

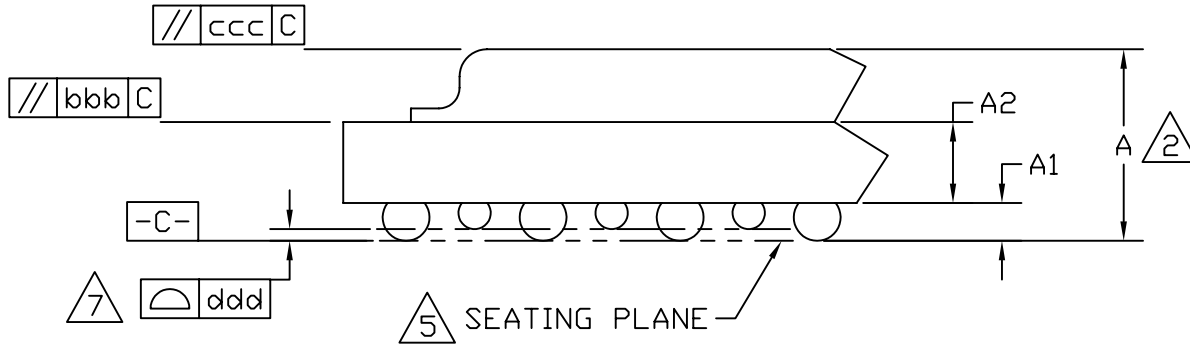
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	-	PRODUCTION RELEASE PER ECN #00-1151	12-08-00	R. J.
	A	REV PER ECN #01-298	03-26-01	R. J.
	B	REV PER ECN #03-603	05-23-03	A. S.
	C	REV PER ED #12095	08-11-05	R. J.

- CONTROLLING DIMENSIONS ARE IN MILLIMETERS.
- DISTANCE FROM THE SEATING PLANE TO THE HIGHEST POINT OF THE PACKAGE INCLUDES STANDOFF HEIGHT A1, PACKAGE BODY THICKNESS A2, AND LID HEIGHT.
- PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER IN A PLANE PARALLEL TO PRIMARY DATUM C.
- THE A-1 CORNER IS IDENTIFIED BY A SMALLER CHAMFER, A ROUND DOT ON THE TOP SURFACE, AND A SQUARE PAD ON THE BOTTOM SURFACE OF THE PACKAGE.
- BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.
- UNIDIRECTIONAL PROFILE TOLERANCE ZONE THAT EXTENDS UPWARDS FROM THE SEATING PLANE, DATUM C. THE LOWEST POINT OF THE BALL APEX MUST LIE IN THIS TOLERANCE ZONE.
- DFDQISR 05-S-1876.

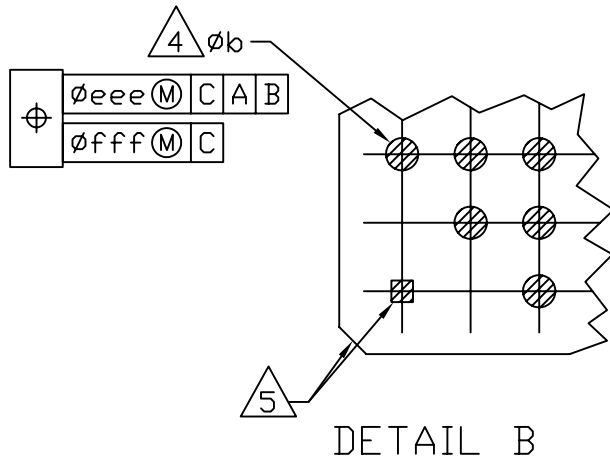
REFERENCE ONLY COPY

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REMARKS	ITEM NO.
			T. WAGNER DRAFTSPERSON	8/22/00 DATE	HONEYWELL INC. SOLID STATE ELECTRONICS CENTER MINNEAPOLIS, MINNESOTA
			CHECKER	DATE	472 DBGA CASE OUTLINE
			R. JENSEN ENGINEERING AREA APPROVER	12/8/00 DATE	
			W. BUCKMAN AFFECTED AREA APPROVER	12/8/00 DATE	
NEXT ASSY APPLICATION	USED ON	L. CHAMAS SRB APPROVER	12/8/00 DATE	SIZE B	CODE IDENT NO. 34168
				DRAWING NO. 22024005	
				SCALE NONE	SHEET 1 OF 2

September 08, 2005 10:44



DETAIL A (ROTATED 90°)



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	-	4.04	4.47	-	.159	.176
A1*	0.74	0.84	0.94	.029	.033	.037
A2	1.35	1.50	1.65	.053	.059	.065
b*	0.8	0.9	1.0	.031	.035	.039
<u>D</u> <u>E</u>	29.00			1.142		
<u>D1</u> <u>E1</u>	26.67			1.050		
<u>e</u>	1.27			0.050		
<u>S</u>	0.635			0.025		
aaa	0.29			0.011		
bbb	0.25			0.010		
ccc	0.35			0.014		
ddd	0.15			0.006		
eee	0.35			0.014		
fff	0.30			0.012		

* ALTERNATE BALL DIAMETERS ARE AVAILABLE