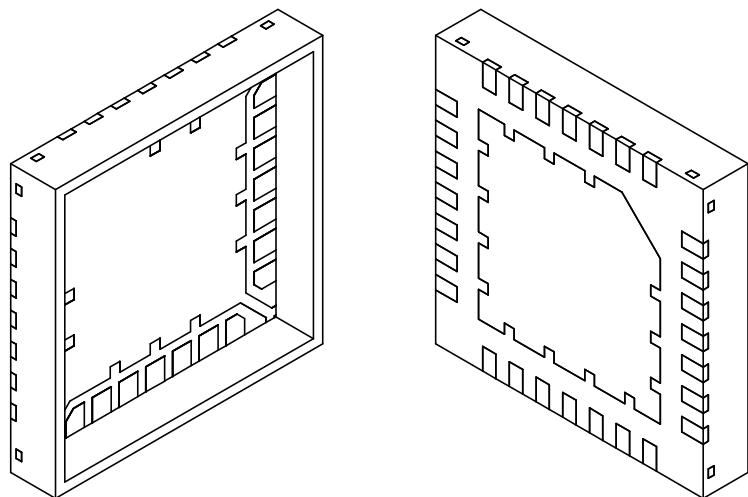
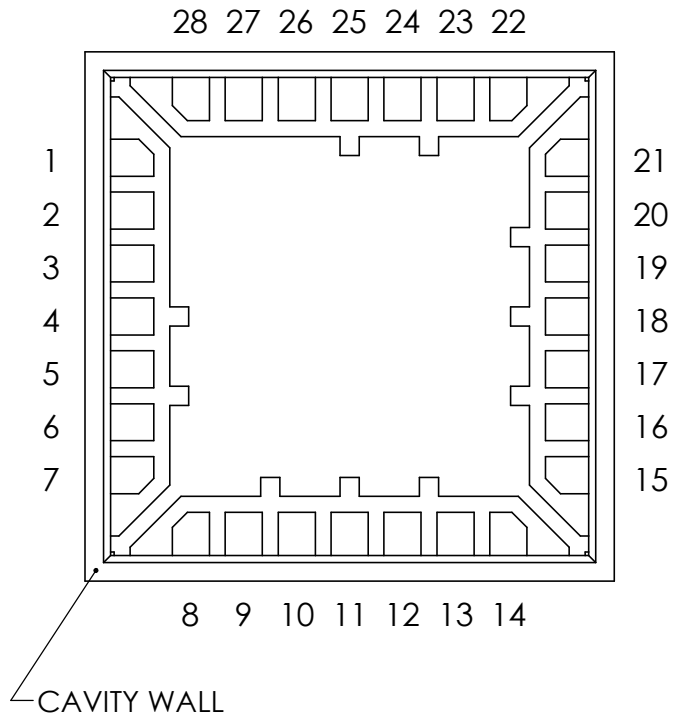


- Notes: (Unless Otherwise Specified)
- 1) BODY; PLASTIC, SEMICONDUCTOR GRADE
 - 2) LEAD FRAME: COPPER, C-194F/H
 - 3) LEAD FRAME PLATING: Ni, Pd, Au
 - 4) FRAME THICKNESS: 0.203mm
 - 5) DIE PAD: 3.40 X 3.40mm
 - 6) JEDEC OUTLINE: MO-220

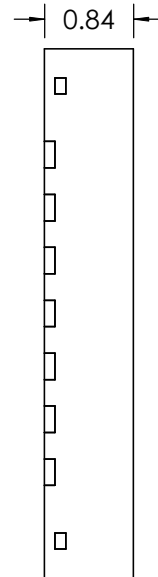


TOLERANCES UNLESS NOTED		APPROVALS		DATE	Mirror Semiconductor <small>www.MirrorSemi.com</small>			
X.X	± 0.05	DRAWN	EDK	2/15/2012				
X.XX	± 0.01	CHECKED						
X.XXX	± 0.005	ENG APPR.						
X.XXXX	± 0.0005	MFG APPR.						
ALL DIMENSIONS IN					Q.A.			
<input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS					CUST.			
THIRD ANGLE PROJECTION 					REVISED			
		SCALE	SIZE	DWG. NO.	REV			
		14:1	A	452870 M-QFN28W.5	A			
DO NOT SCALE DRAWING							SHEET 1 OF 4	

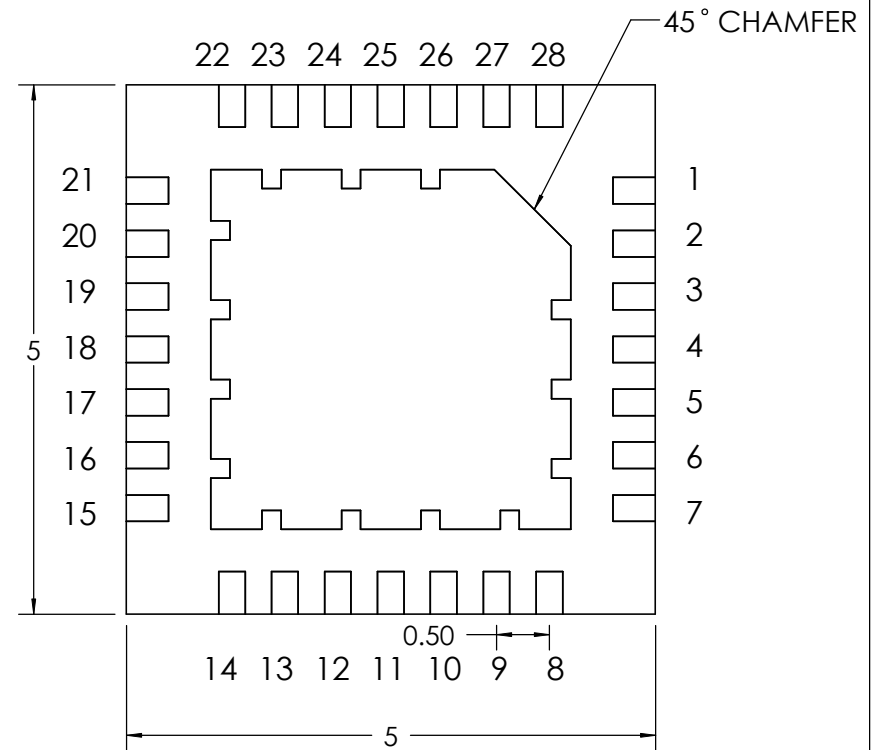
TOP VIEW



SIDE VIEW
(BEFORE LID ATTACH)

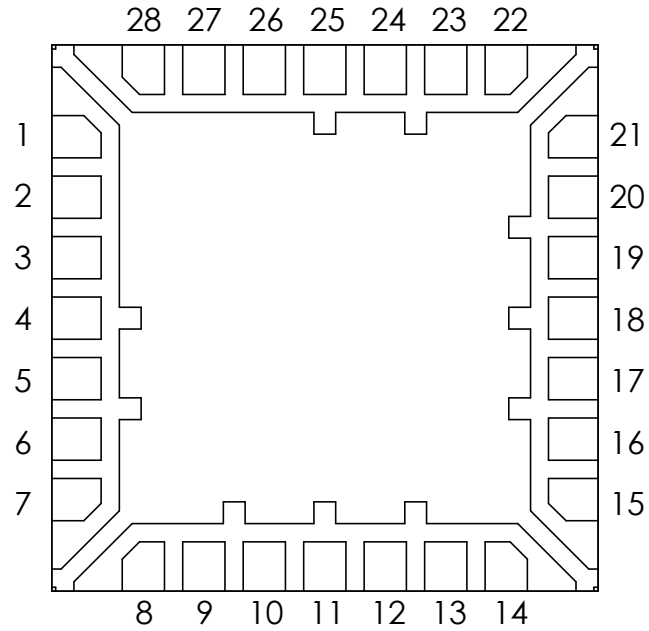


BOTTOM VIEW



Mirror Semiconductor www.MirroSemi.com			
TITLE: 28-LEAD 5mm P=0.50mm QFN CAVITY PACKAGE LEAD NUMBERING			
SCALE 14:1	SIZE A	DWG. NO. 452870 M-QFN28W.5	REV A
DO NOT SCALE DRAWING			SHEET 2 OF 4

BOND DIAGRAM



Mirror Semiconductor

www.MirrorSemi.com

TITLE:

28-LEAD 5mm P=0.50mm
QFN CAVITY PACKAGE
BOND DIAGRAM

SCALE

16:1

SIZE

A

DWG. NO.

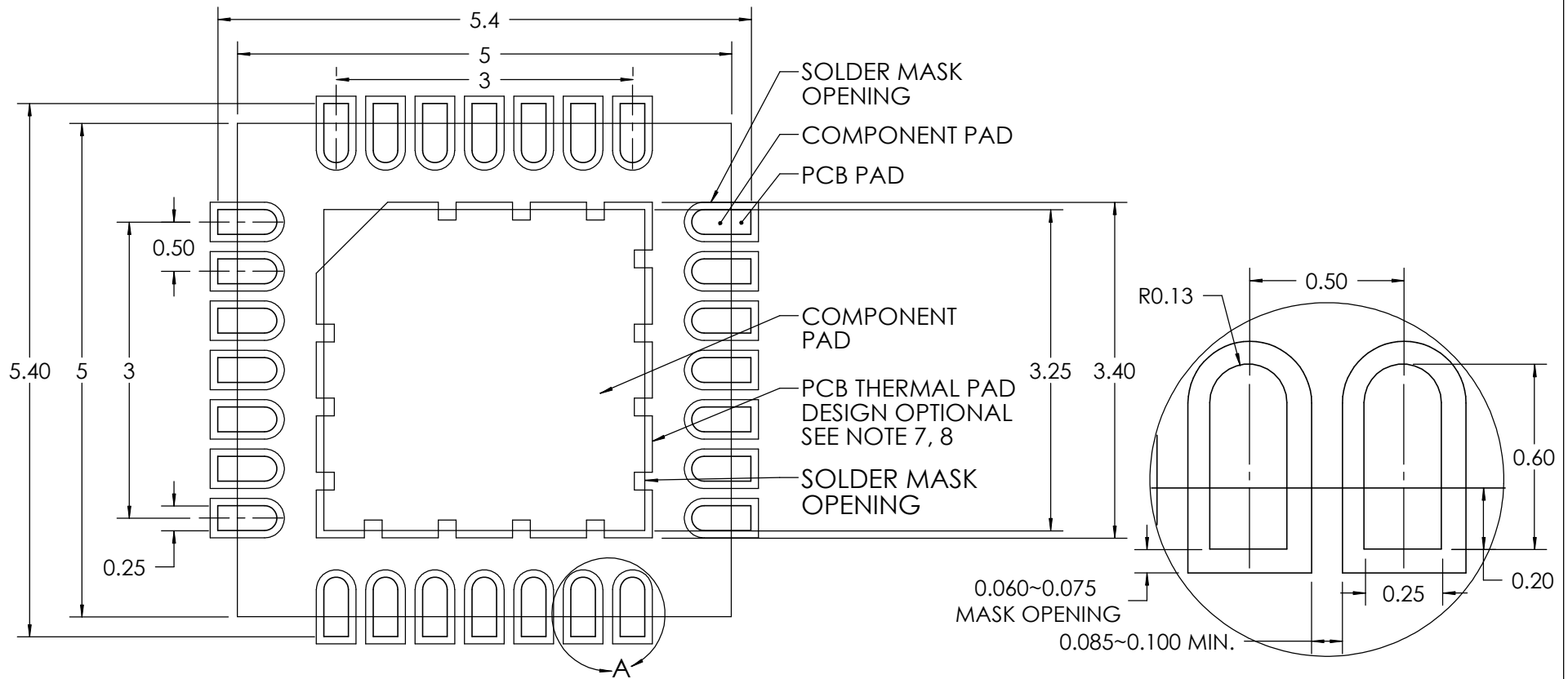
**452870
M-QFN28W.5**

REV

A

DO NOT SCALE DRAWING

SHEET 3 OF 4



DETAIL A
SCALE 50 : 1

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 (2.4~3.0mils) NSMD SOLDER MASK OPENING. 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 WIDTH OF 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 (18 μ m).
 - D. TENT (COVER) THERMAL VIAS WITH SOLDER MASK 0.1mm LARGER THAN 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 PAD AREA.

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TITLE: 28-LEAD 5mm P=0.50mm
QFN CAVITY PACKAGE
RECOMMENDED PCB
LAYOUT

SCALE	SIZE	DWG. NO.	REV
16:1	A	452870 M-QFN28W.5	A

DO NOT SCALE DRAWING SHEET 4 OF 4