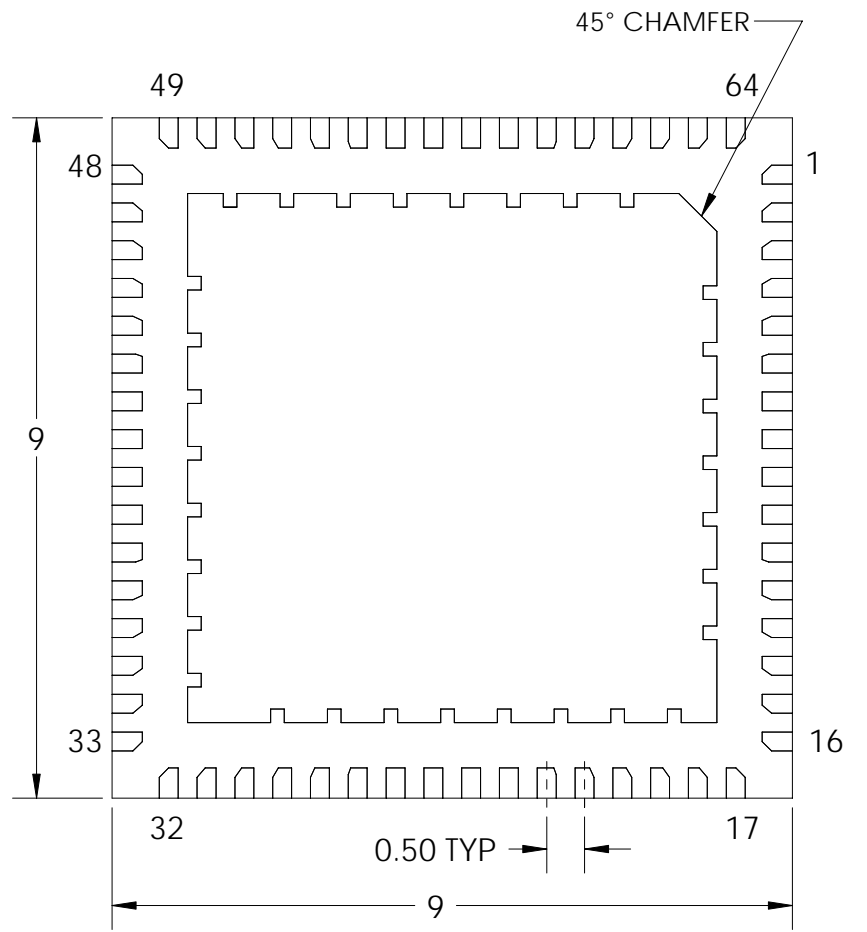
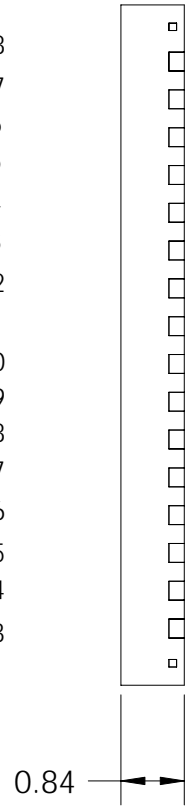
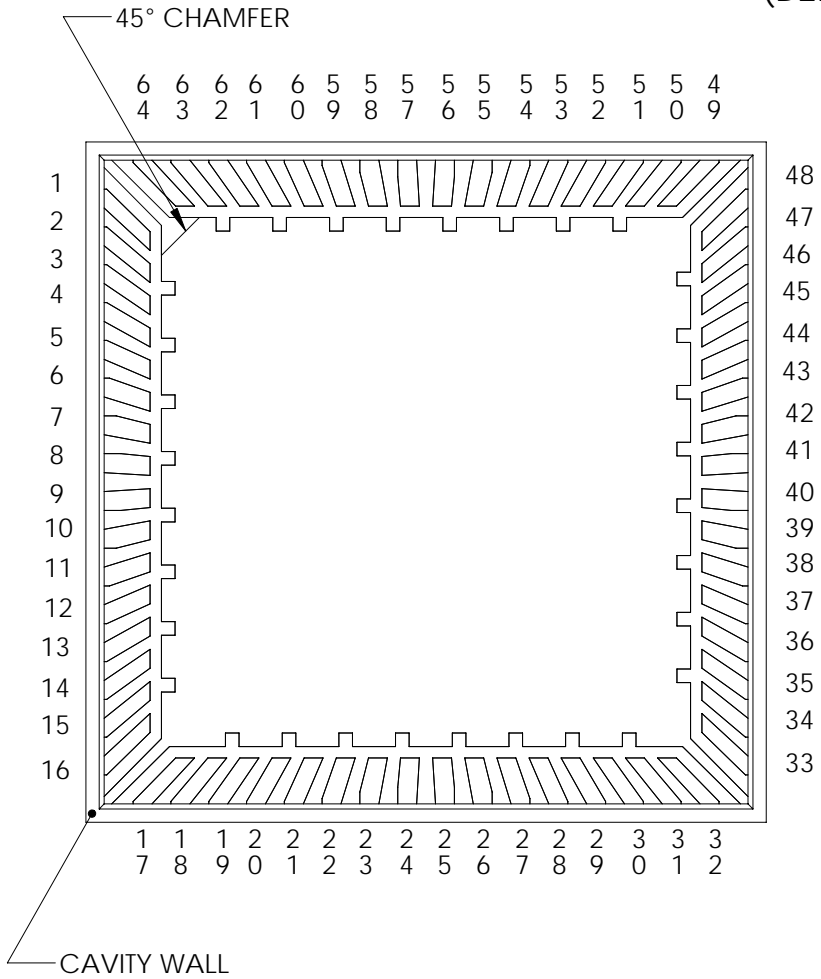




TOP VIEW

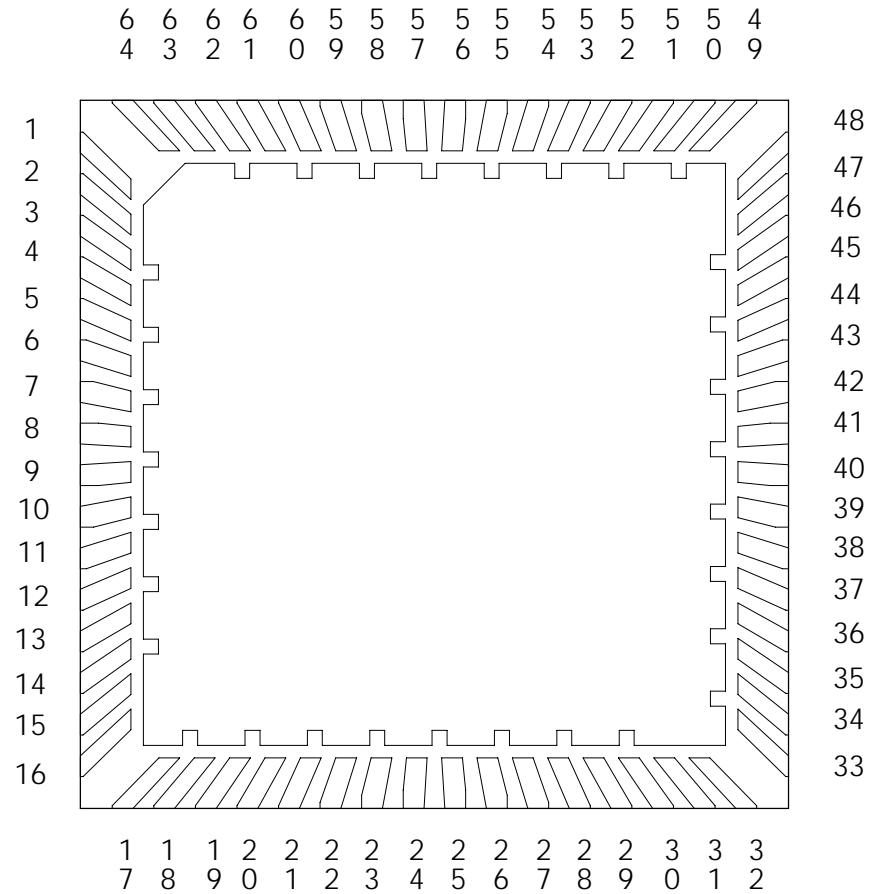
SIDE VIEW  
(BEFORE LID ATTACH)

BOTTOM VIEW



<b>Mirror</b> Semiconductor™			
TITLE: 64-LEAD 9mm P=0.5 mm M-QFN CAVITY PACKAGE			
SCALE <b>10:1</b>	SIZE <b>A</b>	DWG. NO. <b>456450</b> <b>M-QFN64W.5</b>	REV <b>A</b>
DO NOT SCALE DRAWING			SHEET 2 OF 4

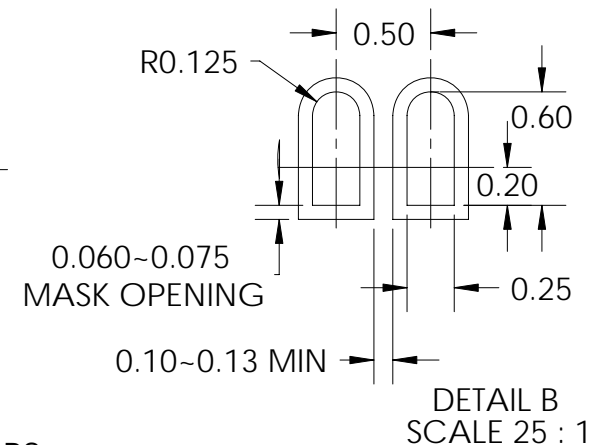
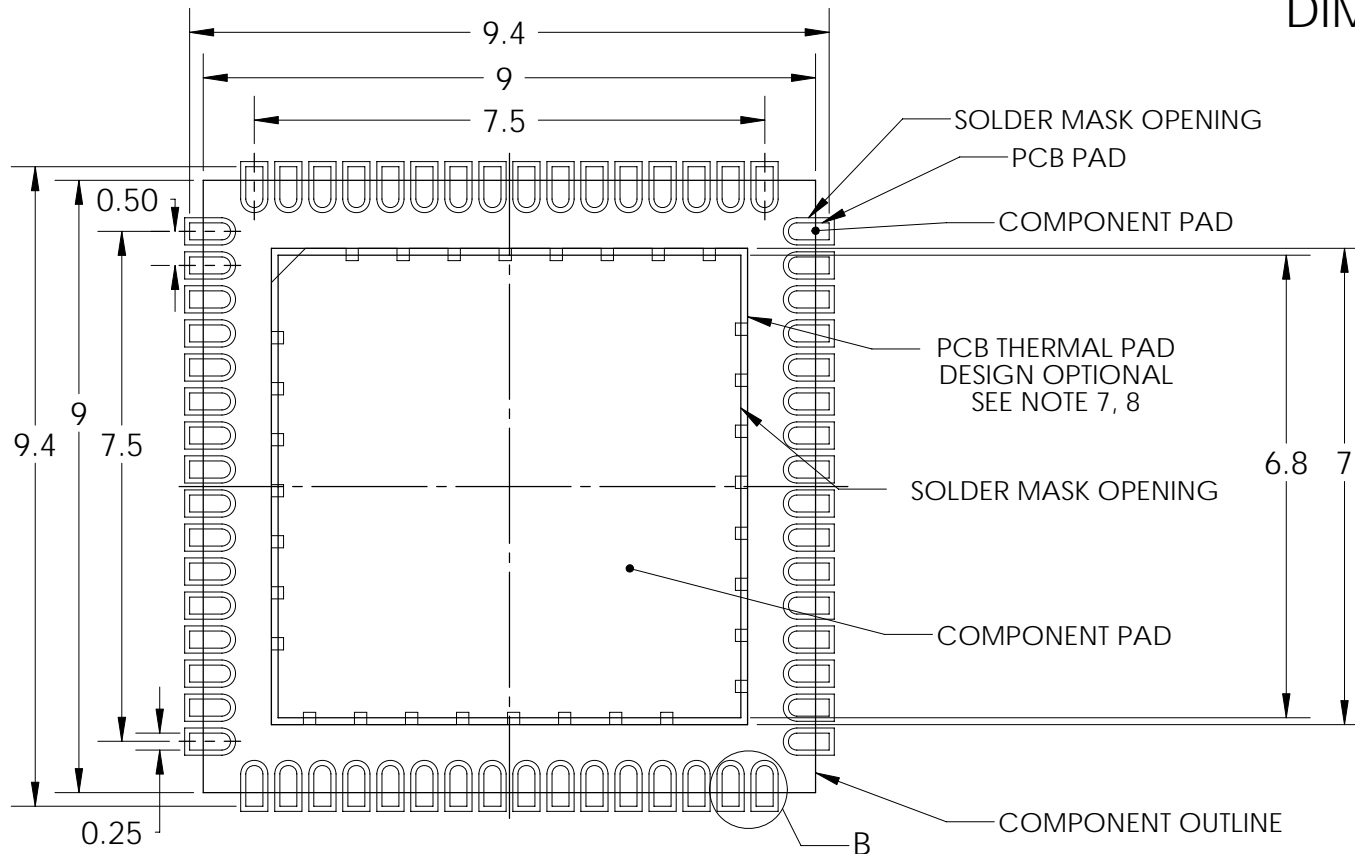
# BOND DIAGRAM



TITLE:  
 64-LEAD 9mm P=0.5 mm  
 M-QFN CAVITY PACKAGE

SCALE <b>11:1</b>	SIZE <b>A</b>	DWG. NO. <b>456450 M-QFN64W.5</b>	REV <b>A</b>
DO NOT SCALE DRAWING		SHEET 3 OF 4	

# RECOMMENDED PC BOARD LAYOUT DIMENSIONS IN MM



Notes: (Unless Otherwise Specified).

- 1) DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN KNOWLEDGE BASE WHEN DESIGNING THE PCB.
- 2) SURROUND EACH SIDE OF I/O PERIMETER PADS WITH 0.060~0.075 mm (NSMD) SOLDER MASK OPENING (2.4~3.0mils). OPTIONALLY OK TO USE RECTANGLE (NSMD) MASK OPENING AROUND I/O PADS.
- 3) ROUNDED PCB LAND PADS REDUCE SOLDER BRIDGING. PAD CHAMFER ANGLE MAY VARY
- 4) PCB LANDS SHOULD BE 0.2mm LONGER THAN THE PACKAGE I/O PADS.
- 5) THE WIDTH OF PERIMETER PCB PADS SHOULD MATCH (1:1) THE SAME WIDTH AS THE PACKAGE PADS.
- 6) REFER TO INDUSTRY REFERENCES SUCH AS IPC-SM-782 FOR PCB LAND PATTERN DESIGN.
- 7) THERMAL GROUND PADS MAY BE CHANGED TO SUITE REQUIREMENTS OF THE DESIGNER.
  - A. MAKE COPPER THERMAL PAD AS LARGE AS POSSIBLE.
  - B. DRILL MULTIPLE THERMAL VIAS 0.25~0.33mm DIAMETER USING 0.8~1.2mm PITCH GRID.
  - C. PLATE THERMAL VIA BARRELS WITH 1-OUNCE COPPER (18µm).
  - D. TENT (COVER) THERMAL VIAS WITH SOLDER MASK 0.1mm LARGER THEN THE VIA DIAMETER.
- 8) STENCIL DESIGN MAY BE CHANGED TO SUITE REQUIREMENTS OF THE DESIGNER.
  - A. LASER CUT STENCIL 0.125mm (5mil) THICK. APERTURE SIZE-TO-LAND RATIO OF 1:1.
  - B. THE SOLDER PASTE OPENING IN THE THERMAL PAD AREA SHOULD BE A MATRIX ARRAY OF SMALLER APERTURES INSTEAD OF ONE LARGE APERTURE TO CONTROL PASTE AMOUNTS.
  - C. APPLY 50% TO 80% SOLDER PASTE COVERAGE IN THE THERMAL PAD AREA.



TITLE:  
64-LEAD 9mm P=0.5 mm  
M-QFN CAVITY PACKAGE

SCALE	SIZE	DWG. NO.	REV
11:1	A	456450 M-QFN64W.5	A
DO NOT SCALE DRAWING			SHEET 4 OF 4