



MOTOROLA
Semiconductor Products Sector

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MECHANICAL OUTLINES
DICTIONARY

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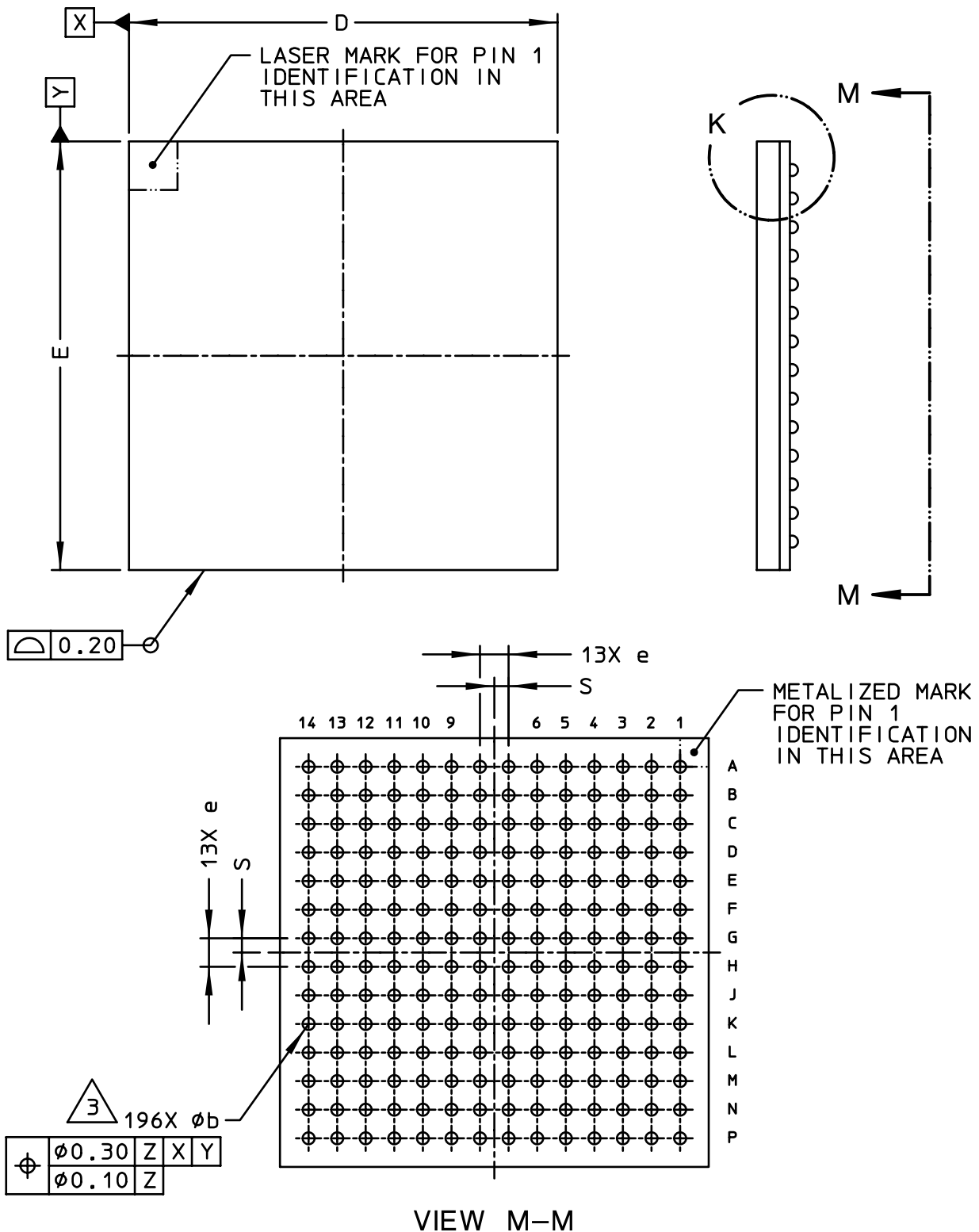
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PAGE

1128A

ISSUE 0

DATE 15DEC97



TITLE

196 I/O STD MAP BGA,
15 X 15 PACKAGE

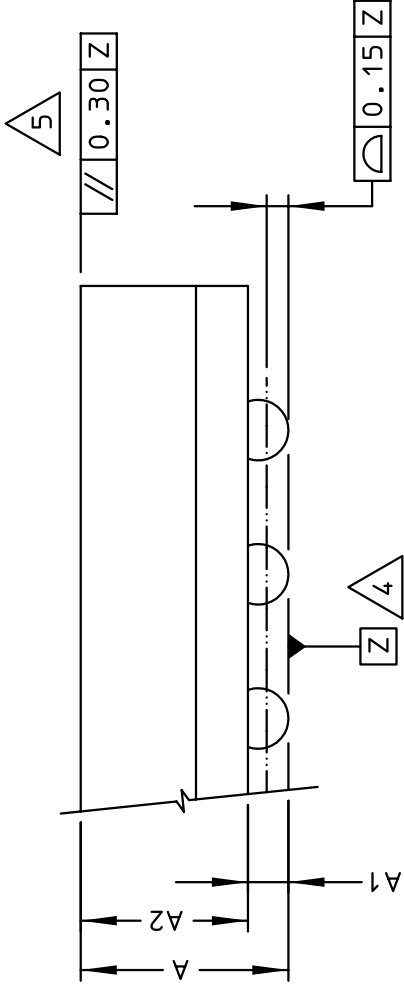
CASE NUMBER: 1128A-01

STANDARD: MOTOROLA

REFERENCE: U, X

SHEET 1 OF 2

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DETAIL K
ROTATED 90° CLOCKWISE

DIM		MIN		MAX		NOTES	
A		1.32		1.75		1. DIMENSIONS ARE IN MILLIMETERS. 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994. 3. DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO DATUM PLANE Z. 4. DATUM Z (SEATING PLANE) IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS. 5. PARALLELISM MEASUREMENT SHALL EXCLUDE ANY EFFECT OF MARK ON TOP SURFACE OF PACKAGE.	
A1		0.27		0.47			
A2		1.18	REF				
b		0.35		0.65			
D		15.00	BSC				
E		15.00	BSC				
e		1.00	BSC				
S		0.50	BSC				
TITLE						CASE NUMBER: 1128A-01	
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						REFERENCE: U, X	SHEET 2 OF 2