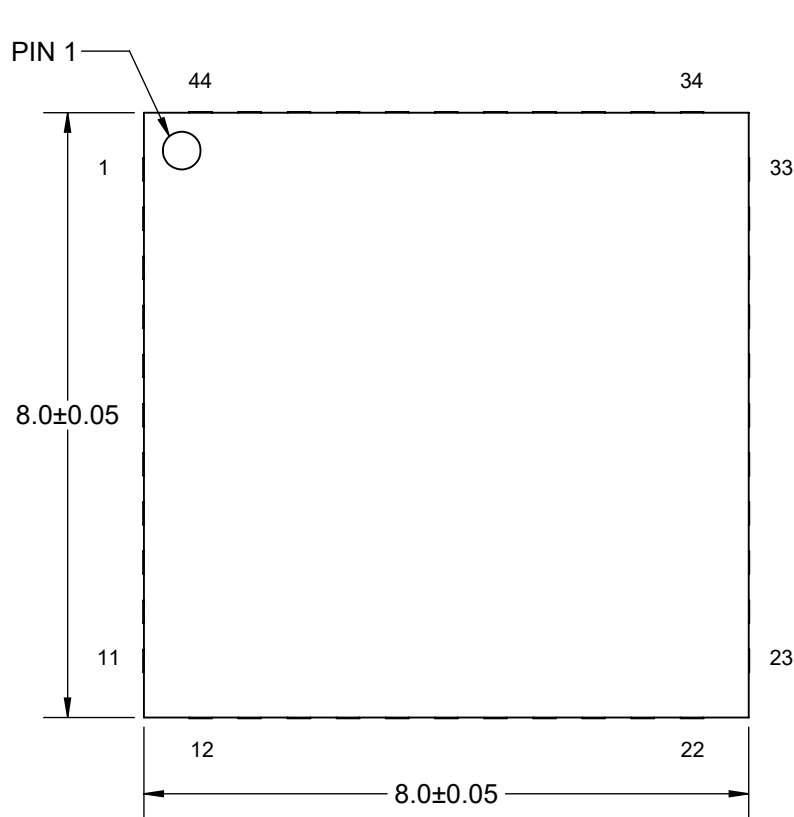
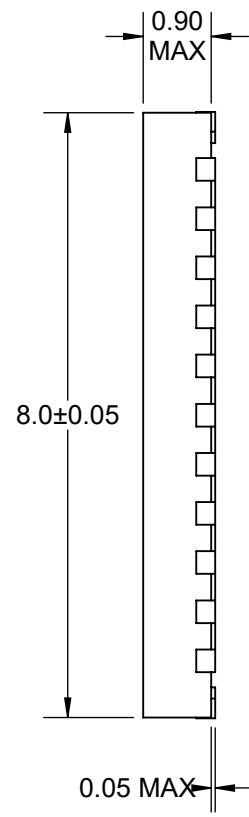


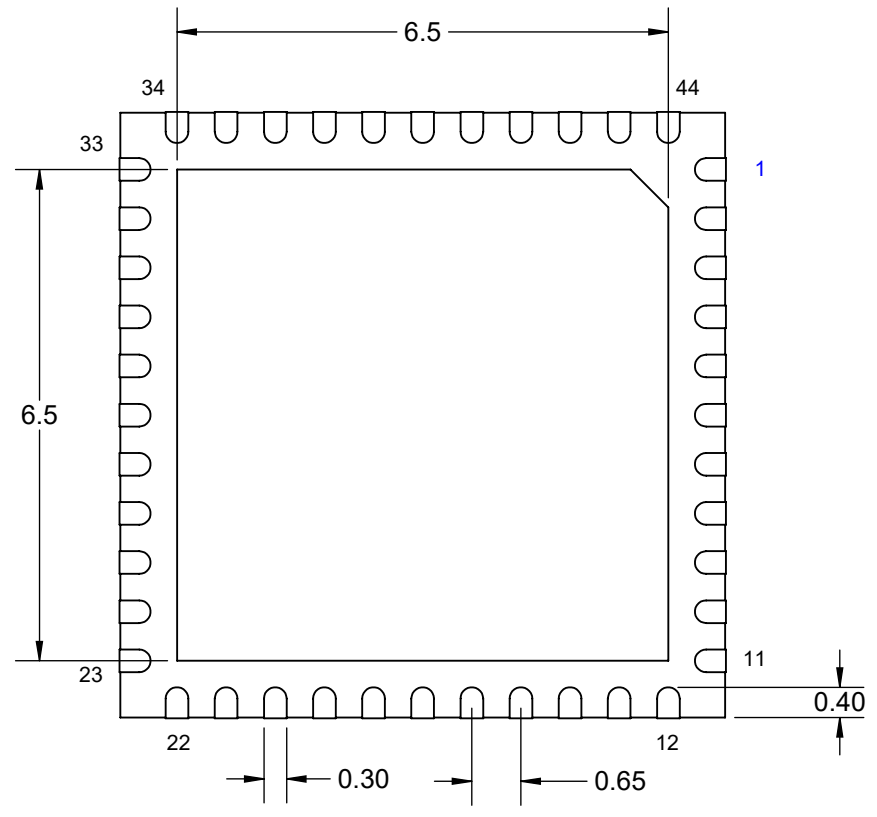
TOP VIEW



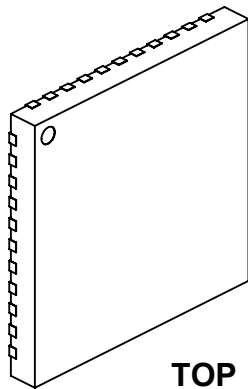
SIDE VIEW



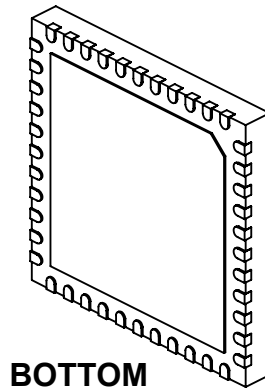
BOTTOM VIEW



MODEL



TOP



BOTTOM

Notes: (Unless Otherwise Specified).

- 1) BODY: PLASTIC, SEMICONDUCTOR GRADE.
- 2) LEAD FRAME: COPPER, C-194 F/H.
- 3) LEAD FRAME PLATING: Ni Pd Au.
- 4) FRAME THICKNESS: 0.203mm.
- 5) DIE PAD: 6.5 x 6.5mm EXPOSED BOTTOM.
- 6) JEDEC OUTLINE: MO-220.
- 7) DIMENSIONS mm.

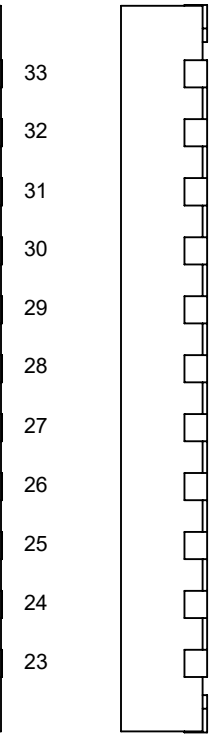
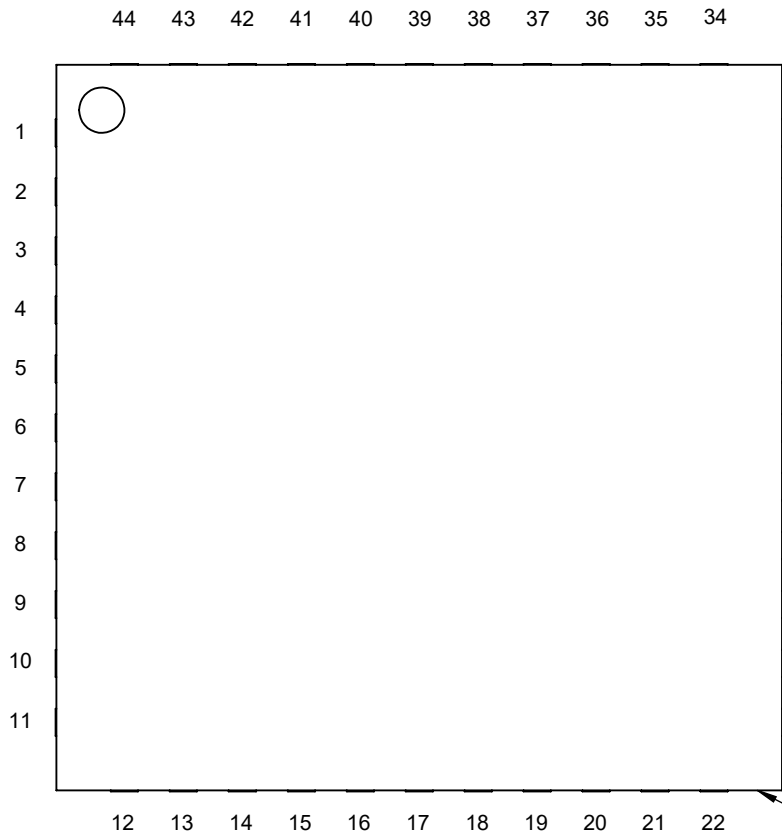
APPROVALS	DATE	TopLine		
DRAWN T. Au	5/10/2020			
ENG M. Hart	5/10/2020	TITLE 44-LEAD 8mm P0.65mm QFN DAISY CHAIN		
MFG		SCALE 12:1	SIZE A	DRAWING NO. 464440
QA				REV A
CUST		DO NOT SCALE DRAWING		SHEET 1 OF 5
REVISED				

PAD PATTERN

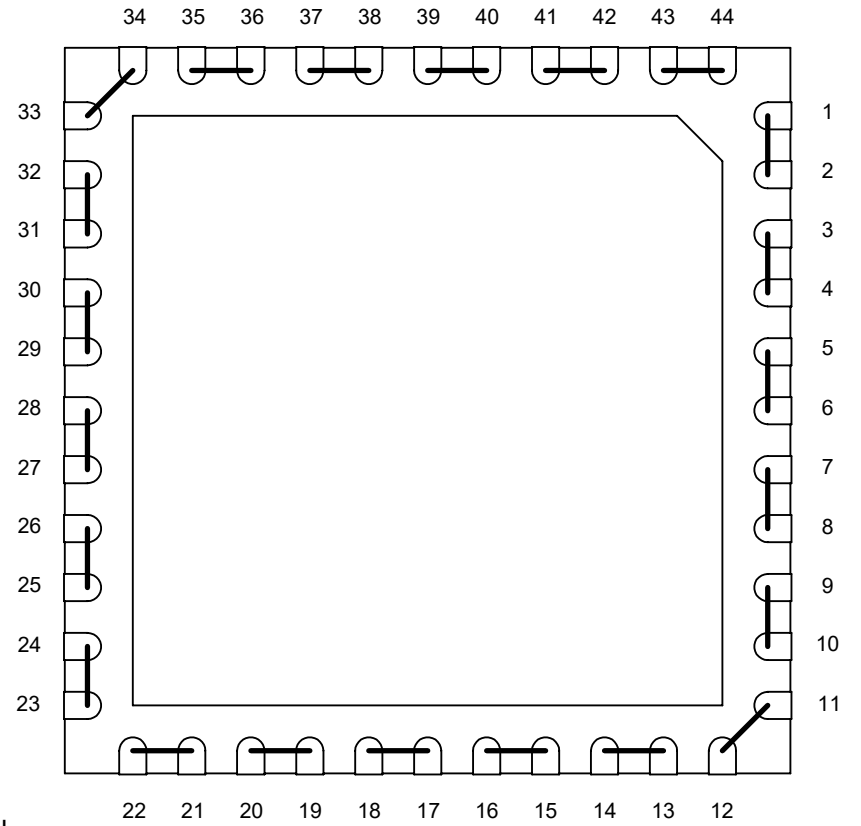
TOP VIEW

SIDE VIEW

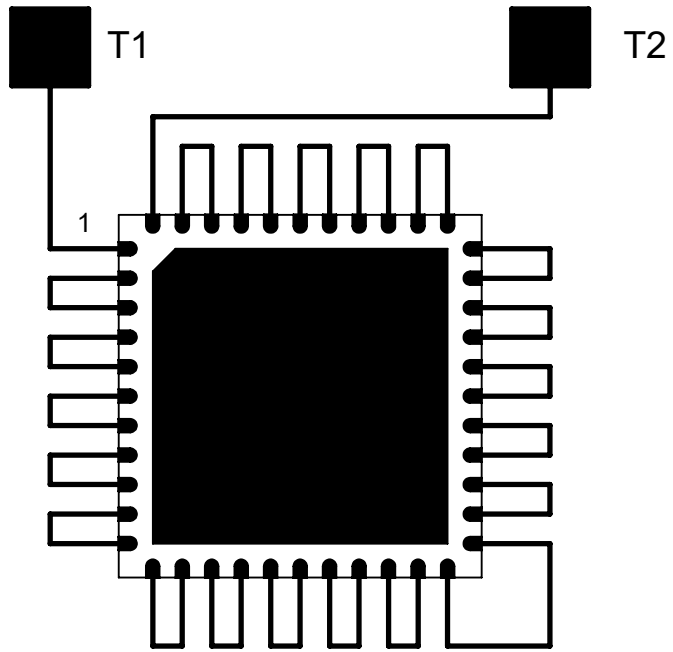
BOTTOM VIEW



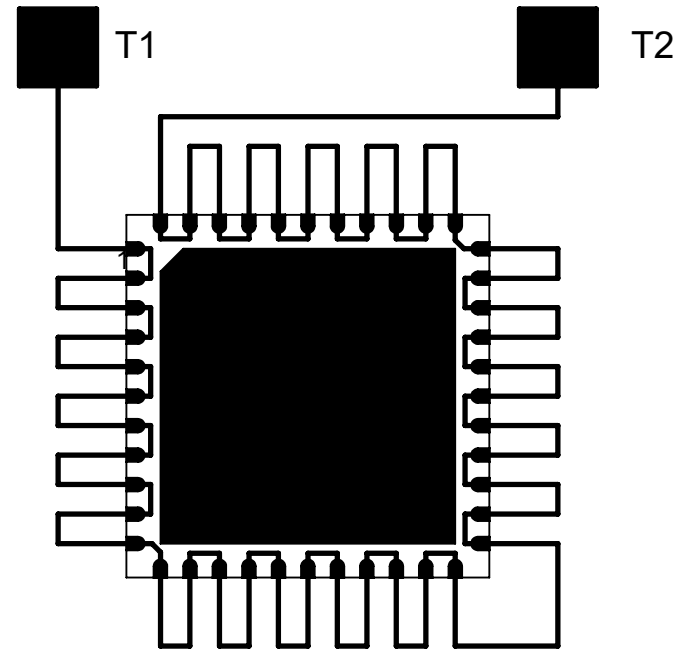
TOP SIDE
ENCAPSULATION



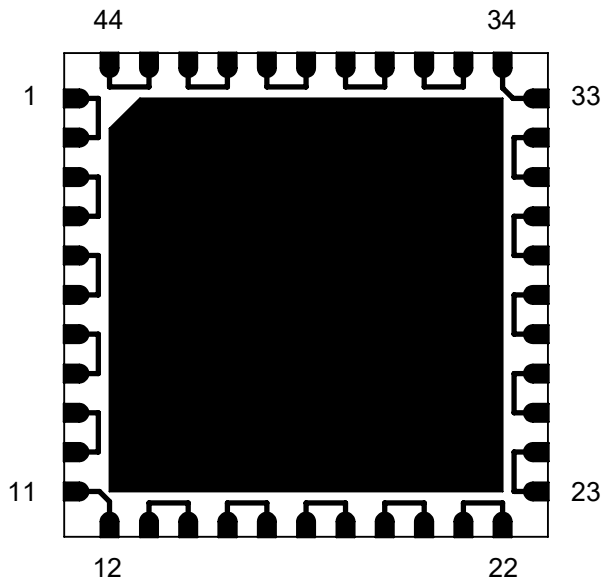
TopLine®			
TITLE 44-LEAD 8mm P0.65mm QFN DAISY CHAIN			
SCALE	SIZE	DRAWING NO.	REV
12:1	A	464440	A
DO NOT SCALE DRAWING			SHEET 2 OF 5



**RECOMMENDED
PCB PADS**



**AFTER MOUNTING
ON PCB**

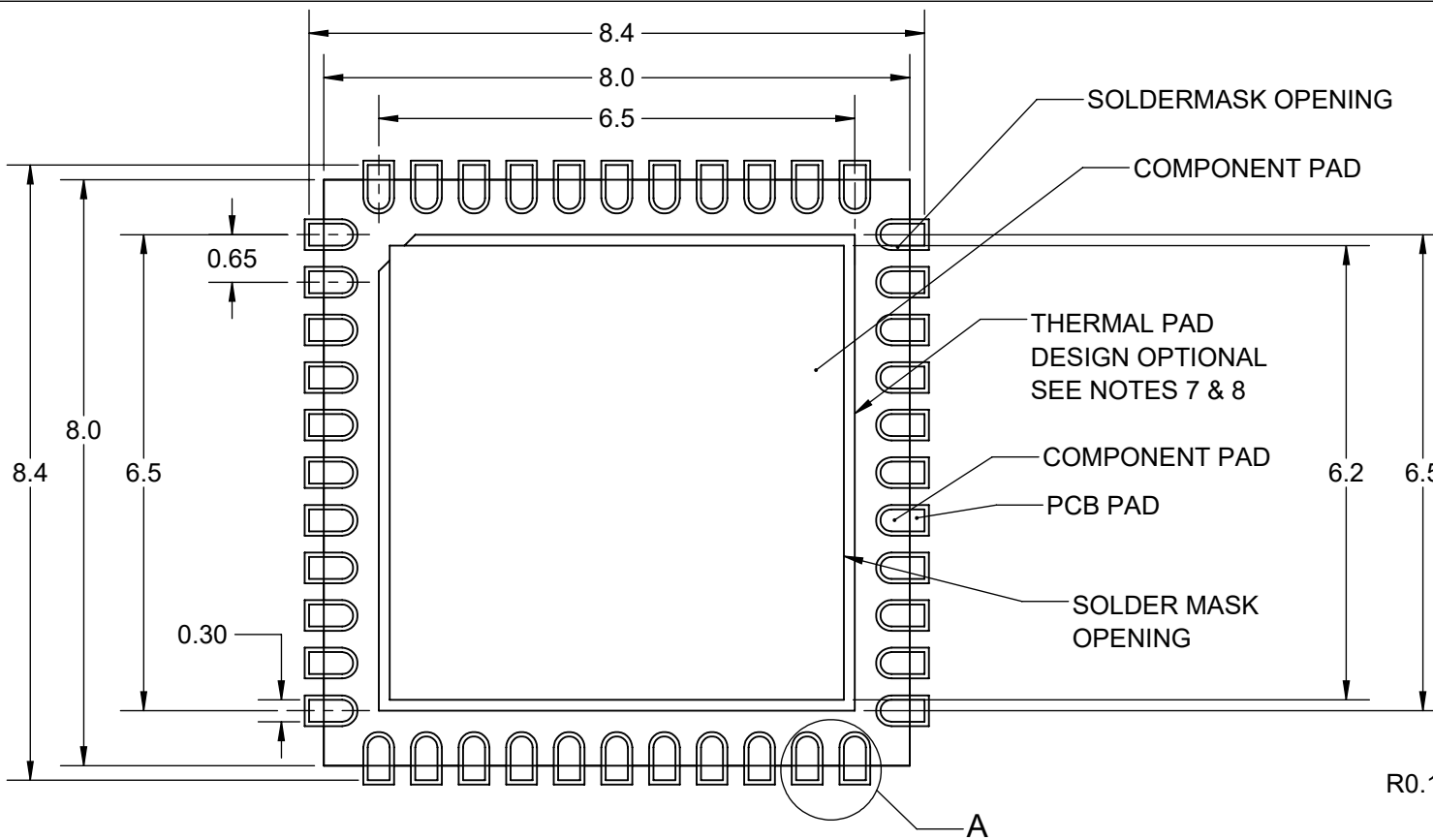


QFN

DAISY CHAIN NET LIST		
PINS	PINS	PINS
1 ~ 2	3 ~ 4	5 ~ 6
7 ~ 8	9 ~ 10	11 ~ 12
13 ~ 14	15 ~ 16	17 ~ 18
19 ~ 20	21 ~ 22	23 ~ 24
25 ~ 26	27 ~ 28	29 ~ 30
31 ~ 32	33 ~ 34	35 ~ 36
37 ~ 38	39 ~ 40	41 ~ 42
43 ~ 44		

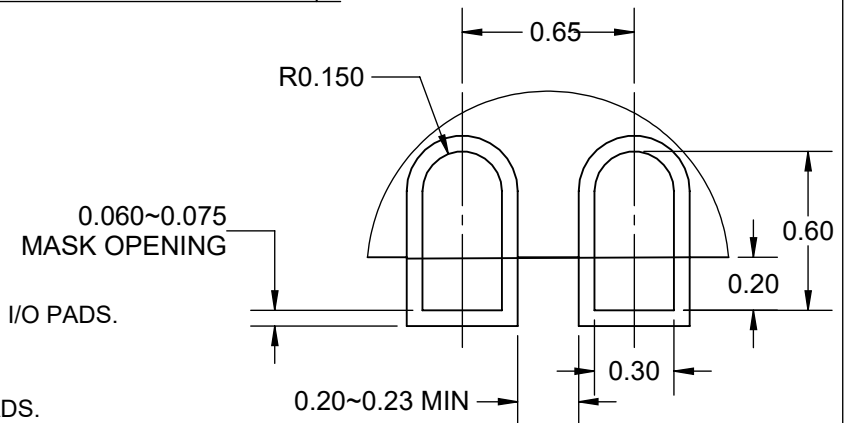
TopLine®			
TITLE 44-LEAD 8mm P0.65mm QFN DAISY CHAIN			
SCALE 6:1	SIZE A	DRAWING NO. 464440	REV A
DO NOT SCALE DRAWING			SHEET 3 OF 5

**PC BOARD LAYOUT
DIMENSIONS IN MM
VIEW FROM TOP**



Notes: (Unless Otherwise Specified).

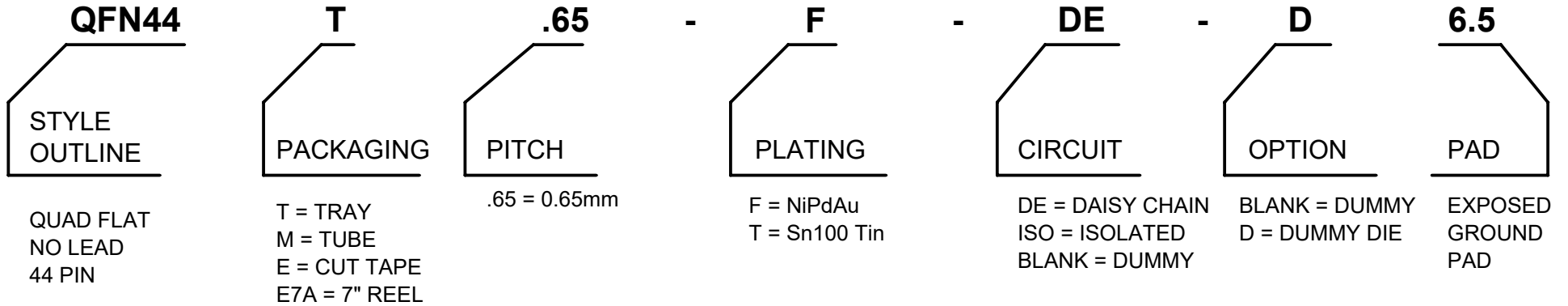
- 1) DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN KNOWLEDGE BASE WHEN DESIGNING THE PCB.
- 2) SURROUND EACH SIDE OF I/O PERIMETER PADS WITH 0.060~0.075mm (NSMD) SOLDER MASK OPENING (2.4~3.0mils) OPTIONALLY OK TO USE RECTANGLE (NSMD) MASK OPENING AROUND I/O PADS.
- 3) ROUNDED 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 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 BARRERS 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 SUIT 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 35 : 1**

TopLine			
TITLE 44-LEAD 8mm P0.65mm QFN DAISY CHAIN			
SCALE 12:1	SIZE A	DRAWING NO. 464440	REV A
DO NOT SCALE DRAWING			SHEET 4 OF 5

PART NUMBERING SYSTEM



PART NUMBER	DAISY CHAIN	PACKAGING	RoHS Pb-FREE	PLATING	DUMMY DIE
QFN44T.65-F-DE-D6.5	YES	JEDEC TRAY	YES	Ni Pd Au	YES
QFN44M.65-F-DE-D6.5	YES	TUBE	YES	Ni Pd Au	YES
QFN44E.65-F-DE-D6.5	YES	TAPE	YES	Ni Pd Au	YES
QFN44T.65-F-ISO	ISOLATED	JEDEC TRAY	YES	Ni Pd Au	NO
QFN44M.65-F-ISO	ISOLATED	TUBE	YES	Ni Pd Au	NO
QFN44E-.65-F-ISO	ISOLATED	TAPE	YES	Ni Pd Au	NO

OTHER PART NUMBER COMBINATIONS AVAILABLE. CONTACT TOPLINE.

TopLine[®]			
TITLE 44-LEAD 8mm P0.65mm QFN DAISY CHAIN			
SCALE NONE	SIZE A	DRAWING NO. 464440	REV A
DO NOT SCALE DRAWING			SHEET 5 OF 5