

**TITLE:**  
 PDD for 64 QFN(9X9)MM,  
 0.5MM PITCH\_AMKDR

**DATE:** 05/12/08  
**DOCUMENT NO.:** SL/PDD-00008

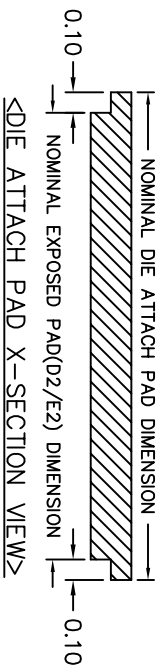
**REV.:** A  
**SHEET:** 1 OF 4

SPECTRAL IMAGE, INC.  
 2500 LABELWOOD  
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 TEL: 408-895-0555  
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SYMBOL	PITCH VARIATION D			N <sub>OT E</sub>
	MIN.	NOM.	MAX.	
$\ominus$	0.50 BSC			
N	64			3
Nd	16			3
N $\theta$	16			3
L	0.30	0.40	0.50	
b	0.18	0.23	0.30	4
D2	4.60	4.70	4.80	
E2	4.60	4.70	4.80	

SYMBOL	COMMON DIMENSIONS			N <sub>OT E</sub>
	MIN.	NOM.	MAX.	
A	0.80	0.85	0.90	
A1	0.00	0.01	0.05	10
A2	0.60	0.65	0.70	
A3	0.20 REF.			
D	9.00 BSC			
D1	8.75 BSC			
E	9.00 BSC			
E1	8.75 BSC			
$\theta$	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

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



SPECTRALINEAR, INC.  
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TITLE:  
POD for 64 QFN(9X9)MM,  
0.5MM PITCH\_AMKOR

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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.



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# Document History Page

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Document Number: SL/POD-00008 Rev. A

<b>Rev.</b>	<b>ECR No.</b>	<b>Date</b>	<b>Orig. of Change</b>	<b>Description of Change</b>
A	ECR_581	5/12/2008	RP	NEW RELEASE for AMKOR