

04R-00267-2.0

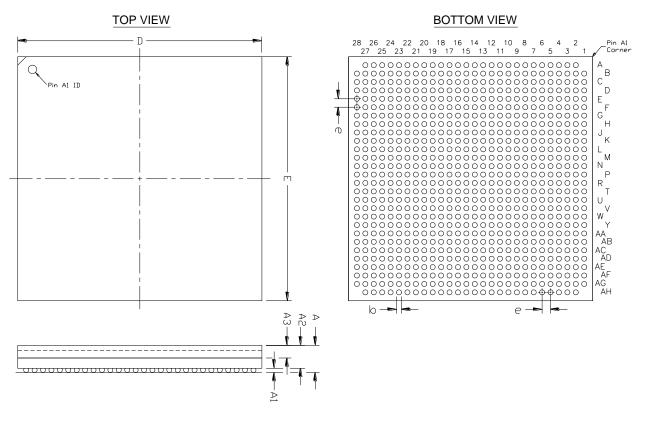
## 780-Pin FineLine Ball-Grid Array (FBGA) - Flip Chip - Channel Lid - A:3.50

- All dimensions and tolerances conform to ASME Y14.5M 1994.
- Controlling dimension is in millimeters.
- Pin A1 may be indicated by an ID dot, or a special feature, in its proximity on package surface.

Package Information			
Description	Specification		
Ordering Code Reference	F		
Package Acronym	FBGA		
Substrate Material	BT		
Solder ball composition	Regular: 63Sn:37Pb (Typ.) Pb-free: Sn:3Ag:0.5Cu (Typ.)		
JEDEC Outline Reference	MS-034 Variation: AAM-1		
Lead Coplanarity	0.008 inch (0.20 mm)		
Weight	9.5 g (Typ.)		
Moisture Sensitivity Level	Printed on moisture barrier bag		

Package Outline Di	ckage Outline Dimension Table					
Quarter at	Millimeters					
Symbol	Min.	Nom.	Max.			
А	3.10	3.30	3.50			
A1	0.40	0.50	0.60			
A2	2.50	2.80	3.10			
A3	1.45	1.55	1.65			
D	29.00 BSC					
E	29.00 BSC					
b	0.50	0.60	0.70			
е	1.00 BSC					

## Package Outline



## **Document Revision History**

Table 1 shows the revision history for this document.

## Table 1. Document Revision History

	Date	Version	Changes
Jun	ne 2011	1.0	Initial release
Noven	nber 2012	2.0	Revised Package Outline at Page 2 to include the chamfer at TOP VIEW and update the SIDE VIEW.



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