


<b>MAXIM</b>			
PROPRIETARY INFORMATION			
TITLE: PACKAGE OUTLINE, 17x17mm SBGA, 88 BALLS, 1.27mm PITCH			
APPROVAL	DOCUMENT CONTROL NO.	REV.	1/2
	<b>21-0126</b>	<b>A</b>	

## STANDARD BODY SIZE DIMENSION TABLE

BODY SIZE	17.0mm x 17.0mm			BODY SIZE
SYMBOL	MIN.	NOM.	MAX.	NOTE
A	1.61	1.83	2.05	OVERALL THICKNESS
A <sub>1</sub>	0.56	0.63	0.70	BALL HEIGHT
A <sub>2</sub>	1.05	1.20	1.35	BODY THICKNESS
D	—	17.00	—	BODY SIZE
D <sub>1</sub>	15.14	15.24	15.34	BALL FOOTPRINT
E	—	17.00	—	BODY SIZE
E <sub>1</sub>	15.14	15.24	15.34	BALL FOOTPRINT
M,N	13 x 13			BALL MATRIX
M <sub>1</sub> 	2			NUMBER OF ROWS DEEP
b	0.60	0.75	0.90	BALL DIAMETER
d	0.5	—	—	MIN DISTANCE ENCAP TO BALLS
e	1.27			BALL PITCH
aaa	—	—	0.15	PACKAGE BODY PROFILE
bbb	—	—	0.10	PARALLEL
ccc	—	—	0.15	ENCAP FLATNESS OVER DIE
ddd	—	—	0.42	COPLANARITY
S	—	—	—	SOLDER BALL PLACEMENT
T	0.05	0.125	0.175	V-SCORE WEB THICKNESS
V	16.60	16.75	16.90	V-SCORE BOTTOM SIZE

NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994.




 2. DIMENSION "d" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM  .

 3. PRIMARY DATUM  AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.

 4. BALL A1 ID. MARK.

 5. NUMBER OF ROWS IN FROM EDGE TO CENTER.

 6. SEATING PLANE CLEARANCE: MINIMUM HEIGHT OF ENCAPSULANT ABOVE SEATING PLANE.

 7. "S" IS MEASURED WITH RESPECT TO  AND  AND DEFINES THE POSITION OF THE CENTER SOLDER BALL IN THE OUTER ROW. WHEN THERE IS AN ODD NUMBER OF SOLDER BALLS IN THE OUTER ROW "S"=.000.

# MAXIM

PROPRIETARY INFORMATION

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PACKAGE OUTLINE,  
17x17mm SBGA, 88 BALLS, 1.27mm PITCH

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