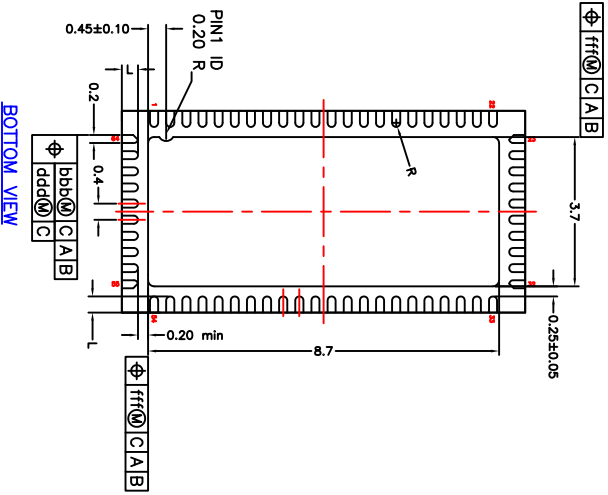
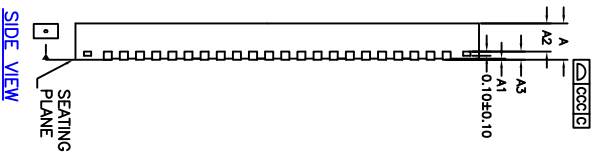
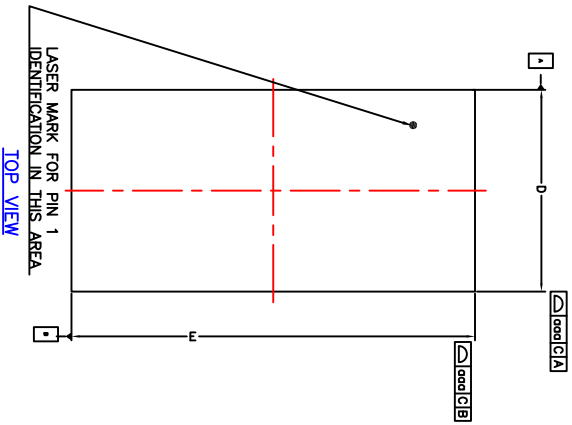


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	04/02/10	DP
01	COMBINE POD & LAND PATTERN	08/8/13	KS
02	ADD NOTE RECOMMENDED LAND PATTERN	2/21/14	JH



TOLERANCES UNLESS SPECIFIED		TITLE NRG64 PACKAGE OUTLINE	
DECIMAL	ANGULAR	10.0 x 5.0 mm BODY QFN	
XX±		0.40 mm Pitch SAWN Type	
XXX±		DRAWING No. PSC-4408	
APPROVALS		DATE	REV
DRAWN <i>gp</i>		03/14/12	02
CHECKED			
DO NOT SCALE DRAWING		SHEET 1 OF 3	



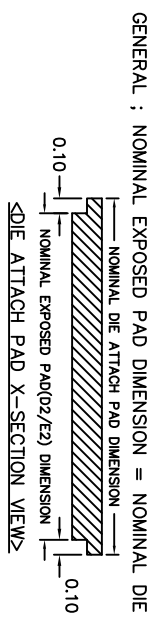
6024 Silver Creek Valley Road  
San Jose, CA 95138  
PHONE: (408) 284-8200  
FAX: (408) 284-8591  
www.idt.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	04/02/10	DP
01	COMBINE PAD & LAND PATTERN	08/8/13	KS
02	ADD NOTE LAND PATTERN DIMENSION	2/21/14	JH

\* CONTROLLING DIMENSION : MM

SYMBOL	MILLIMETER			INCH		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	----	0.90	----	----	0.035	----
A1	----	0.05	----	----	0.002	----
A2	----	0.65	0.70	----	0.026	0.028
A3		0.20 REF.			0.008 REF.	
b	0.15	0.20	0.25	0.006	0.008	0.010
D		5.00 bsc			0.394 bsc	
D2	3.55	3.70	3.85	0.140	0.146	0.152
E		10.00 bsc			0.197 bsc	
E2	8.55	8.70	8.85	0.337	0.343	0.348
L	0.30	0.40	0.50	0.012	0.016	0.020
e		0.40 bsc			0.016 bsc	
R	0.100	----	----	0.004	----	----
TOLERANCES OF FORM AND POSITION						
ddd		0.15			0.006	
bbb		0.10			0.004	
ccc		0.08			0.003	
ddd		0.05			0.002	
fff		0.10			0.004	

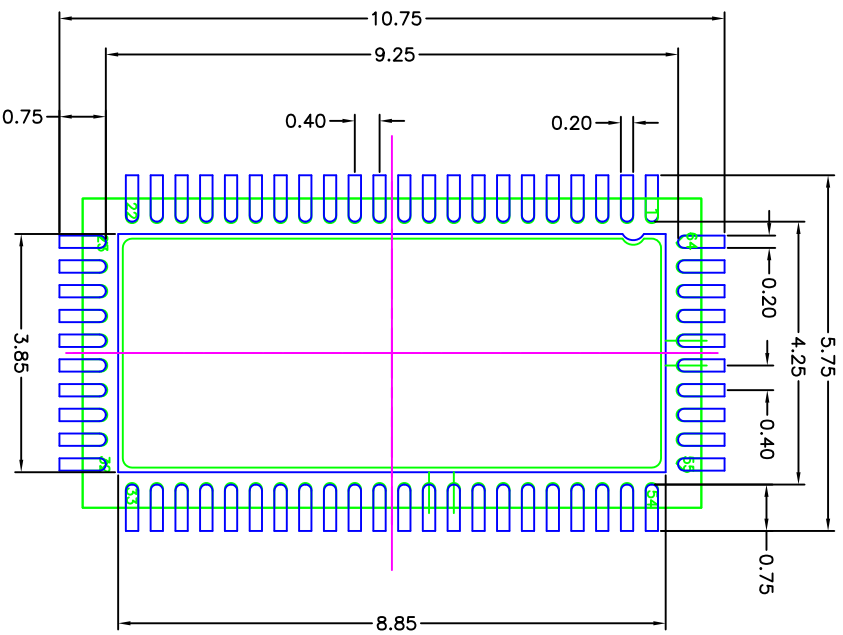
- NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETERS.
  2. DIE THICKNESS ALLOWABLE IS 0.305 mm MAXIMUM(0.12 INCHES MAXIMUM)
  3. DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M. -1994.
  4. THE PIN #1 IDENTIFIER MUST BE PLACED ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR OTHER FEATURE OF PACKAGE BODY.
  5. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
  6. PACKAGE WARPAGE MAX 0.08 mm.
  7. APPLIED FOR EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDING PART OF EXPOSED PAD FROM MEASURING.
  8. APPLIED ONLY TO TERMINALS.



GENERAL : NOMINAL EXPOSED PAD DIMENSION = NOMINAL DIE ATTACH PAD DIMENSION-0.20


TOLERANCES UNLESS SPECIFIED		6024 Silver Creek Valley Road San Jose, CA 95138	
DECIMAL	ANGULAR	PHONE: (408) 284-8200	
XX±		FAX: (408) 284-8591	
XXX±		WWW.IDT.COM	
XXXX±		TITLE NRG64 PACKAGE OUTLINE	
APPROVALS	DATE	10.0 x 5.0 mm BODY QFN	
DRAWN <i>gpp</i>	03/14/12	0.40 mm Pitch SAWN Type	
CHECKED		SIZE DRAWING No. PSC-4408	
		DO NOT SCALE DRAWING	
		SHEET 2 OF 3	

REVISIONS				
REV	DESCRIPTION	DATE	APPROVED	
00	INITIAL RELEASE	04/02/10	DP	
01	COMBINE POD & LAND PATTERN	08/8/13	KS	
02	ADD NOTE RECOMMENDED LAND PATTERN	2/21/14	JH	



RECOMMENDED LAND PATTERN DIMENSION

- 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			
DECIMAL	ANGULAR		
XX±			
XXXX±			
APPROVALS	DATE		
DRAWN <i>BP</i>	03/14/12		
CHECKED			
 <b>www.IDT.com</b> 6024 Silver Creek Valley Road San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591		TITLE NRG64 PACKAGE OUTLINE 10.0 x 5.0 mm BODY QFN 0.40 mm Pitch SAWN Type	
SIZE	DRAWING No.	REV	
C	PSC-4408	02	
DO NOT SCALE DRAWING		SHEET 3 OF 3	