NQFP 44, 7x7
CASE 560BK
ISSUE O

DATE 19 SEP 2008

BOTTOM VIEW

SIDE VIEW

SEATING PLANE

SECTION "C-C"
SCALE: NONE

DETAIL "A" – PIN #1 ID AND TIEBAR MARK FIGURES

STANDARD

TOP VIEW

FOR ODD TERMINAL/SIDE

FOR EVEN TERMINAL/SIDE

TERMINAL TIP

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PITCH VARIATION A

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.80 BSC	
N	3		28	
Nd	3		7	
Ne	3		7	
L		0.50	0.60	0.75
b		0.28	0.33	0.40
D2	4	SEE EXPOSED PAD VARIATION: *		
E2		SEE EXPOSED PAD VARIATION: *		

PITCH VARIATION B

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.65 BSC	
N	3		32	
Nd	3		8	
Ne	3		8	
L		0.50	0.60	0.75
b		0.23	0.28	0.35
D2	4	SEE EXPOSED PAD VARIATION: D,F		
E2		SEE EXPOSED PAD VARIATION: D,F		

PITCH VARIATION C

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.50 BSC	
N	3		44	
Nd	3		11	
Ne	3		11	
L		0.50	0.60	0.75
b		0.18	0.23	0.30
D2	4	SEE EXPOSED PAD VARIATION:A,B,D,F		
E2		SEE EXPOSED PAD VARIATION:A,B,D,F		

PITCH VARIATION C

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.50 BSC	
N	3		44	
Nd	3		11	
Ne	3		11	
L		0.30	0.40	0.50
b		0.18	0.23	0.30
D2	4	SEE EXPOSED PAD VARIATION: H		
E2		SEE EXPOSED PAD VARIATION: H		

* NOT DESIGNED YET
** DESIGNED BUT NOT TOOLED UP

PITCH VARIATION D

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.50 BSC	
N	3		48	
Nd	3		12	
Ne	3		12	
L		0.30	0.40	0.50
b		0.18	0.23	0.30
D2	4	SEE EXPOSED PAD VARIATION:C,F,G,H		
E2		SEE EXPOSED PAD VARIATION:C,F,G,H		

PITCH VARIATION E

SYMBOL	NOTE	MIN.	NOM.	MAX.
e			0.40 BSC	
N	3		56	
Nd	3		14	
Ne	3		14	
L		0.30	0.40	0.50
b		0.15	0.20	0.25
D2	4,12	SEE EXPOSED PAD VARIATION: F		
E2		SEE EXPOSED PAD VARIATION: F		

COMMON DIMENSIONS

SYMBOL	MIN.	NOM.	MAX.	NOTE
A	0.80	0.85	0.90	
A1	0.00	0.01	0.05	
A2	0.60	0.65	0.70	10
A3		0.20 REF.		
D		7.00 BSC		
D1		6.75 BSC		
E		7.00 BSC		
E1		6.75 BSC		
θ	0	—	12°	
P	0.24	0.42	0.60	
Q	0.30	0.40	0.65	8,11
R	0.13	0.17	0.23	8,11

<STANDARD>

EXPOSED PAD VARIATIONS

SYMBOLS	D2 MIN	D2 NOM	D2 MAX	E2 MIN	E2 NOM	E2 MAX	NOTE
A	3.20	3.30	3.40	3.20	3.30	3.40	
B	3.70	3.80	3.90	3.70	3.80	3.90	
C	4.00	4.10	4.20	4.00	4.10	4.20	
D	4.60	4.70	4.80	4.60	4.70	4.80	
E	4.80	4.90	5.00	4.80	4.90	5.00	
F	5.00	5.10	5.20	5.00	5.10	5.20	
G	5.20	5.30	5.40	5.20	5.30	5.40	
H	5.40	5.50	5.60	5.40	5.50	5.60	

GENERAL ; NOMINAL EXPOSED PAD(D2/E2) DIMENSION = NOMINAL DIE ATTACH PAD DIMENSION−0.20

NOMINAL DIE ATTACH PAD DIMENSION
NOMINAL EXPOSED PAD(D2/E2) DIMENSION
0.10
0.10
<DIE ATTACH PAD X−SECTION VIEW>

NOTE:
ABOVE GENERAL CORRELATION BETWEEN NOMINAL EXPOSED PAD DIMENSION AND NOMINAL DIE ATTACH PAD DIMENSION MAY BE APPLICABLE FOR AMKOR PACKAGE ONLY. OTHER SUBCONS MAY FOLLOW DIFFERENT CORRELATION RULE FOR PACKAGE.

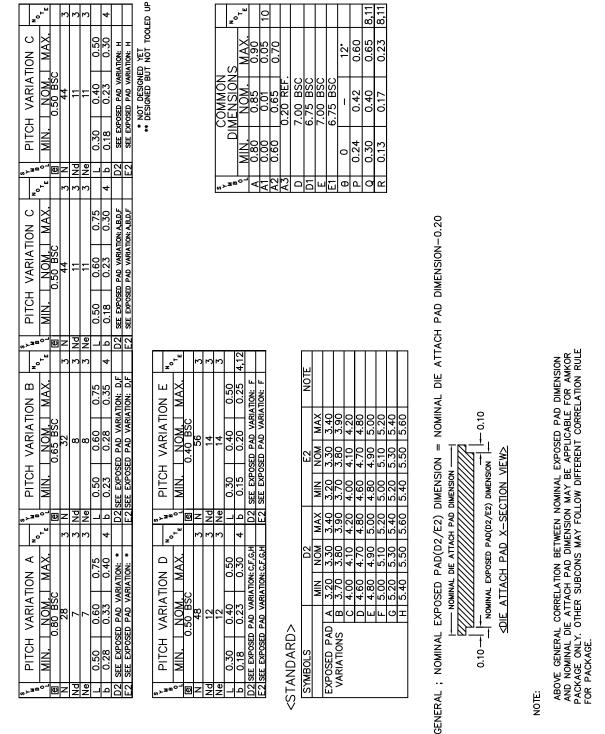| DOCUMENT NUMBER:	98AON34930E	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
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NOTES:
1. DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM(.012 INCHES MAXIMUM)
2. DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M. — 1994.
3. N IS THE NUMBER OF TERMINALS.
   Nd IS THE NUMBER OF TERMINALS IN X—DIRECTION &
   Ne IS THE NUMBER OF TERMINALS IN Y—DIRECTION.
4. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED
   BETWEEN 0.15 AND 0.30mm FROM TERMINAL TIP.
5. THE PIN #1 IDENTIFIER MUST BE EXISTED ON THE TOP SURFACE OF THE
   PACKAGE BY USING INDENTATION MARK OR OTHER FEATURE OF PACKAGE BODY.
6. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
7. ALL DIMENSIONS ARE IN MILLIMETERS.
8. THE SHAPE SHOWN ON FOUR CORNERS ARE NOT ACTUAL I/O.
9. BILATERAL COPLANARITY ZONE APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.
10. APPLIED ONLY FOR TERMINALS.
11. Q AND R APPLIES ONLY FOR STRAGHT TIEBAR SHAPES.
12. FOR 0.40mm LEAD PITCH, THE LEAD POSITION TOLERANCE MUST BE 0.07mm
    AT THE ACTUAL MEAN VALUE OF BODY SIZE.
13. REFERENCE ANAM 45277, VERSION 14

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