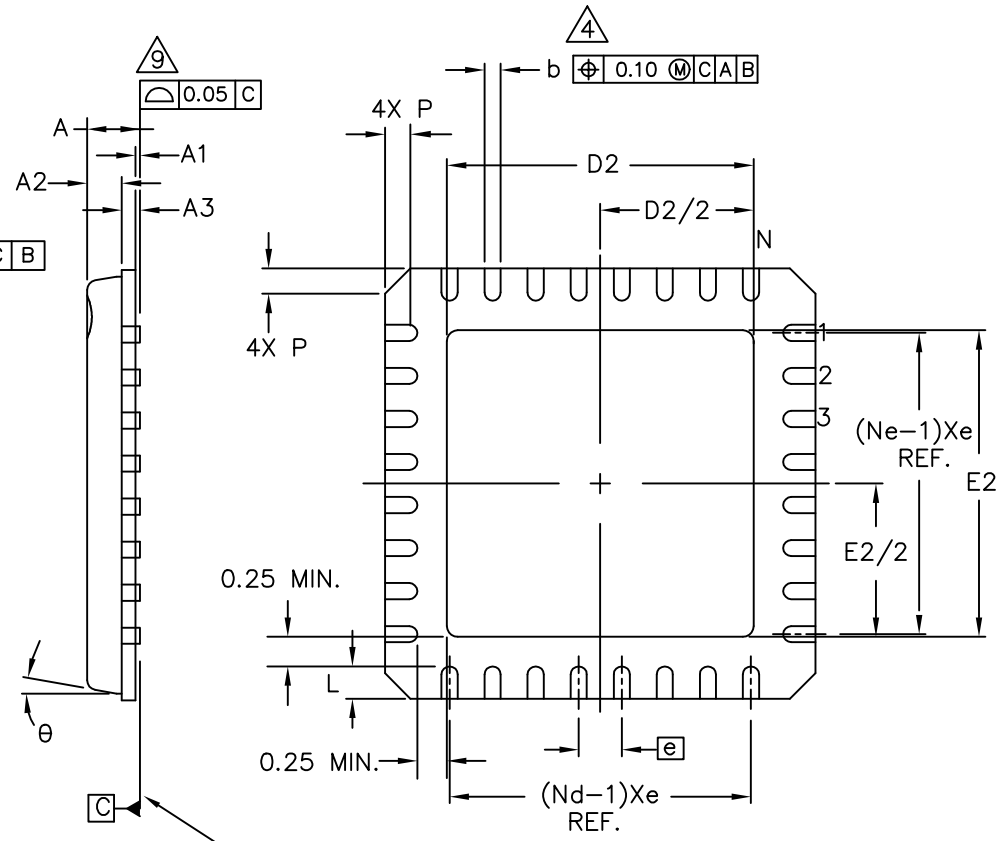
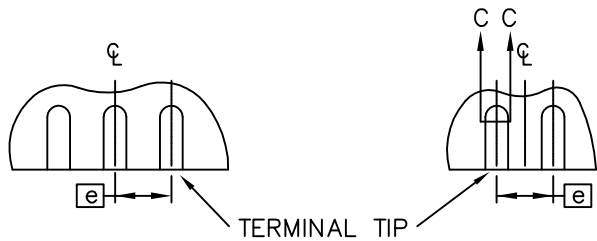


TOP VIEW

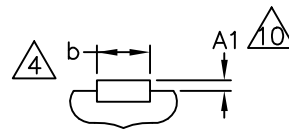


SIDE VIEW

BOTTOM VIEW



FOR ODD TERMINAL/SIDE    FOR EVEN TERMINAL/SIDE



SECTION "C-C"  
SCALE: NONE


PROPRIETARY INFORMATION		
TITLE: <b>PACKAGE OUTLINE, 52, 56L QFN, 8x8x0.90 MM</b>		
APPROVAL	DOCUMENT CONTROL NO. <b>21-0129</b>	REV. <b>B</b> $\frac{1}{2}$

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 0.20 AND 0.25mm FROM TERMINAL TIP.
5. THE PIN #1 IDENTIFIER MUST BE LOCATED ON THE TOP SURFACE OF THE PACKAGE. EITHER AN INDENTATION MARK OR INK/LASER MARK IS ACCEPTABLE.
6. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
7. ALL DIMENSIONS ARE IN MILLIMETERS.
8. PACKAGE WARPAGE MAX 0.05mm.
9. APPLIED FOR EXPOSED PAD AND TERMINALS.  
EXCLUDE EMBEDDING PART OF EXPOSED PAD FROM MEASURING.
10. MEETS JEDEC MO220.
11. THIS PACKAGE OUTLINE APPLIES TO ANVIL SINGULATION (STEPPED SIDES) AND TO SAW SINGULATION (STRAIGHT SIDES) QFN STYLES.

SYMBOL	COMMON DIMENSIONS			NOTE
	MIN.	NOM.	MAX.	
A	0.80	0.90	1.00	
A1	0.00	0.01	0.05	
A2	0.00	0.65	1.00	
A3	0.20 REF.			
D	8.00 BSC			
D1	7.75 BSC			
E	8.00 BSC			
E1	7.75 BSC			
θ	0°		12°	
P	0		0.60	
D2	2.25		6.25	
E2	2.25		6.25	

SYMBOL	PITCH VARIATION C			NOTE	SYMBOL	PITCH VARIATION D			NOTE
	MIN.	NOM.	MAX.			MIN.	NOM.	MAX.	
Ⓢ	0.50 BSC				Ⓢ	0.50 BSC			
N	52			3	N	56			3
Nd	13			3	Nd	14			3
Ne	13			3	Ne	14			3
L	0.35	0.55	0.75		L	0.30	0.40	0.50	
b	0.18	0.23	0.30	4	b	0.18	0.23	0.30	4

 			
PROPRIETARY INFORMATION			
TITLE: PACKAGE OUTLINE, 52, 56L QFN, 8x8x0.90 MM			
APPROVAL	DOCUMENT CONTROL NO. 21-0129	REV. B	2/2