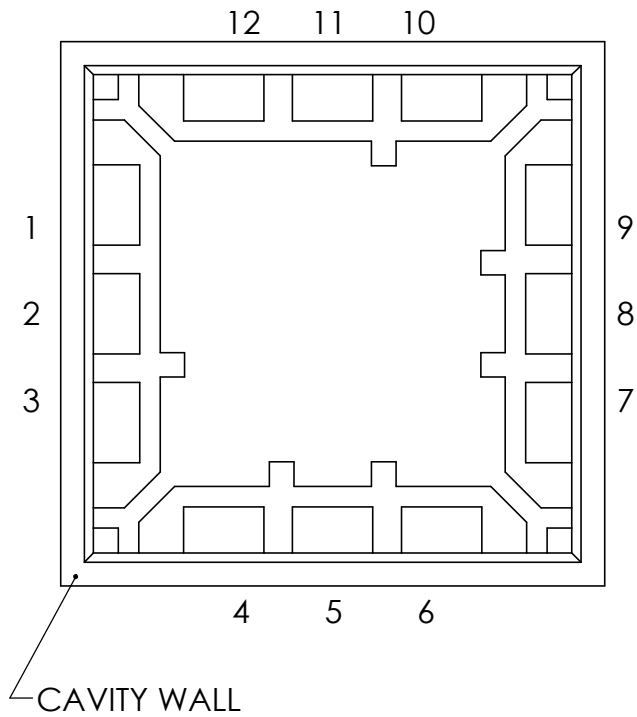


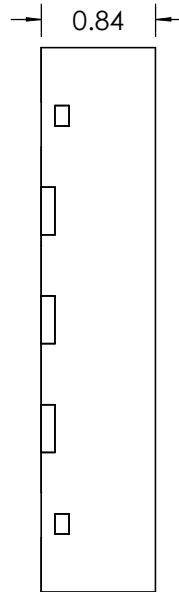
- Notes: (Unless Otherwise Specified)
 1) BODY; PLASTIC, SEMICONDUCTOR GRADE
 2) LEAD FRAME: COPPER, C-194F/H
 3) LEAD FRAME PLATING: Ni, Pd, Au
 4) FRAME THICKNESS: 0.203mm
 5) DIE PAD: 2.54 X 2.54mm
 6) JEDEC OUTLINE: MO-220

TOLERANCES UNLESS NOTED		APPROVALS		DATE	Mirror Semiconductor www.MirrorSemi.com TITLE: 12-LEAD 4mm P=0.80mm QFN CAVITY PACKAGE			
X.X	± 0.05	DRAWN	EDK	3/21/2012				
X.XX	± 0.01	CHECKED						
X.XXX	± 0.005	ENG APPR.						
X.XXXX	± 0.0005	MFG APPR.						
ALL DIMENSIONS IN		Q.A.			SCALE	SIZE	DWG. NO.	REV
□ INCHES ✕ MILLIMETERS		CUST.						
THIRD ANGLE PROJECTION		REVISED			DO NOT SCALE DRAWING		SHEET 1 OF 4	

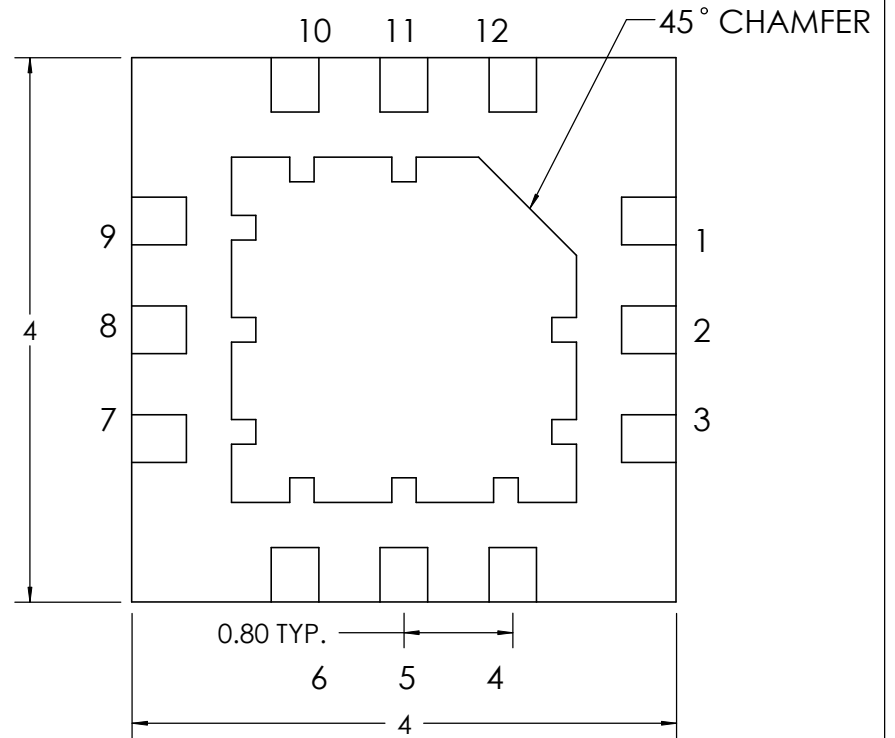
TOP VIEW



SIDE VIEW
(BEFORE LID ATTACH)



BOTTOM VIEW



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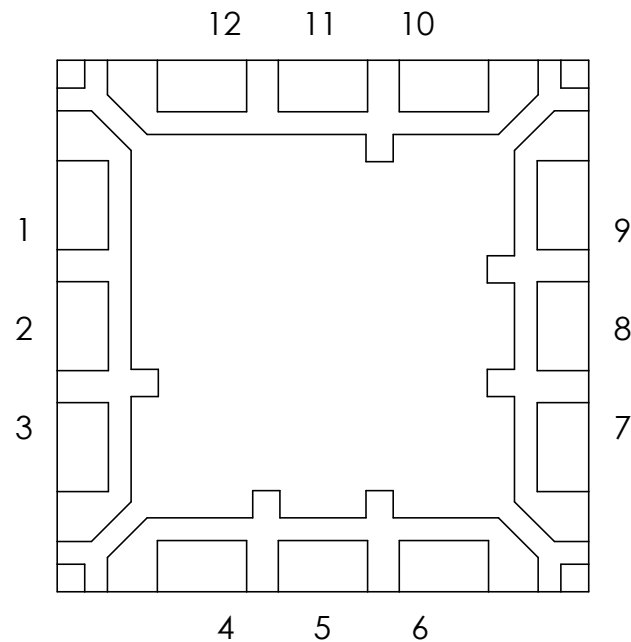
TITLE:

12-LEAD 4mm P=0.80mm
QFN CAVITY PACKAGE
LEAD NUMBERING

SCALE 18:1	SIZE A	DWG. NO. 481270 M-QFN12W.8	REV A
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DO NOT SCALE DRAWING SHEET 2 OF 4

BOND DIAGRAM



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TITLE:

12-LEAD 4mm P=0.80mm
QFN CAVITY PACKAGE
BOND DIAGRAM

SCALE
20:1

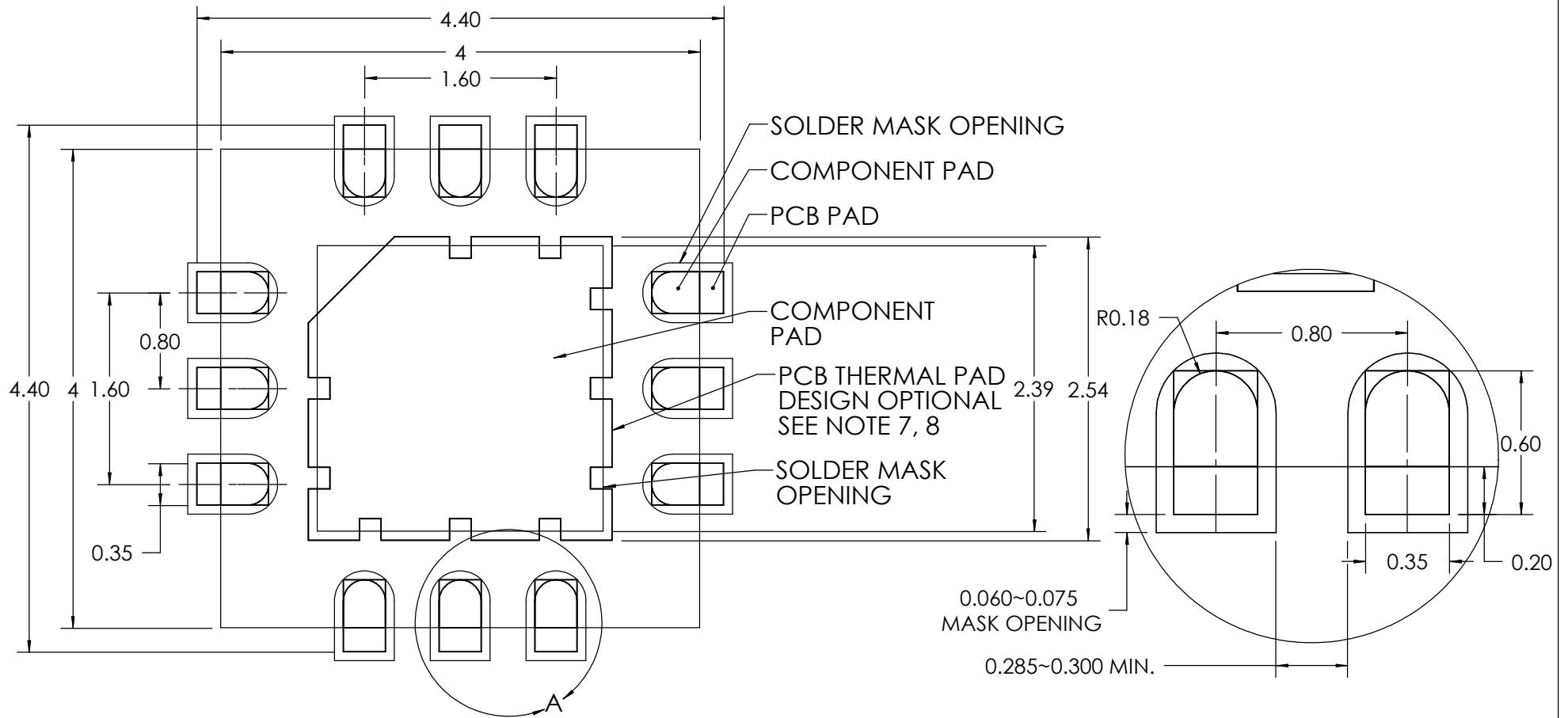
SIZE
A

DWG. NO.
481270
M-QFN12W.8

REV
A

DO NOT SCALE DRAWING

SHEET 3 OF 4



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 (18µm).
 - 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.

DETAIL A
SCALE 40 : 1

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TITLE: 12-LEAD 4mm P=0.80mm
QFN CAVITY PACKAGE
RECOMMENDED PCB
LAYOUT

SCALE	SIZE	DWG. NO.	REV
20:1	A	481270 M-QFN12W.8	A

DO NOT SCALE DRAWING

SHEET 4 OF 4