



SYMBOL	MILLIMETERS			NOTE
	MIN.	NOM.	MAX.	
A	2.70	$\approx$	3.50	
A <sub>1</sub>	0.40	0.50	0.60	
A <sub>2</sub>	0.90	$\approx$	1.50	
D/E	35.00 BASIC			
D <sub>1</sub> /E <sub>1</sub>	33.00 REF			
e	1.00 BASIC			
phi b	0.50	0.60	0.70	
aaa	$\approx$	$\approx$	0.20	
ccc	$\approx$	$\approx$	0.35	
ddd	$\approx$	$\approx$	0.25	
eee	$\approx$	$\approx$	0.10	
M	34			2

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-AAR-1
4. THIS PACKAGE IS ONLY USED FOR VIRTEX<sup>®</sup>-5 FPGAS REFER TO PK401 FOR THE MECHANICAL DRAWING OF THE FF1156 PACKAGE USED BY VIRTEX-6 FPGAS

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## Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
06/04/09	1.0	Initial Xilinx release.
12/14/09	1.1	Revised document title and added note 4 to indicate this package is a variation of the FF1156/FFG1156 type used only on Virtex-5 FPGAs.

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