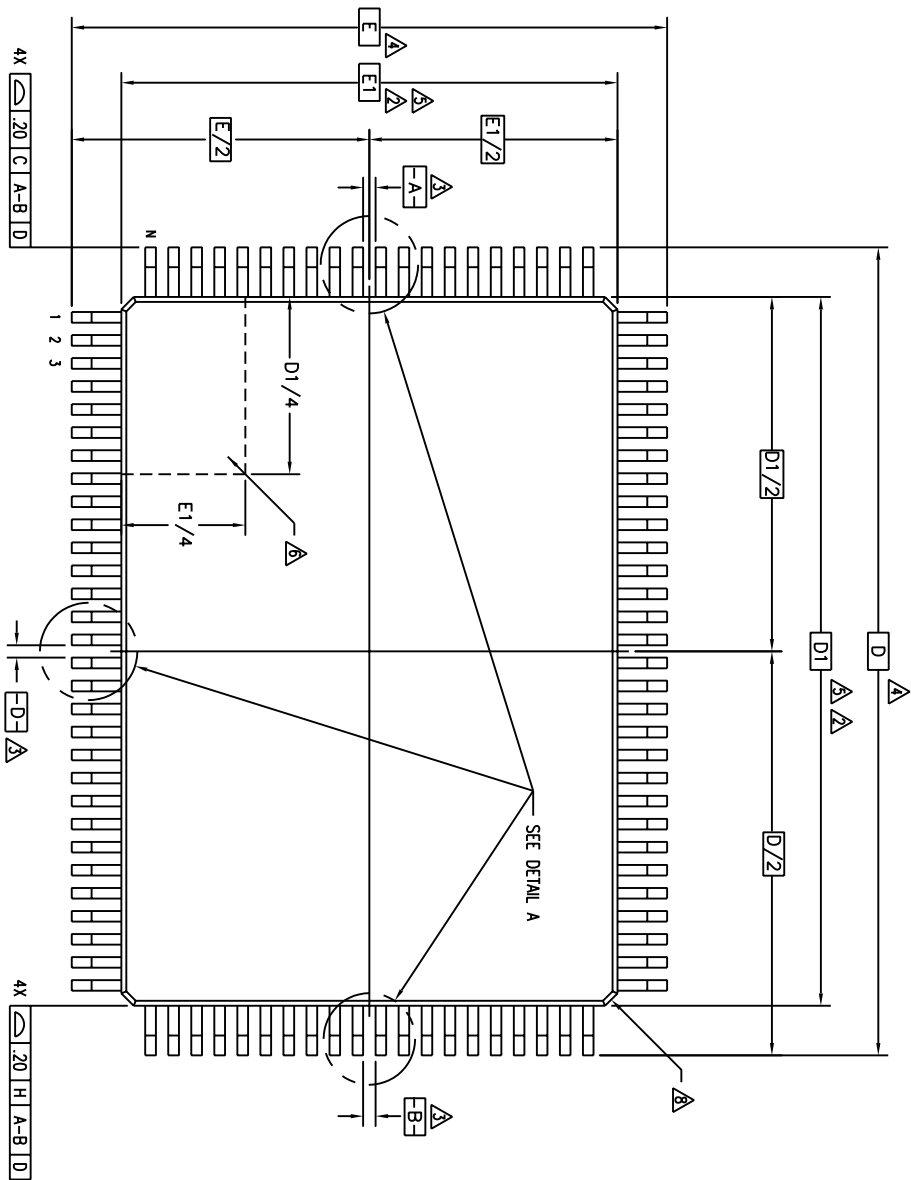


| REVISIONS | | | | |
|-----------|-----|------------------------------|----------|-----------------|
| DCN | REV | DESCRIPTION | DATE | APPROVED |
| 27389 | 01 | REDRAW TO JEDEC FORMAT | 12/12/94 | T. VU |
| | 02 | CORRECTED DETAIL A | 09/13/02 | <i>gpa</i> |
| | 03 | ADD "GREEN" PKG NOMENCLATURE | 10/13/04 | <i>SVL 192L</i> |

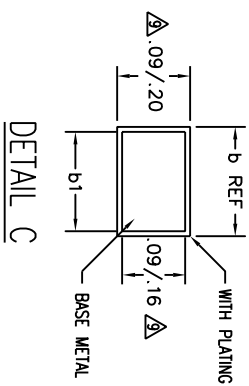
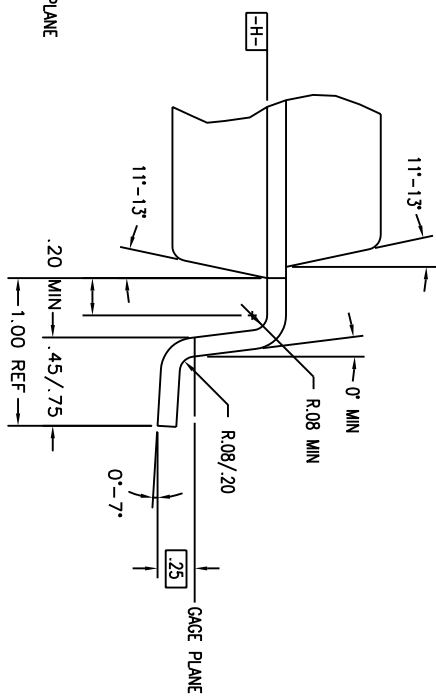
EVEN LEAD SIDES



DETAIL A



DETAIL B



DETAIL C

| | | | |
|-----------------------------|---------|---|---|
| TOLERANCES UNLESS SPECIFIED | |  | 2975 Slender Way Santa Clara, CA 95054 PHONE: (408) 727-6116 FAX: (408) 492-8674 |
| DECIMAL | ANGULAR | | |
| XXX | F | WWW.IDT.COM PK/PKG PACKAGE OUTLINE 14.0 X 20.0 X 1.4 mm TOFP 1.00/.10 FORM | |
| APPROVALS | DATE | SIZE | REV |
| DRAWN | | C | 03 |
| CHECKED | | DRAWING NO. | PSC-4045 |

| | | | |
|----------------------|--|--------------|--|
| DO NOT SCALE DRAWING | | SHEET 1 OF 2 | |
|----------------------|--|--------------|--|

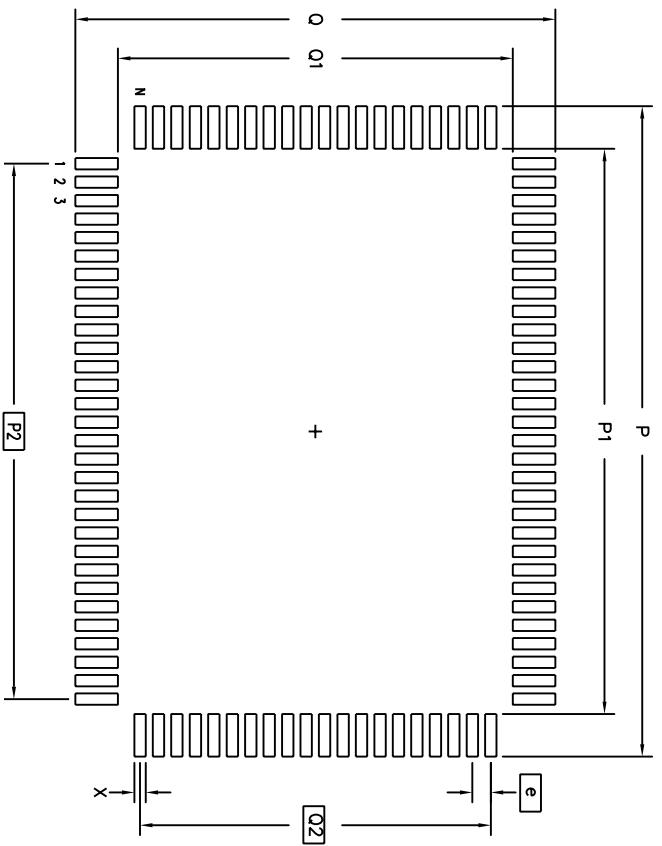
| REVISIONS | | | | |
|-----------|-----|------------------------------|----------|------------|
| DCN | REV | DESCRIPTION | DATE | APPROVED |
| 27389 | 01 | REDRAW TO JEDEC FORMAT | 12/12/94 | T. VU |
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| | 03 | ADD "GREEN" PKG NOMENCLATURE | 10/13/04 | <i>gpl</i> |

LAND PATTERN DIMENSIONS

| SYMBOL | JEDEC VARIATION DU | | | N D T E | JEDEC VARIATION BX | | | N D T E |
|--------|--------------------|-----------|------|---------|--------------------|-----------|------|---------|
| | MIN | NOM | MAX | | MIN | NOM | MAX | |
| A | - | - | 1.60 | | - | - | 1.60 | |
| A1 | .05 | .10 | .15 | | .05 | .10 | .15 | |
| A2 | 1.35 | 1.40 | 1.45 | | 1.35 | 1.40 | 1.45 | |
| D | | 22.00 BSC | | 4 | | 22.00 BSC | | 4 |
| D1 | | 20.00 BSC | | 5.2 | | 20.00 BSC | | 5.2 |
| E | | 16.00 BSC | | 4 | | 16.00 BSC | | 4 |
| E1 | | 14.00 BSC | | 5.2 | | 14.00 BSC | | 5.2 |
| N | | 100 | | | | 128 | | |
| ND | | 30 | | | | 38 | | |
| NE | | 20 | | | | 26 | | |
| e | | .65 BSC | | | | .50 BSC | | |
| b | .22 | .32 | .38 | 7 | .17 | .22 | .27 | 7 |
| b1 | .22 | .30 | .33 | | .17 | .20 | .23 | |
| ccc | - | - | .10 | | - | - | .08 | |
| ddd | - | - | .13 | | - | - | .08 | |

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2 TOP PACKAGE MAY BE SMALLER THAN BOTTOM PACKAGE BY .15 mm
- 3 DATUMS [A-B] AND [-D-] TO BE DETERMINED AT DATUM PLANE [-H-]
- 4 DIMENSIONS D AND E ARE TO BE DETERMINED AT SEATING PLANE [-C-]
- 5 DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .25 mm PER SIDE. D1 AND E1 ARE MAXIMUM BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH
- 6 DETAILS OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED
- 7 DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .08 mm IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
- 8 EXACT SHAPE OF EACH CORNER IS OPTIONAL
- 9 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .10 AND .25 mm FROM THE LEAD TIP
- 10 ALL DIMENSIONS ARE IN MILLIMETERS
- 11 THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-136, VARIATION DJ AND BX



| | MIN | MAX | MIN | MAX |
|----|-------|-------|-------|-------|
| P | 22.80 | 23.00 | 22.80 | 23.00 |
| P1 | 19.80 | 20.00 | 19.80 | 20.00 |
| P2 | 18.85 | BSC | 18.50 | BSC |
| Q | 16.80 | 17.00 | 16.80 | 17.00 |
| Q1 | 13.80 | 14.00 | 13.80 | 14.00 |
| Q2 | 12.35 | BSC | 12.50 | BSC |
| X | .30 | .50 | .30 | .40 |
| e | .65 | BSC | .50 | BSC |
| N | 100 | | 128 | |

TOLERANCES UNLESS SPECIFIED
 DECIMAL ANGULAR
 XXX° ±
 XXXX±

APPROVALS DATE

DRAWN CHECKED

SIZE C DRAWING NO. PSC-4045 REV 03

DO NOT SCALE DRAWING SHEET 2 OF 2

IDT™ 2975 Stender Way
 Santa Clara, CA 95054
 PHONE: (408) 727-6116
 FAX: (408) 492-8674

WWW.IDT.COM
 PK/PKG PACKAGE OUTLINE
 14.0 X 20.0 X 1.4 mm TOPP
 1.00/.10 FORM