



SYMBOL	MILLIMETERS			NOTE
	MIN.	NOM.	MAX.	
A	2.70	<i>~</i>	3.50	
A <sub>1</sub>	0.40	0.50	0.60	
A <sub>2</sub>	0.90	<i>~</i>	1.50	
$\frac{D}{E}$	35.00 BASIC			
$\frac{D_1}{E_1}$	33.00 REF			
e	1.00 BASIC			
$\phi_b$	0.50	0.60	0.70	
aaa	<i>~</i>	<i>~</i>	0.20	
ccc	<i>~</i>	<i>~</i>	0.35	
ddd	<i>~</i>	<i>~</i>	0.25	
eee	<i>~</i>	<i>~</i>	0.10	
M	34			2

FF1154 - Sn/Pb SOLDER BALLS  
FFG1154 - Sn/Ag/Cu SOLDER BALLS

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. ACTUAL SOLDER BALL COUNT = 1156

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## Revision History

The following table shows the revision history for this document.

Date	Version	Description of Revisions
11/09/09	1.0	Initial Xilinx release.

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