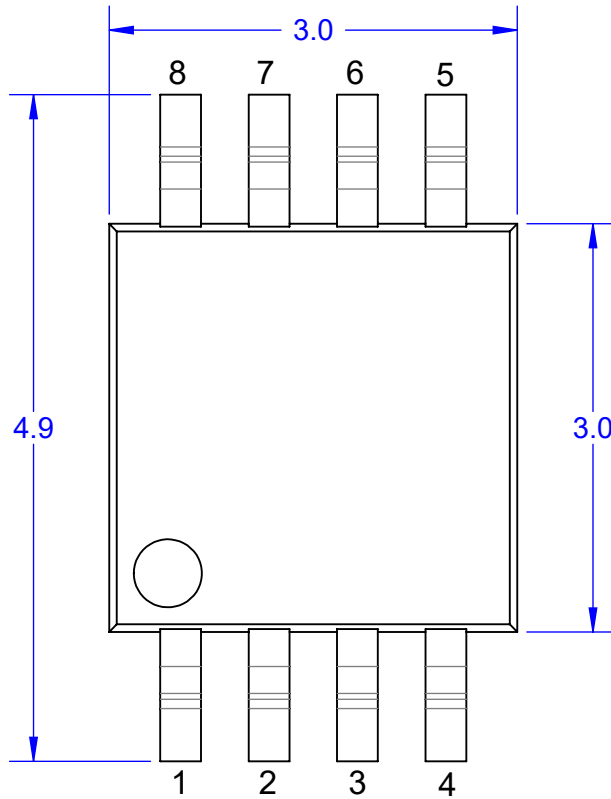
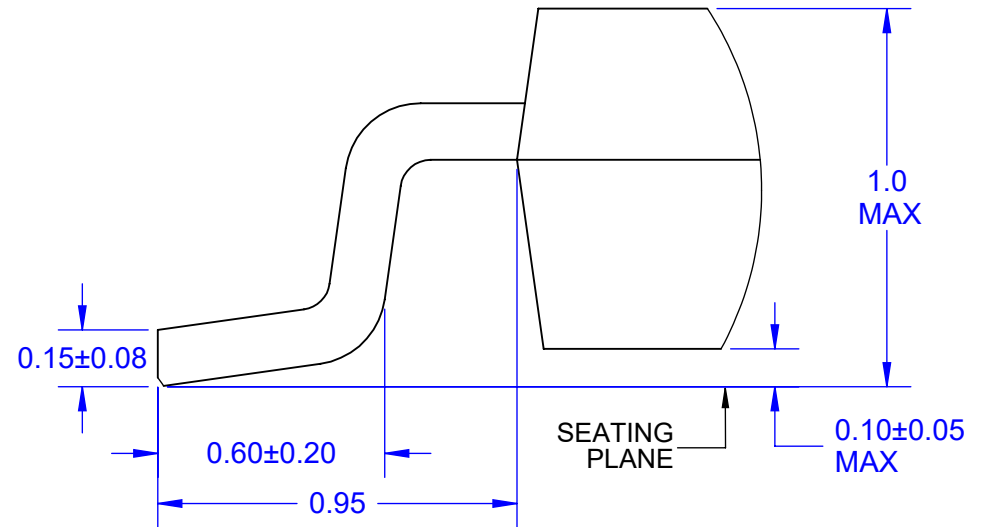


# ZERO OHM JUMPER

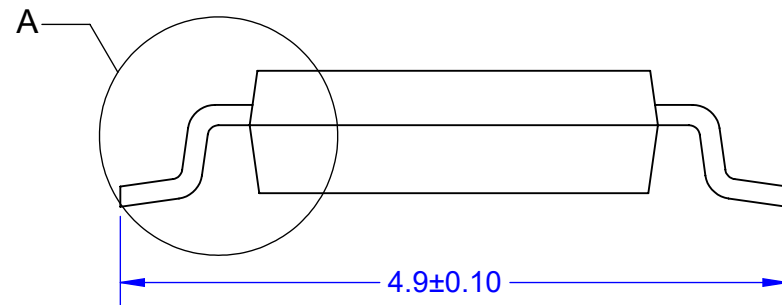
TOP VIEW



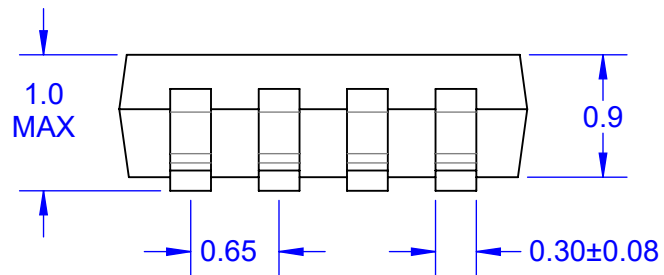
DETAIL A



END VIEW



SIDE VIEW

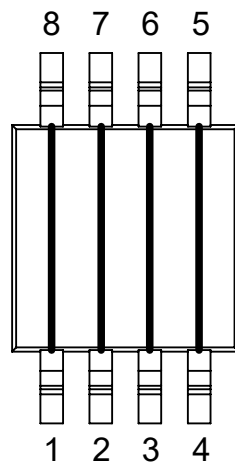


Notes: (Unless Otherwise Specified)

1. DIMENSIONS ARE IN mm.
2. SEE DAISY CHAIN JUMPER DIAGRAMS (PAGE 2).
3. SEE PART NUMBER CONFIGURATION (PAGE 3).
4. RECOMMENDED PC BOARD LAYOUT PATTERN (PAGE 5).

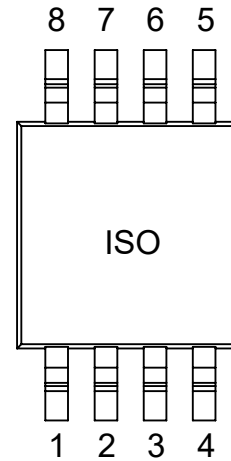
|             |           |                                                                                       |      |             |              |
|-------------|-----------|---------------------------------------------------------------------------------------|------|-------------|--------------|
| APPROVALS   | DATE      |  |      |             |              |
| DRAWN T.Au  | 7/16/2028 |                                                                                       |      |             |              |
| ENG M. Hart | 7/16/2028 | TITLE MSOP8-DC28<br>ZERO OHM JUMPER                                                   |      |             |              |
| MFG         |           |                                                                                       |      |             |              |
| QA          |           | SCALE                                                                                 | SIZE | DRAWING NO. | REV          |
| CUST        |           | 18:1                                                                                  | A    | 150828      | A            |
| REVISED     |           | DO NOT SCALE DRAWING                                                                  |      |             | SHEET 1 OF 6 |

# INTERNAL WIRING CIRCUIT (JUMPER) DAISY CHAIN PART NUMBER SUFFIX TOP VIEW

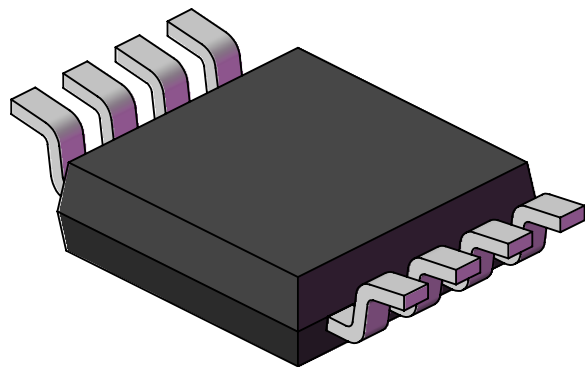


DC28  
JUMPER

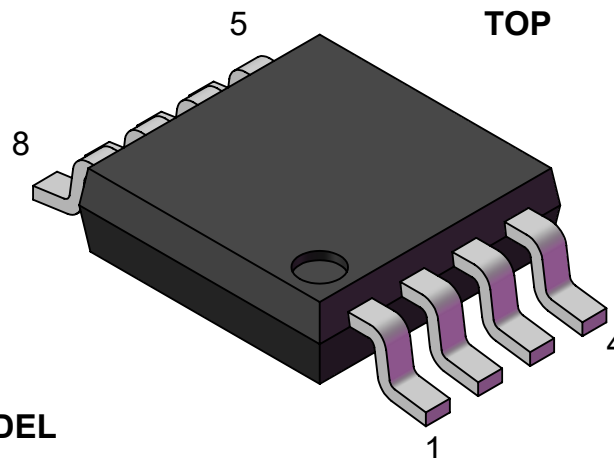
1~8  
2~7  
3~6  
4~5



ISO = ISOLATED  
NO CONNECTIONS



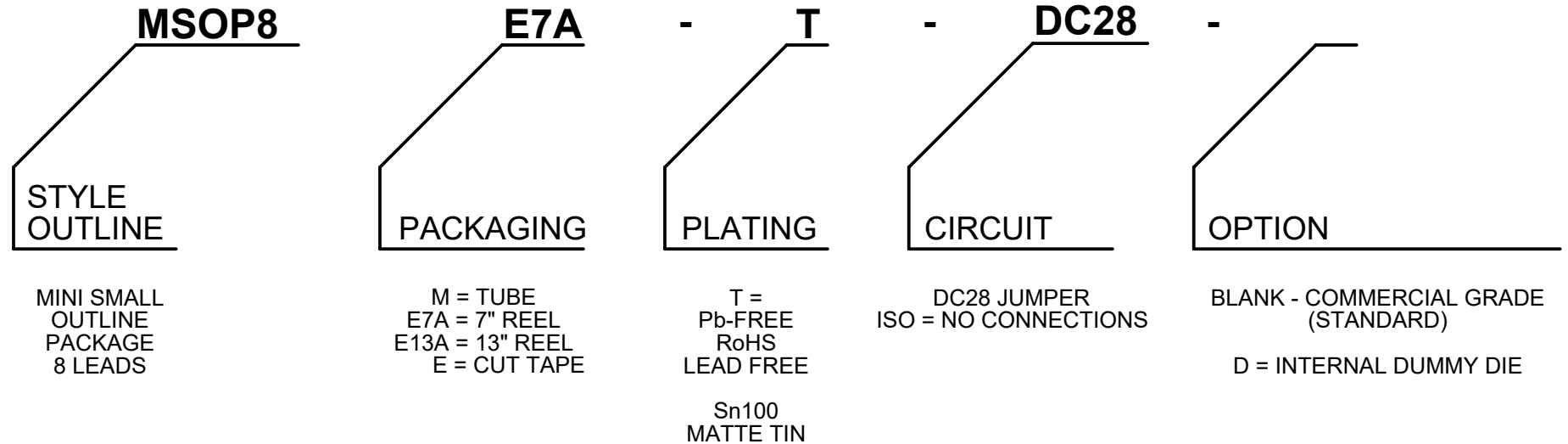
BOTTOM



MODEL

|                                     |           |                       |              |
|-------------------------------------|-----------|-----------------------|--------------|
| <b>TopLine®</b>                     |           |                       |              |
| TITLE MSOP8-DC28<br>ZERO OHM JUMPER |           |                       |              |
| SCALE<br>12:1                       | SIZE<br>A | DRAWING NO.<br>150828 | REV<br>A     |
| DO NOT SCALE DRAWING                |           |                       | SHEET 2 OF 6 |

## PART NUMBERING SYSTEM

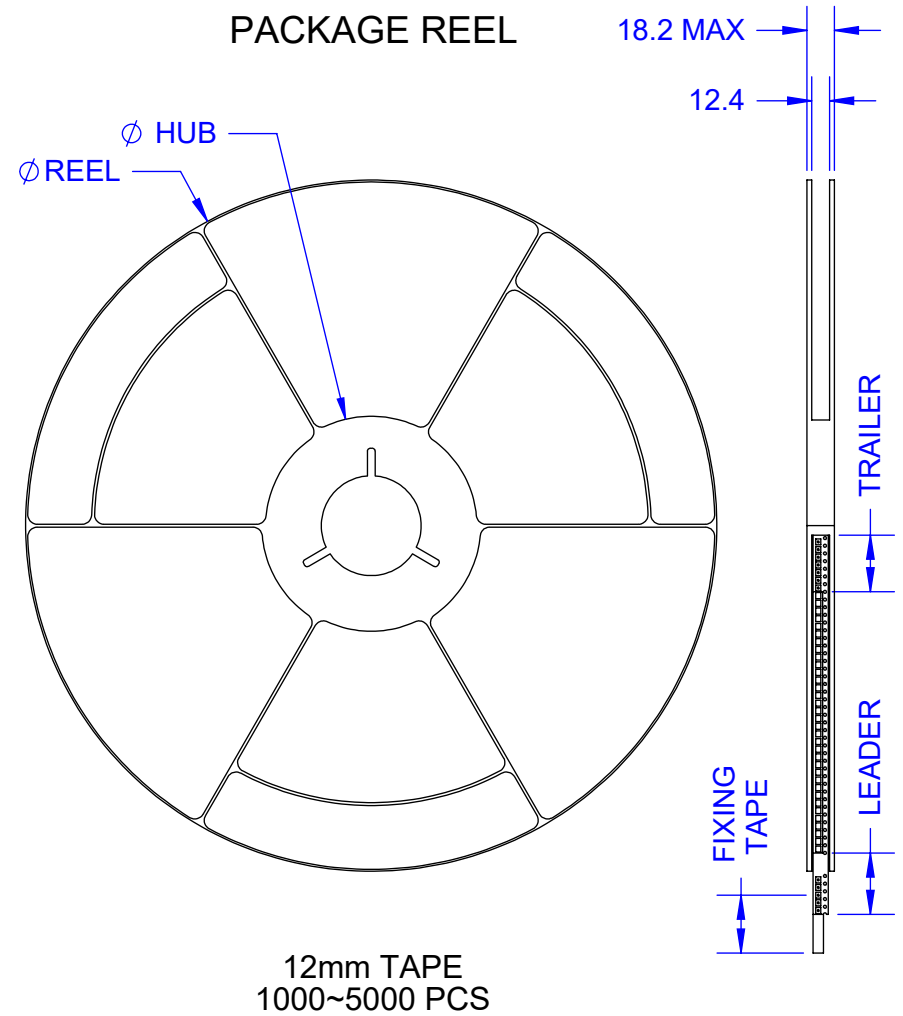
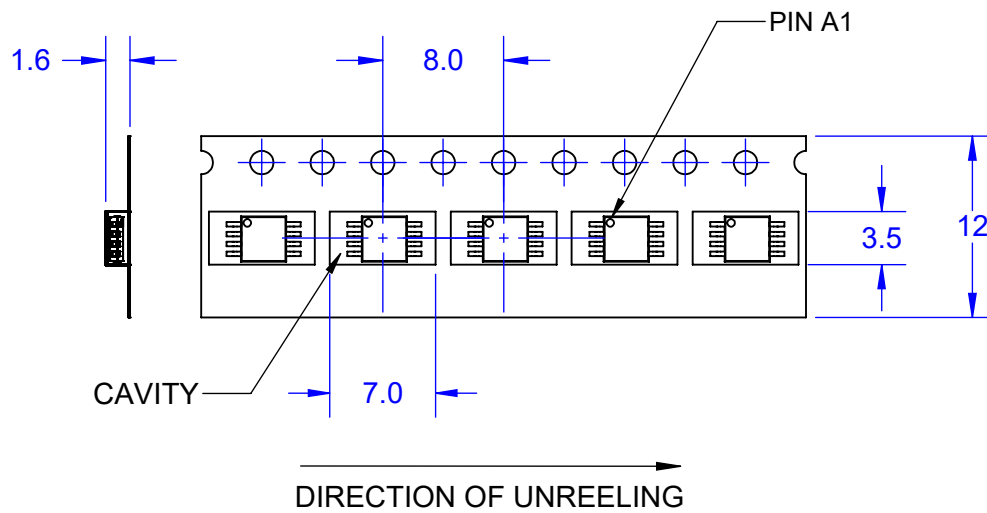


| PART NUMBER      | SHORTED PINS         | PACKAGING     | RoHS<br>Pb-FREE | QTY      |
|------------------|----------------------|---------------|-----------------|----------|
| MSOP8E-T-DC28    | 1-8, 2-7<br>3-6, 4-5 | CUT TAPE      | YES             | 10 - 999 |
| MSOP8E7A-T-DC28  | 1-8, 2-7<br>3-6, 4-5 | 178mm<br>REEL | YES             | 1000     |
| MSOP8E13A-T-DC28 | 1-8, 2-7<br>3-6, 4-5 | 330mm<br>REEL | YES             | 5000     |
| MSOP8E13A-T-ISO  | NO<br>CONNECTIONS    | 330mm<br>REEL | YES             | 5000     |

|                                     |           |                       |              |
|-------------------------------------|-----------|-----------------------|--------------|
| <b>TopLine®</b>                     |           |                       |              |
| TITLE MSOP8-DC28<br>ZERO OHM JUMPER |           |                       |              |
| SCALE<br>NONE                       | SIZE<br>A | DRAWING NO.<br>150828 | REV<br>A     |
| DO NOT SCALE DRAWING                |           |                       | SHEET 3 OF 6 |

# TAPE SPECIFICATION MSOP8 SURFACE MOUNT DEVICE

## TAPE DIMENSIONS



## REEL CODE

| CODE | REEL DIAMETER   | HUB            |
|------|-----------------|----------------|
| E    | NONE            | NONE           |
| E7A  | 178mm (7-inch)  | 50mm (2-inch)  |
| E13A | 330mm (13-inch) | 100mm (4-inch) |

ALL DIMENSIONS IN mm.

**TopLine**

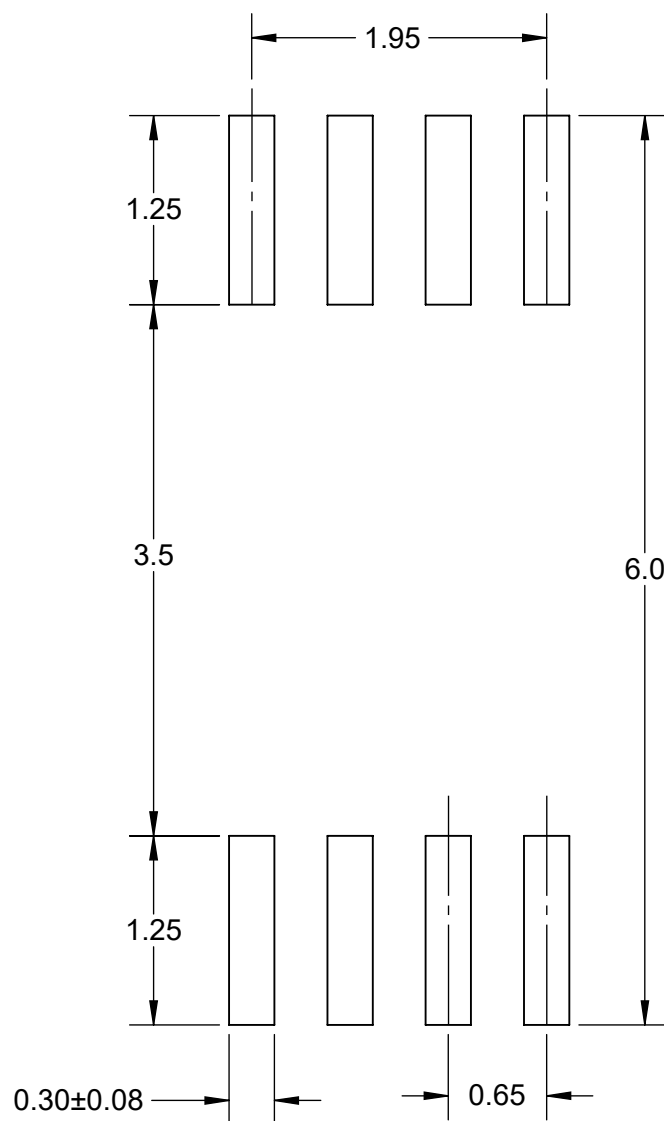
TITLE MSOP8-DC28  
ZERO OHM JUMPER

|              |           |                       |          |
|--------------|-----------|-----------------------|----------|
| SCALE<br>2:1 | SIZE<br>A | DRAWING NO.<br>150828 | REV<br>A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

SHEET 4 OF 6

## PCB BOARD LAND PATTERN



Notes: (Unless Otherwise Specified)

1. DIMENSIONS: mm.
2. PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE.
3. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.

**TopLine**<sup>®</sup>

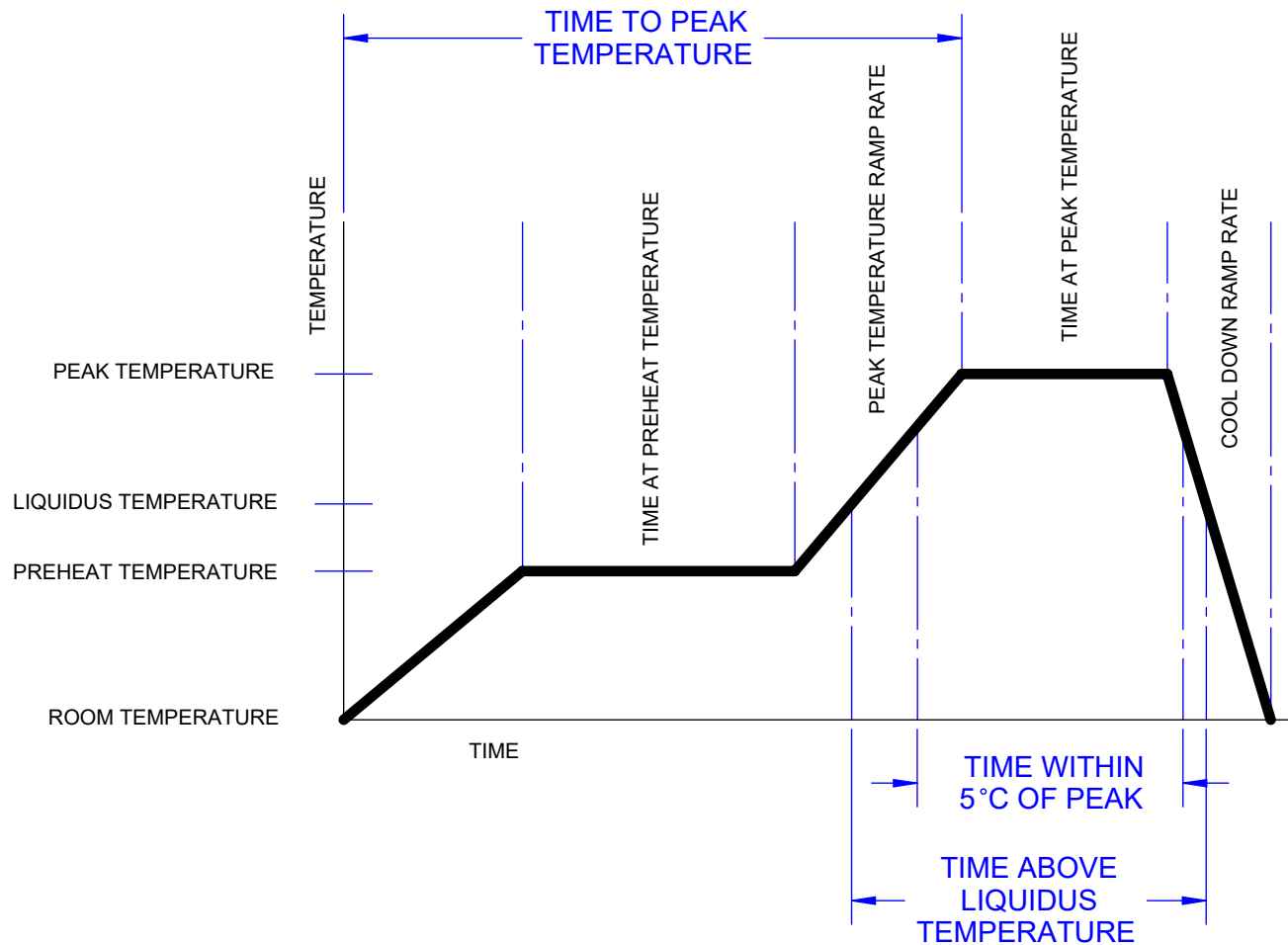
TITLE MSOP8-DC28  
ZERO OHM JUMPER

|               |           |                       |          |
|---------------|-----------|-----------------------|----------|
| SCALE<br>20:1 | SIZE<br>A | DRAWING NO.<br>150828 | REV<br>A |
|---------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

SHEET 5 OF 6

## LEAD FREE REFLOW PROFILE OF SMD PACKAGE



| DESCRIPTION                | REQUIREMENT                  |
|----------------------------|------------------------------|
| AVERAGE PREHEAT RAMP RATE  | 3°C /SECOND MAXIMUM          |
| PREHEAT TEMPERATURE        | 150°C MINIMUM, 200°C MAXIMUM |
| PREHEAT TIME               | 60 TO 80 SECONDS             |
| RAMP TO PEAK               | 3°C /SECOND MAXIMUM          |
| TIME OVER LIQUIDUS (217°C) | 60 TO 150 SECONDS            |
| PEAK TEMPERATURE           | 260°C +0/-5°C                |
| TIME WITHING 5°C OF PEAK   | 20 TO 40 SECONDS             |
| RAMP - COOL DOWN           | 6°C /SECONDS MAXIMUM         |
| TIME 25°C TO PEAK          | 6 MINUTES MAXIMUM            |

**TopLine®**

TITLE MSOP8-DC28  
ZERO OHM JUMPER

|               |           |                       |          |
|---------------|-----------|-----------------------|----------|
| SCALE<br>NONE | SIZE<br>A | DRAWING NO.<br>150828 | REV<br>A |
|---------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

SHEET 6 OF 6