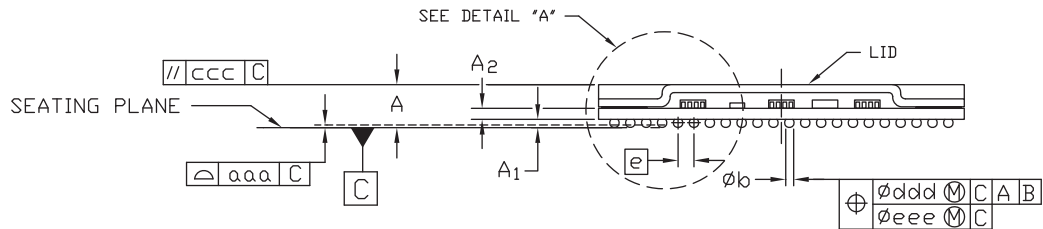
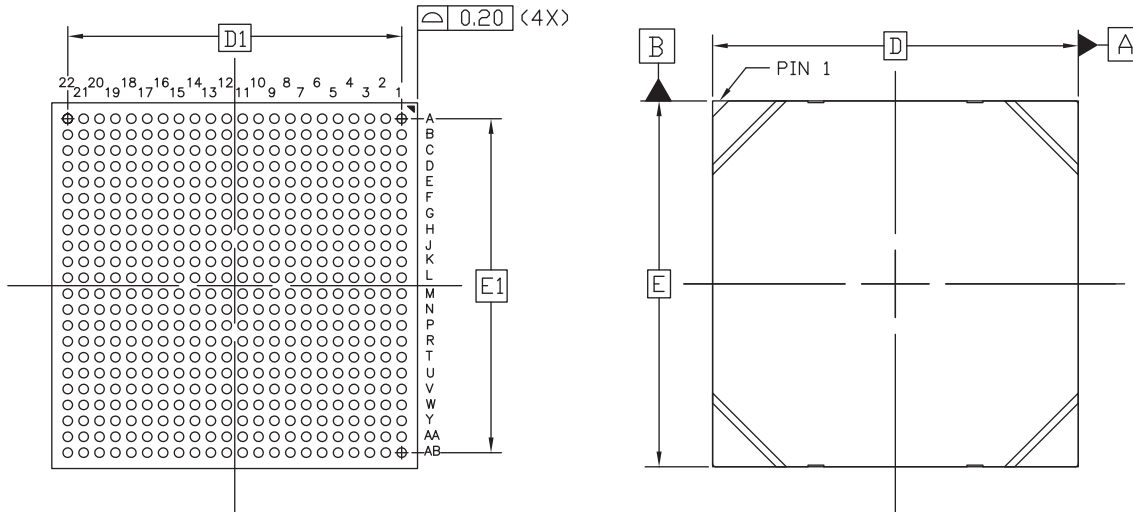


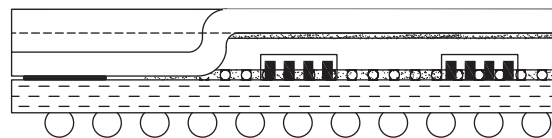
BOTTOM VIEW

TOP VIEW



FF484 - Sn/Pb SOLDER BALLS
FFG484 - Sn/Ag/Cu SOLDER BALLS

SYMBOL	MILLIMETERS			NOTE
	MIN.	NOM.	MAX.	
A	2.35	\approx	2.86	2
A ₁	0.40	0.50	0.60	
A ₂	0.65	\approx	0.90	
$\frac{D}{E}$	23.00 BASIC			
$\frac{D_1}{E_1}$	21.00 REF			
$\frac{e}{e}$	1.00 BASIC			
ϕb	0.50	0.60	0.70	
aaa	\approx	\approx	0.20	
ccc	\approx	\approx	0.25	
ddd	\approx	\approx	0.25	
eee	\approx	\approx	0.10	
M	22			



DETAIL "A"
(NOT TO SCALE)

NOTES:

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
2. SYMBOL 'M' IS THE BALL MATRIX SIZE.
3. CONFORMS TO JEDEC MS-034-AAJ-1.

PK382_01_102210

Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
06/24/09	1.0	Initial Xilinx release.
12/3/10	1.1	Changed maximum overall package thickness (symbol A) from 3.00 to 2.86.

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