

PACKAGE DIMENSION:

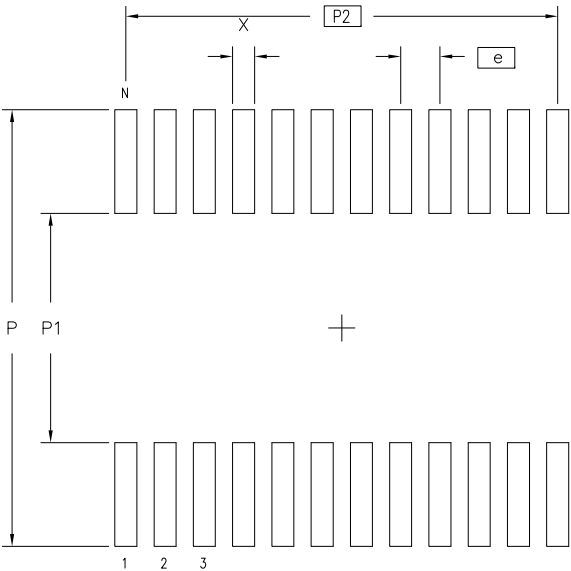
SYMBOL	JEDEC VARIATION																								NOTE
	AB (INCHES)			AB (mm)			AD (INCHES)			AD (mm)			AE (INCHES)			AE (mm)			AF (INCHES)			AF (mm)			
	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	MIN.	NOM.	MAX	
A	0.061	0.064	0.068	1.55	1.63	1.73	0.061	0.064	0.068	1.55	1.63	1.73	0.061	0.064	0.068	1.55	1.63	1.73	0.061	0.064	0.068	1.55	1.63	1.73	
A1	0.004	0.006	0.01	0.10	0.15	0.25	0.004	0.006	0.01	0.10	0.15	0.25	0.004	0.006	0.01	0.10	0.15	0.25	0.004	0.006	0.01	0.10	0.15	0.25	
A2	0.055	0.058	0.061	1.40	1.47	1.55	0.055	0.058	0.061	1.40	1.47	1.55	0.055	0.058	0.061	1.40	1.47	1.55	0.055	0.058	0.061	1.40	1.47	1.55	11
D	0.189	0.194	0.196	4.80	4.93	4.98	0.337	0.342	0.344	8.56	8.69	8.74	0.337	0.342	0.344	8.56	8.69	8.74	0.339	0.39	0.394	8.60	9.91	10.01	4,5
E	0.23	0.236	0.244	5.84	5.99	6.20	0.23	0.236	0.244	5.84	5.99	6.20	0.23	0.236	0.244	5.84	5.99	6.20	0.23	0.236	0.244	5.84	5.99	6.20	3
E1	0.15	0.155	0.157	3.81	3.94	3.99	0.15	0.155	0.157	3.81	3.94	3.99	0.15	0.155	0.157	3.81	3.94	3.99	0.15	0.155	0.157	3.81	3.94	3.99	4,6

NOTES:

- 1
- ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2
- DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-
- 3
- DIMENSION E TO BE DETERMINED AT SEATING PLANE -C-
- 4
- DIMENSIONS D AND E1 ARE TO BE DETERMINED AT DATUM PLANE -H-
- 5
- DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS AND GATE BURRS SHALL NOT EXCEED .006 PER SIDE
- 6
- DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED .010 PER SIDE
- 7
- THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .005 AND .010 FROM LEAD TIP
- 8
- LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .004 IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT
- 9
- THE CHAMFER ON THE PACKAGE BODY IS OPTIONAL. IF IT IS NOT PRESENT, A VISUAL INDEX FEATURE MUST BE LOCATED WITHIN THE ZONE INDICATED
- 10
- ALL DIMENSIONS ARE IN INCHES
- 11
- THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-137, VARIATION AB, AD, AE & AF. EXCEPTIONS: JEDEC DIMENSION A2 MAX IS .059


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
02	ADD 28 LD	08/15/95	T. VU
03	CHANGE TO QSOP	12/15/99	S.SUE
04	ADD "GREEN" PCG NOMENCLATURE	10/08/04	TU VU
05	CHANGE RADIUS DIM	11/15/11	CK LEE
06	CHANGE DIMENSION TABLE to mm.	1/13/16	JH

LAND PATTERN DIMENSIONS



LAND PATTERN DIMENSION:

	INCHES		mm		INCHES		mm		INCHES		mm		INCHES		mm	
	MIN.	MAX	MIN.	MAX	MIN.	MAX	MIN.	MAX	MIN.	MAX	MIN.	MAX	MIN.	MAX	MIN.	MAX
P	0.274	0.282	6.96	7.16	0.274	0.282	6.96	7.16	0.274	0.282	6.96	7.16	0.274	0.282	6.96	7.16
P1	0.142	0.150	3.61	3.81	0.142	0.150	3.61	3.81	0.142	0.150	3.61	3.81	0.142	0.150	3.61	3.81
P2	0.175	BSC	4.45	BSC	0.225	BSC	5.71	BSC	0.275	BSC	6.99	BSC	0.325	BSC	8.25	BSC
X	0.010	0.018	0.254	0.457	0.010	0.018	0.254	0.457	0.010	0.018	0.254	0.457	0.010	0.018	0.254	0.457
e	0.025	BSC	0.635	BSC	0.025	BSC	0.635	BSC	0.025	BSC	0.635	BSC	0.025	BSC	0.635	BSC
N	16				20				24				28			

TOLERANCES UNLESS SPECIFIED		 IDT™ www.IDT.com	2975 Stender Way Santa Clara, CA 95054 PHONE: (408) 727-6116 FAX: (408) 492-8674	
DECIMAL	ANGULAR			
XX±	±			
XXX±				
XXXX±				
APPROVALS	DATE	TITLE		PC/PCG PACKAGE OUTLINE .150" BODY WIDTH QSOP .025" PITCH
DRAWN				
CHECKED				
		SIZE	DRAWING No.	REV
		C	PSC-4040	06
DO NOT SCALE DRAWING			SHEET 2 OF 2	