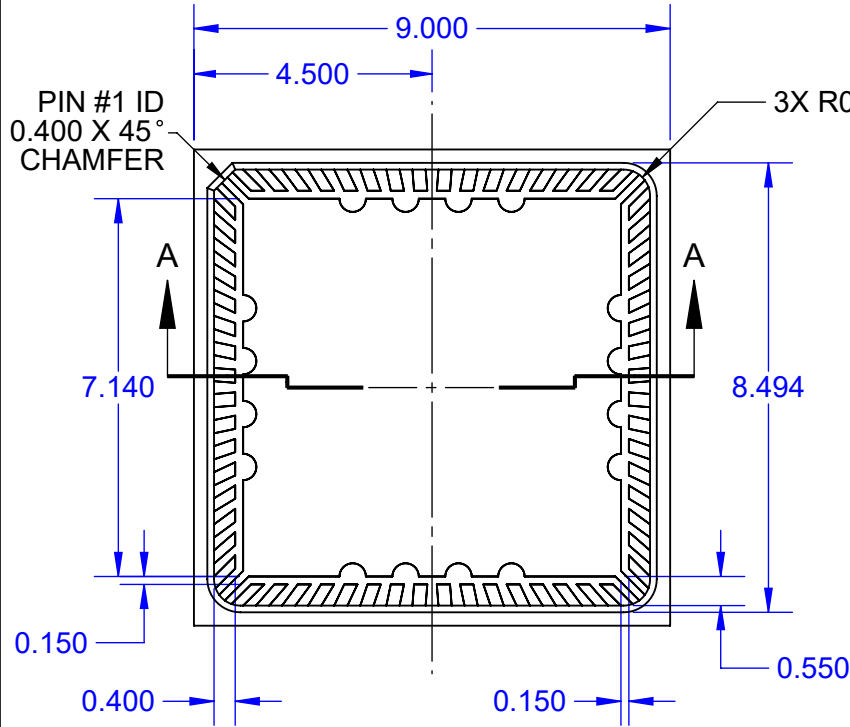
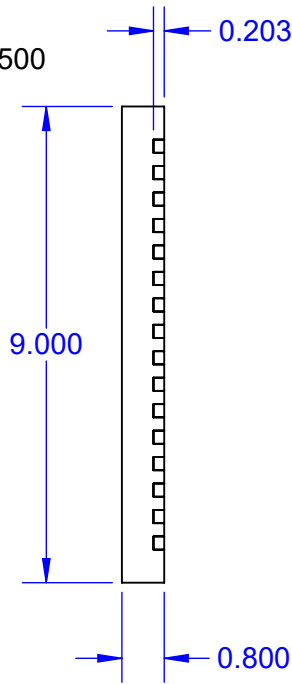


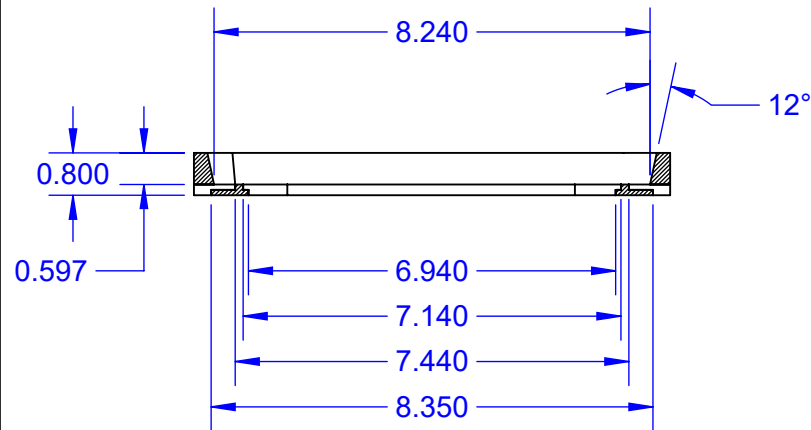
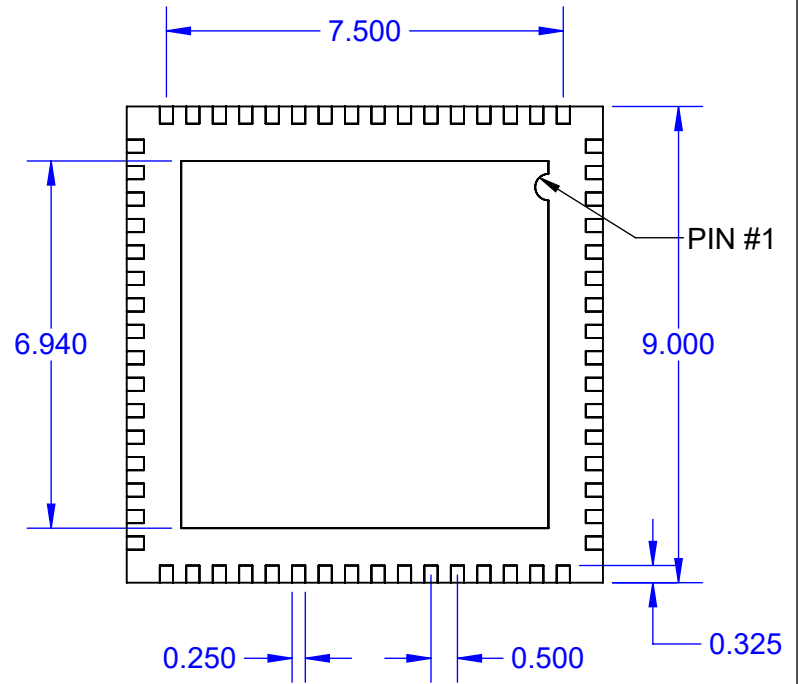
TOP



SIDE



BOTTOM

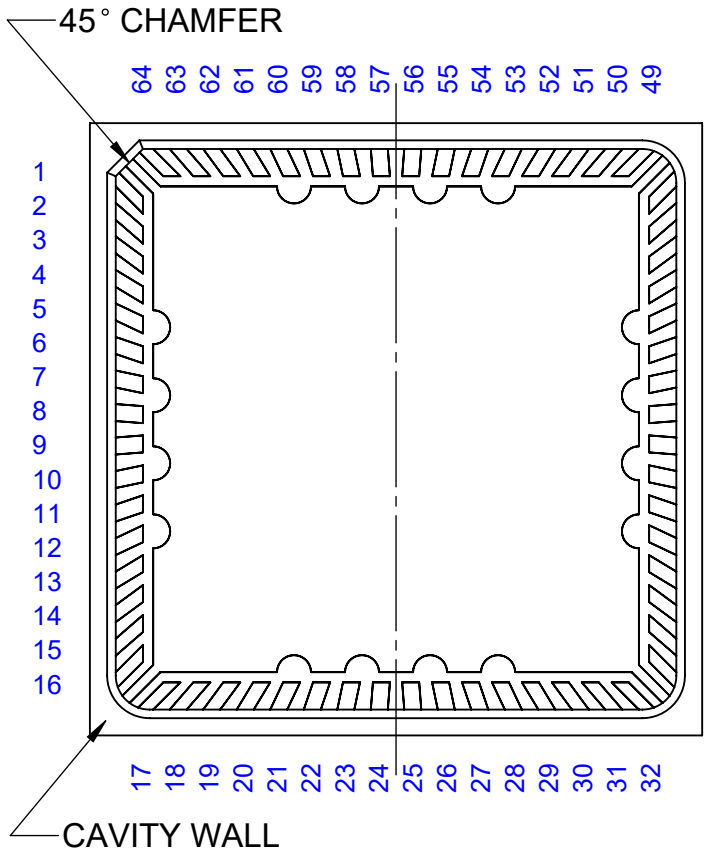


Notes:

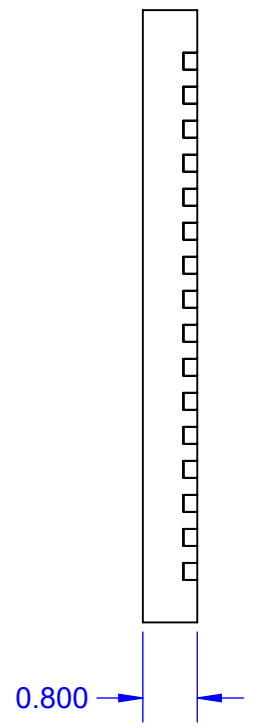
- 1) BODY: PLASTIC, SEMICONDUCTOR GRADE.
- 2) LEAD FRAME: COPPER C-194FH 0.203μm THICK.
- 3) LEAD FRAME PLATING: Ni/Au (PART No. SUFFIX - G3).
NICKEL 100~300 MICRO-INCH (2.5μm~7.6μm) THICK.
GOLD 40~80 MICRO-INCH (1μm~2μm) THINCK.
- 4) DIE PAD: 7mm x 7mm.
- 7) DIMENSIONS: MM.

APPROVALS	DATE				
DRAWN T.Au	08/24/15				
ENG M. Hart	08/24/15	TITLE 64-LEAD 9MM P=0.5MM M-QFN CAVITY PACKAGE			
MFG					
QA		SCALE 7:1	SIZE A	DRAWING NO. 456430	REV A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 4
REVISED					

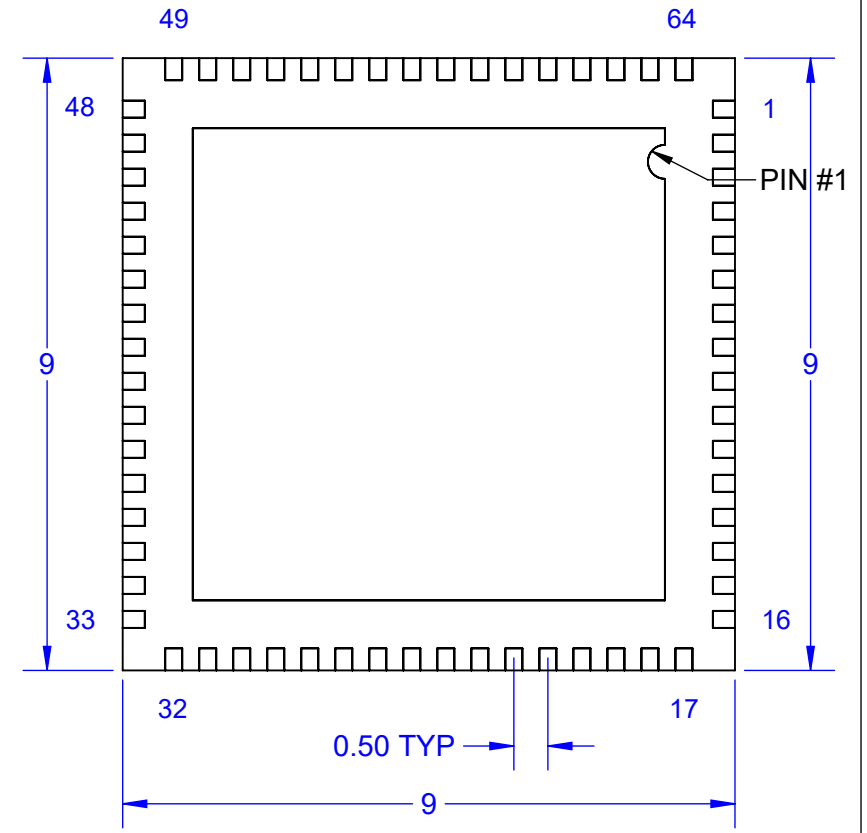
TOP VIEW



**SIDE VIEW
(BEFORE LID ATTACH)**

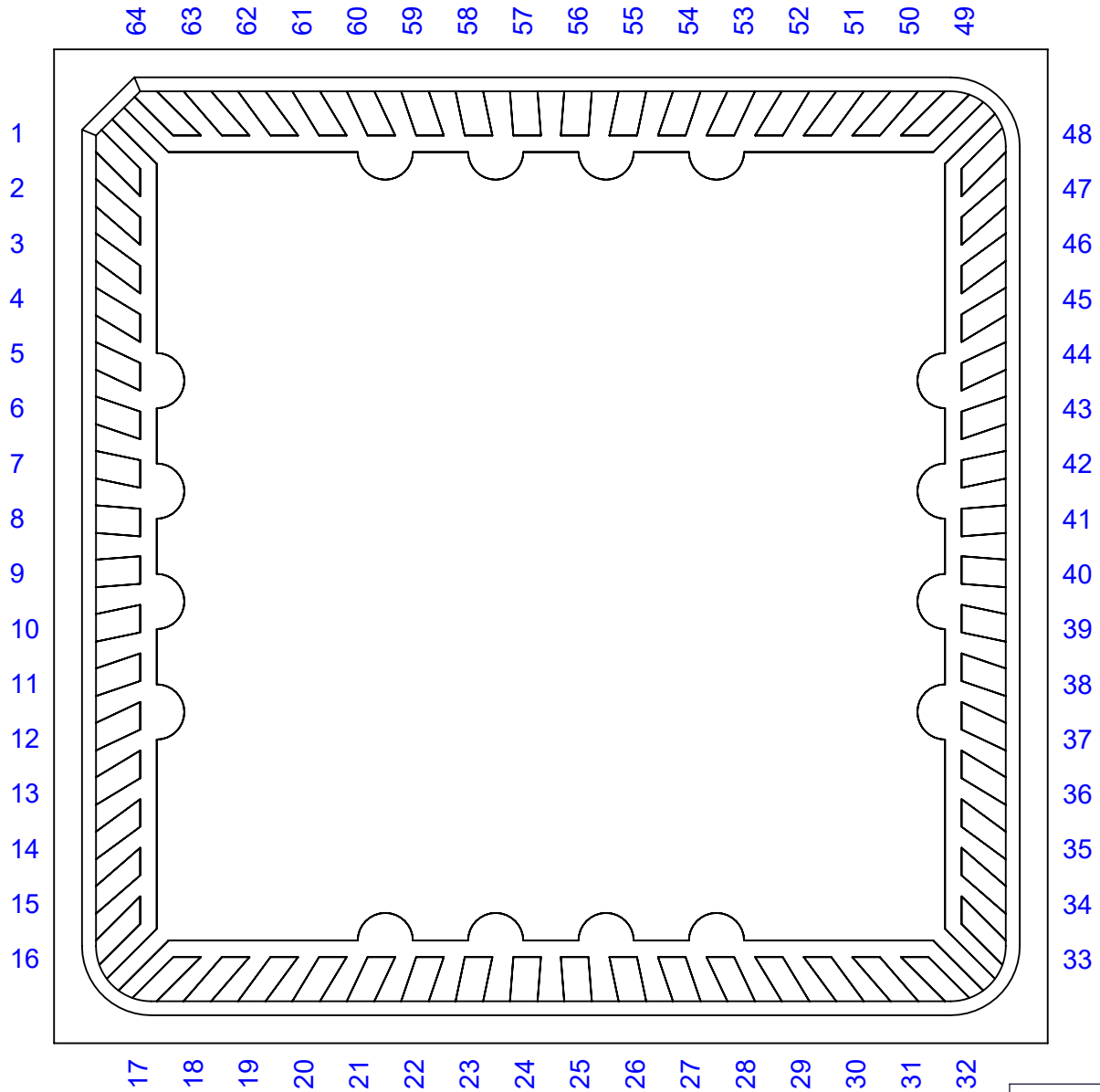


BOTTOM VIEW



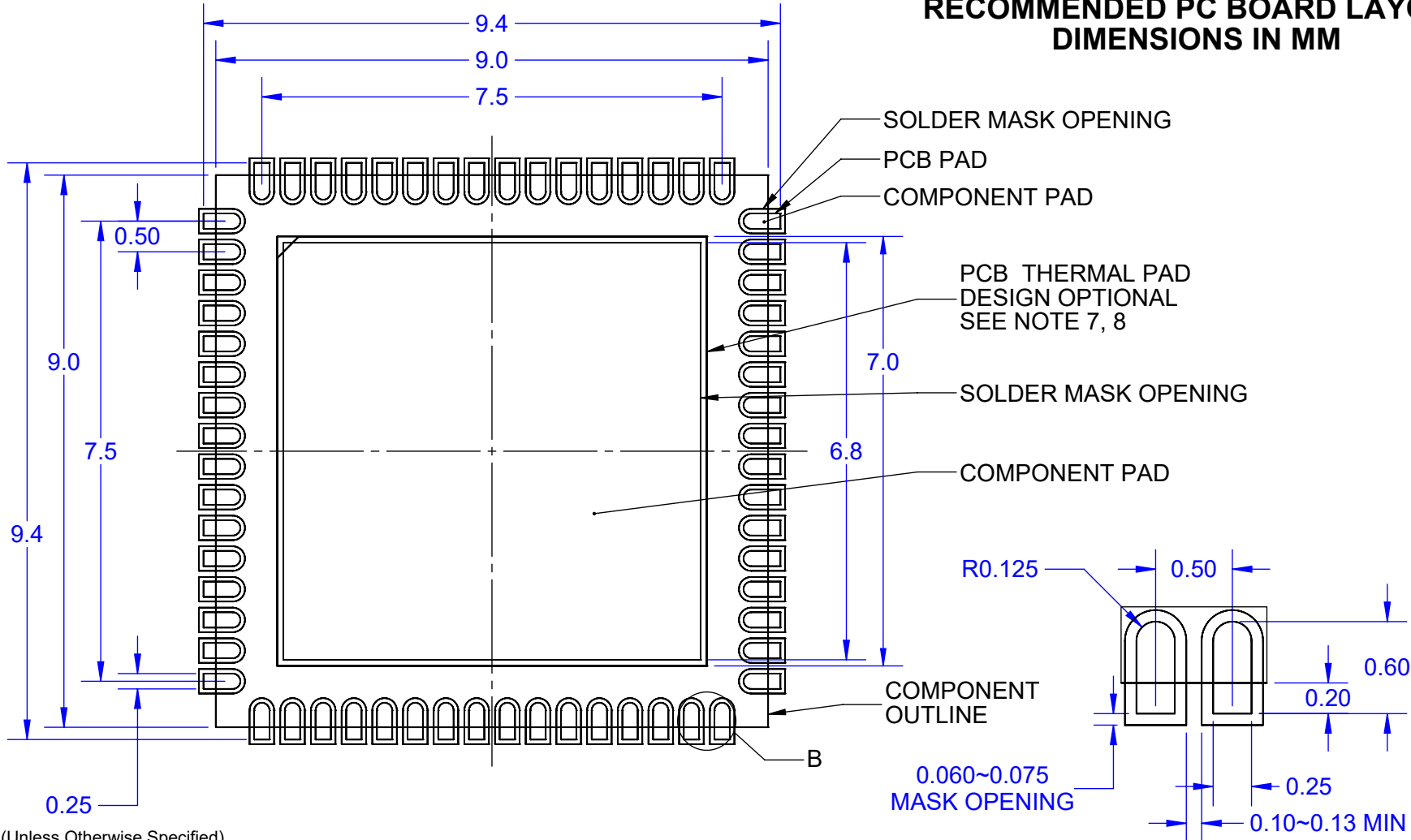
APPROVALS	DATE				
DRAWN T.Au	08/24/15				
ENG M. Hart	08/24/15	TITLE 64-LEAD 9MM P=0.5MM M-QFN CAVITY PACKAGE			
MFG		SCALE 9:1	SIZE A	DRAWING NO. 456430	REV A
QA					
CUST		DO NOT SCALE DRAWING			SHEET 2 OF 4
REVISED					

BOND DIAGRAM



TITLE 64-LEAD 9MM P=0.5MM M-QFN CAVITY PACKAGE			
SCALE 16:1	SIZE A	DRAWING NO. 456430	REV A
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.

DETAIL B
SCALE 25 : 1

TITLE 64-LEAD 9MM P=0.5MM M-QFN CAVITY PACKAGE			
SCALE 10:1	SIZE A	DRAWING NO. 456430	REV A
DO NOT SCALE DRAWING			SHEET 4 OF 4