

PIN #1 ID AND TIE BAR MARK OPTIONS



TITLE:  
PACKAGE OUTLINE,  
32,44,48L QFN, 7x7x0.85mm

APPROVAL

DOCUMENT CONTROL NO.

REV.

21-0092

K

1/2

-DRAWING NOT TO SCALE-


COMMON DIMENSIONS									
PKG	32L 7x7			44L 7x7			48L 7x7		
SYMBOL	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	0.80	0.85	0.90	0.80	0.85	0.90	0.80	0.85	0.90
A1	0.00	0.01	0.05	0.00	0.01	0.05	0.00	0.01	0.05
A2	0.00	0.65	1.00	0.00	0.65	1.00	0.00	0.65	1.00
A3	0.20 REF			0.20 REF			0.20 REF		
b	0.23	0.28	0.35	0.18	0.23	0.30	0.18	0.23	0.30
D	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10
D1	6.75 BSC			6.75 BSC			6.75 BSC		
E	6.90	7.00	7.10	6.90	7.00	7.10	6.90	7.00	7.10
E1	6.75 BSC			6.75 BSC			6.75 BSC		
e	0.65 BSC			0.50 BSC			0.50 BSC		
k	0.25	-	-	0.25	-	-	0.25	-	-
L	0.35	0.55	0.75	0.35	0.55	0.75	0.30	0.40	0.50
N	32			44			48		
Nd	8			11			12		
Ne	8			11			12		
P	0.00	0.42	0.60	0.00	0.42	0.60	0.00	0.42	0.60
θ	0°	-	12°	0°	-	12°	0°	-	12°

EXPOSED PAD VARIATIONS						
PKG. CODES	D2			E2		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
G3277+2	4.55	4.70	4.85	4.55	4.70	4.85
G4477-1	3.65	3.80	3.95	3.65	3.80	3.95
G4477-3	3.15	3.30	3.45	3.15	3.30	3.45
G4877-1	4.95	5.10	5.25	4.95	5.10	5.25

NOTES:

- DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M, -1994.
- DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM (0.012 INCHES MAXIMUM).
- N IS THE NUMBER OF TERMINALS.  
Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &  
Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
- DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.25mm FROM TERMINAL TIP.
- THE PIN #1 IDENTIFIER MUST EXIST ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR INK/LASER MARKED. DETAILS OF PIN #1 IDENTIFIER IS OPTIONAL, BUT MUST BE LOCATED WITHIN ZONE INDICATED.
- EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
- PACKAGE WARPAGE MAX 0.08mm.
- APPLIED FOR EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDED PART OF EXPOSED PAD FROM MEASURING.
- MEETS JEDEC MQ220 EXCEPT DIMENSION "b" MINIMUM.
- APPLY ONLY FOR TERMINAL.
- THIS PACKAGE OUTLINE APPLIES TO PUNCHED QFN (STEPPED SIDES).
- MARKING SHOWN IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
- MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC # 10-0131.
- ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbfFREE (+) PKG. CODES.

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 maxim integrated.			
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