04R-00264-1.0

672-Pin FineLine Ball-Grid Array (FBGA) - Flip Chip - Single-Piece Lid - A:3.00 - D1:20.0

- 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.

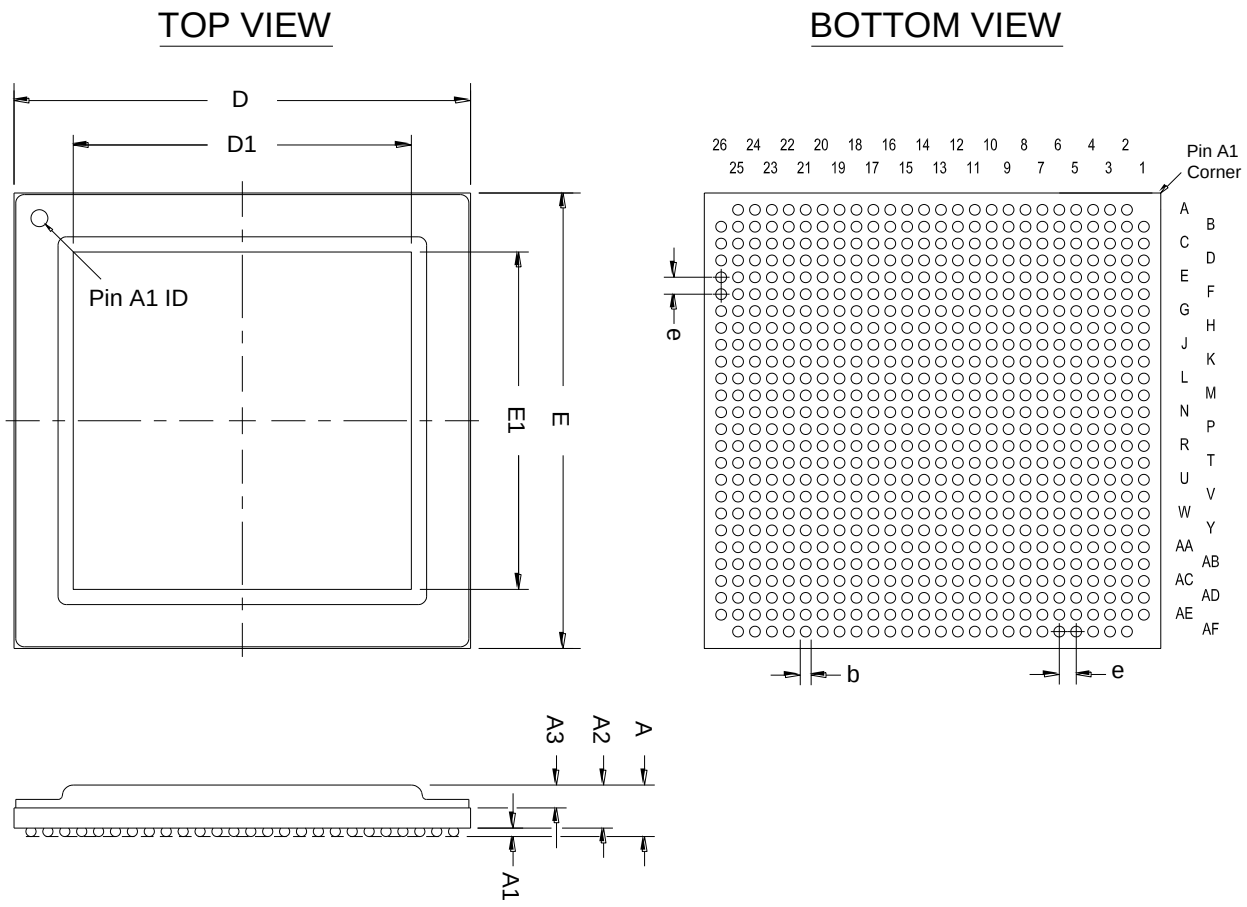
Package Information

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: AAL-1
Lead Coplanarity	0.008 inch (0.20 mm)
Weight	6.5 g (Typ.)
Moisture Sensitivity Level	Printed on moisture barrier bag

Package Outline Dimension Table

Symbol	Millimeters		
	Min.	Nom.	Max.
A	2.60	2.80	3.00
A1	0.40	0.50	0.60
A2	2.00	2.30	2.60
A3	1.00	1.10	1.20
D	27.00 BSC		
D1	20.00 BSC		
E	27.00 BSC		
E1	20.00 BSC		
b	0.50	0.60	0.70
e	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
October 2010	1.0	Initial release

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