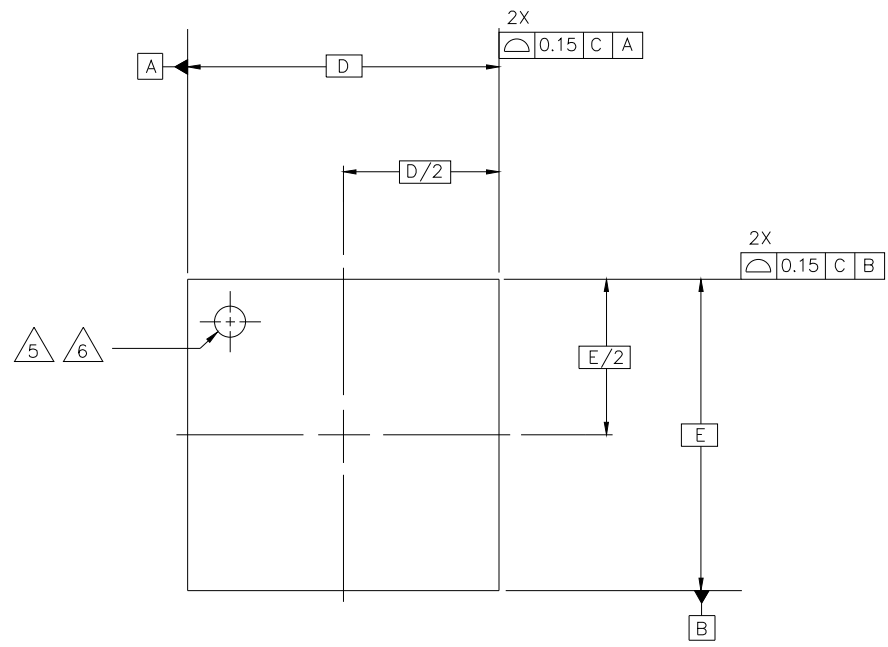
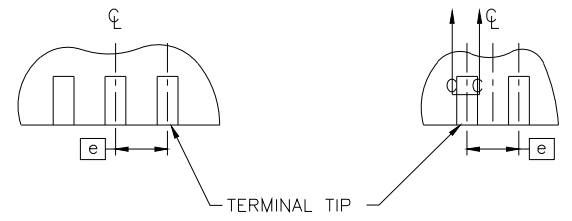


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADDED SAW VERSION	07/10/03	PKP
02	DELETED PUNCHED VERSION	01/07/04	PKP
03	ADD*GREEN NLG NOMENCLATURE	10/08/04	TU VU
04	AD DIM E2 & D2 FOR 28 LD	3/18/09	J.SHAH
05	ADD EPAD OPTION	11/29/12	RC
06	COMBINE POD & LAND PATTERN	08/1/13	KS
07	LOWER P2 MIN VALUE TO MATCH JEDEC	5/15/14	J.HUA
08	ADDED EPAD OPTION	2/26/20	CM
09	ADDED EPAD OPTION	8/11/23	JHUA
10	REMOVE P4 AND ADJUST P2 MIN TO 4.65	9/01/23	JHUA

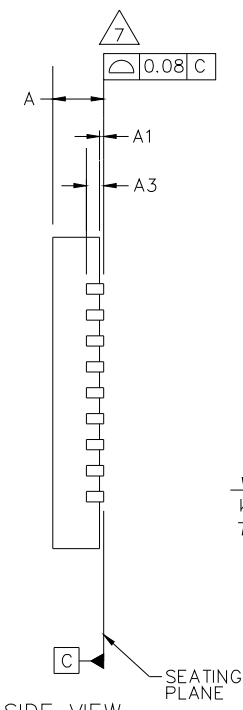


TOP VIEW

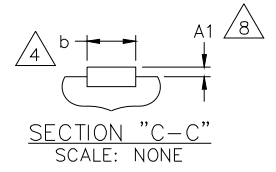


FOR ODD TERMINAL/SIDE

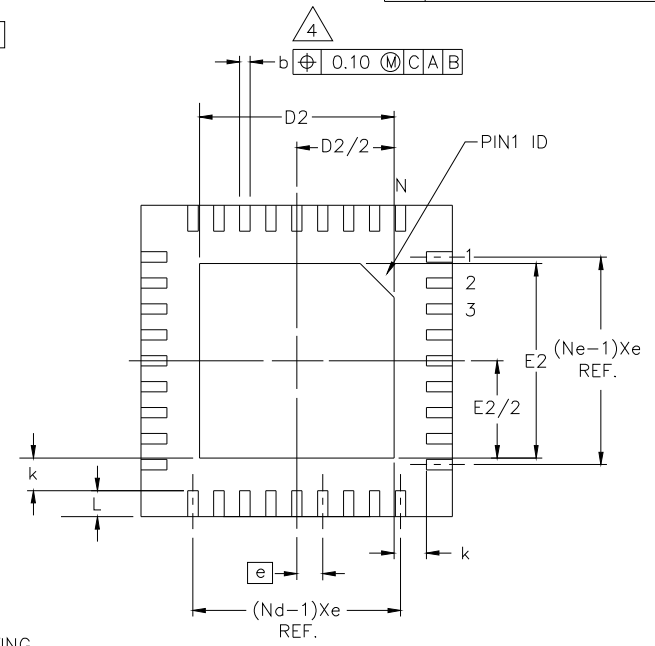
FOR EVEN TERMINAL/SIDE



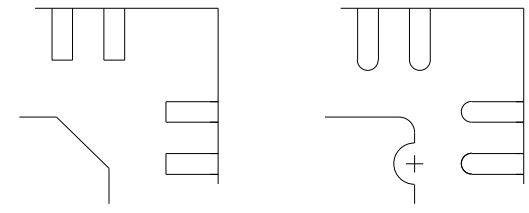
SIDE VIEW



SECTION "C-C"
SCALE: NONE



BOTTOM VIEW



PIN #1 ID AND TIE BAR MARK OPTION

TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR XX± ± XXX± ± XXXX± ±			6024 SILVERCREEK VALLEY ROAD SAN JOSE CA.95138 PHONE: (408) 284-8200 FAX: (408) 284-8591	
			TITLE NL/NLG 40 PACKAGE OUTLINE 6.0 X 6.0 mm BODY VFQFP-N	
SIZE C	DRAWING No. PSC-4115	REV 10		
DO NOT SCALE DRAWING			SHEET 1 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADDED SAW VERSION	07/10/03	PKP
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EPAD OPTION:

SYMBOL	P1			P2			P3		
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
D2	2.80	2.90	3.00	4.55	4.65	4.75	4.40	4.50	4.60
E2	2.80	2.90	3.00	4.55	4.65	4.75	4.40	4.50	4.60

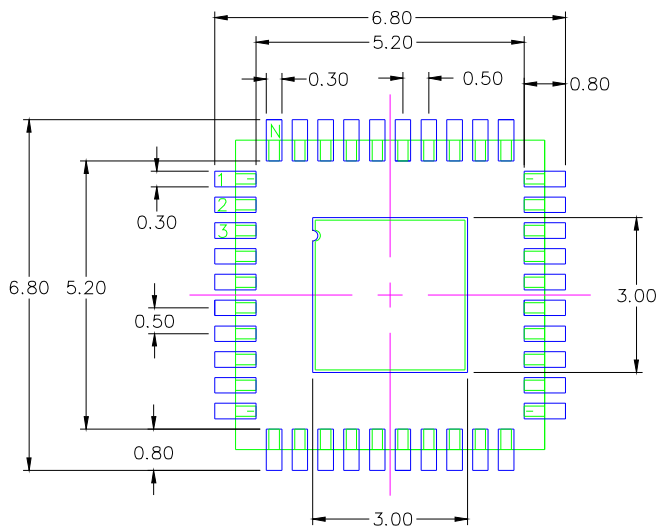
COMMON DIMENSION

SYMBOL	DIMENSION			NOTE
	MIN	NOM	MAX	
b	0.18	0.25	0.30	4
D	6.00 BSC			
E	6.00 BSC			
D2	SEE EPAD OPTION			
E2	SEE EPAD OPTION			
L	0.30	0.40	0.50	
e	0.50 BSC			
N	40			2
A	0.80	0.90	1.00	
A1	0.00	0.02	0.05	7
A3	0.2 REF			
Nd	10			2
Ne	10			2

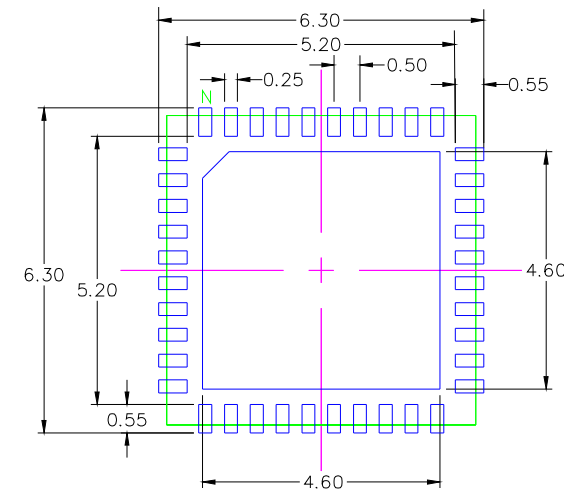
- NOTES:
1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M. – 1994.
 2. N IS THE NUMBER OF TERMINALS.
Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &
Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
 3. ALL DIMENSIONS ARE IN MILLIMETERS.
 4. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.30mm FROM TERMINAL TIP.
 5. THE PIN #1 IDENTIFIER MUST EXIST 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. APPLIED TO EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDED PART OF EXPOSED PAD FROM MEASURING.
 8. APPLIED ONLY FOR TERMINALS.
 9. THIS OUTLINES CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-220, VARIATION VJJC-3 & VJJD-5 WITH THE EXCEPTION OF D2 & E2.

TOLERANCES UNLESS SPECIFIED		 6024 SILVERCREEK VALLEY ROAD SAN JOSE CA. 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591	
DECIMAL	ANGULAR		
XX±	±	TITLE NL/NLG 40 PACKAGE OUTLINE 6.0 X 6.0 mm BODY VFQFP-N	
XXX±			
XXXX±			
SIZE	DRAWING No.	REV	
C	PSC-4115	10	
DO NOT SCALE DRAWING		SHEET 2 OF 3	

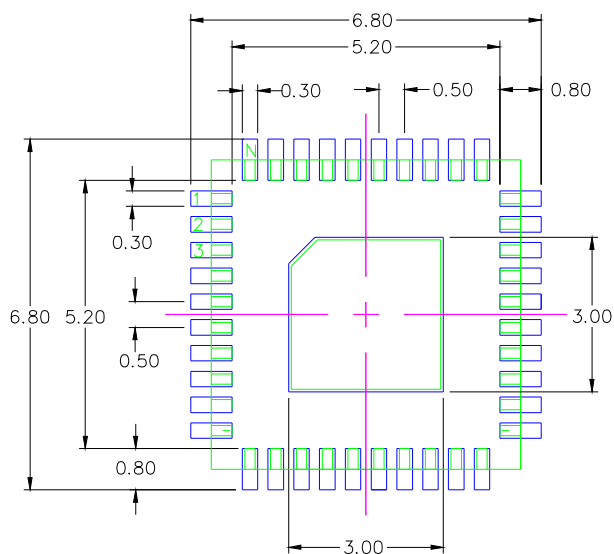
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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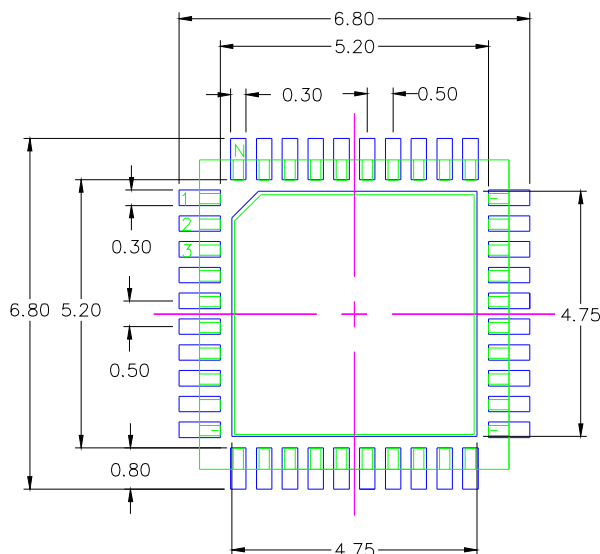
EPAD 2.9mm SQ



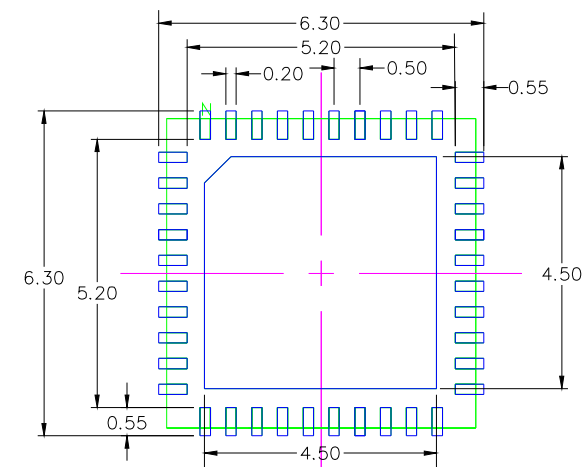
EPAD 4.6mm SQ



EPAD 2.9mm SQ



EPAD 4.65mm SQ



EPAD 4.5mm SQ

NOTES:

1. ALL DIMENSION ARE IN mm. ANGLES IN DEGREES.
2. TOP DOWN VIEW, AS VIEWED ON PCB.
3. COMPONENT OUTLINE SHOW FOR REFERENCE IN GREEN.
4. LAND PATTERN IN BLUE. NSMD PATTERN ASSUMED.
5. LAND PATTERN RECOMMENDATION PER IPC-7351B GENERIC REQUIREMENT FOR SURFACE MOUNT DESIGN AND LAND PATTERN.

TOLERANCES UNLESS SPECIFIED		6024 SILVERCREEK VALLEY ROAD	
DECIMAL	ANGULAR	RENESAS SAN JOSE CA.95138	
XX±	±	PHONE: (408) 284-8200	
XXX±		FAX: (408) 284-8591	
XXXX±		TITLE NL/NLG 40 PACKAGE OUTLINE 6.0 X 6.0 mm BODY VFQFP-N	
SIZE	DRAWING No.	REV	
C	PSC-4115	10	
DO NOT SCALE DRAWING			SHEET 3 OF 3