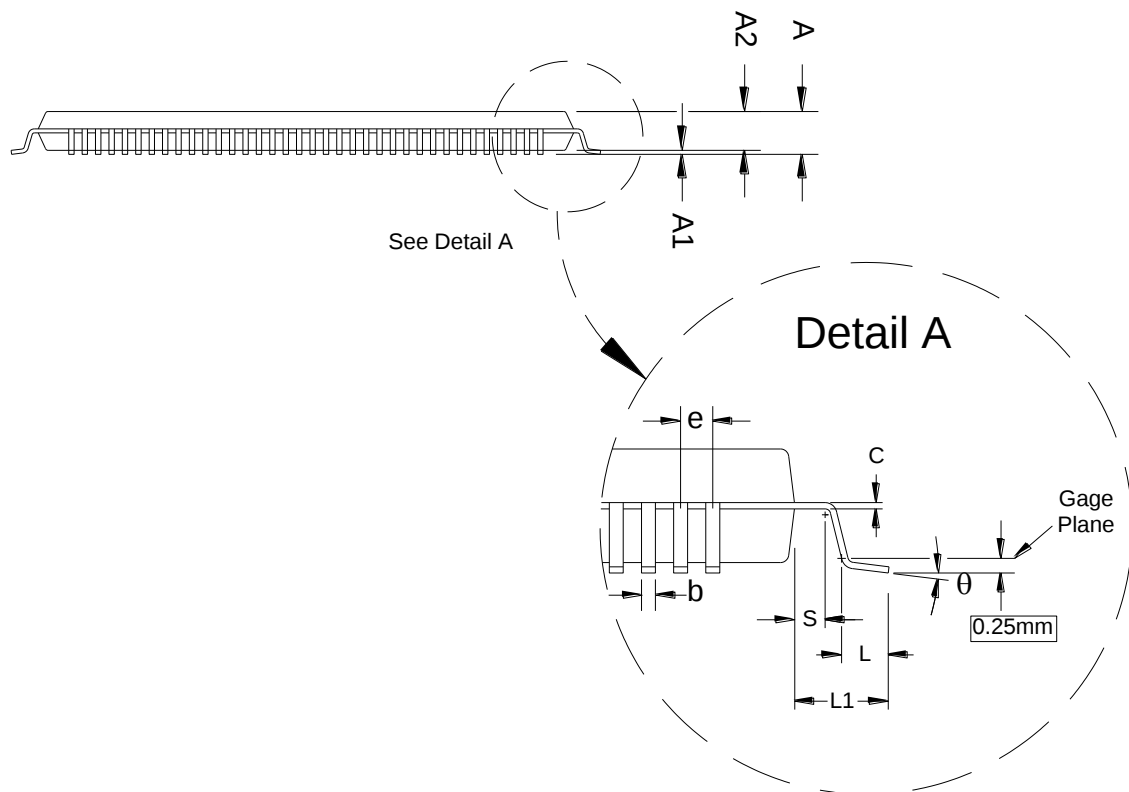
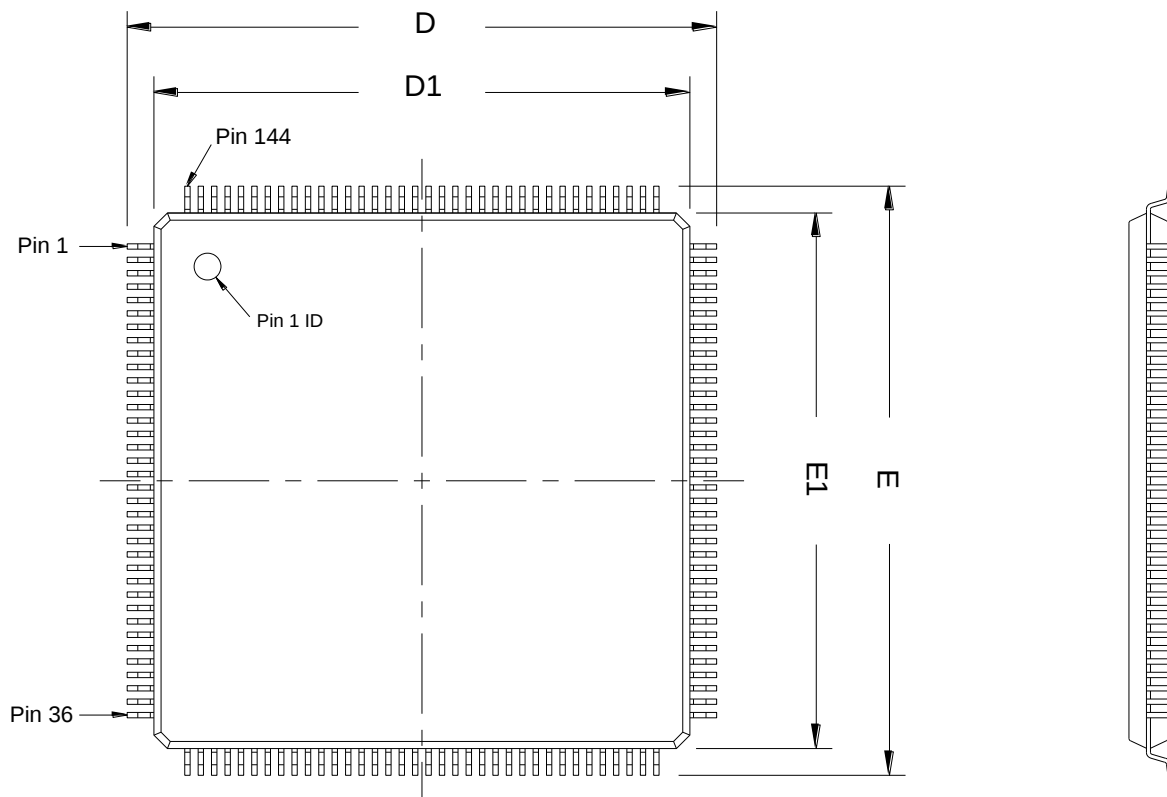


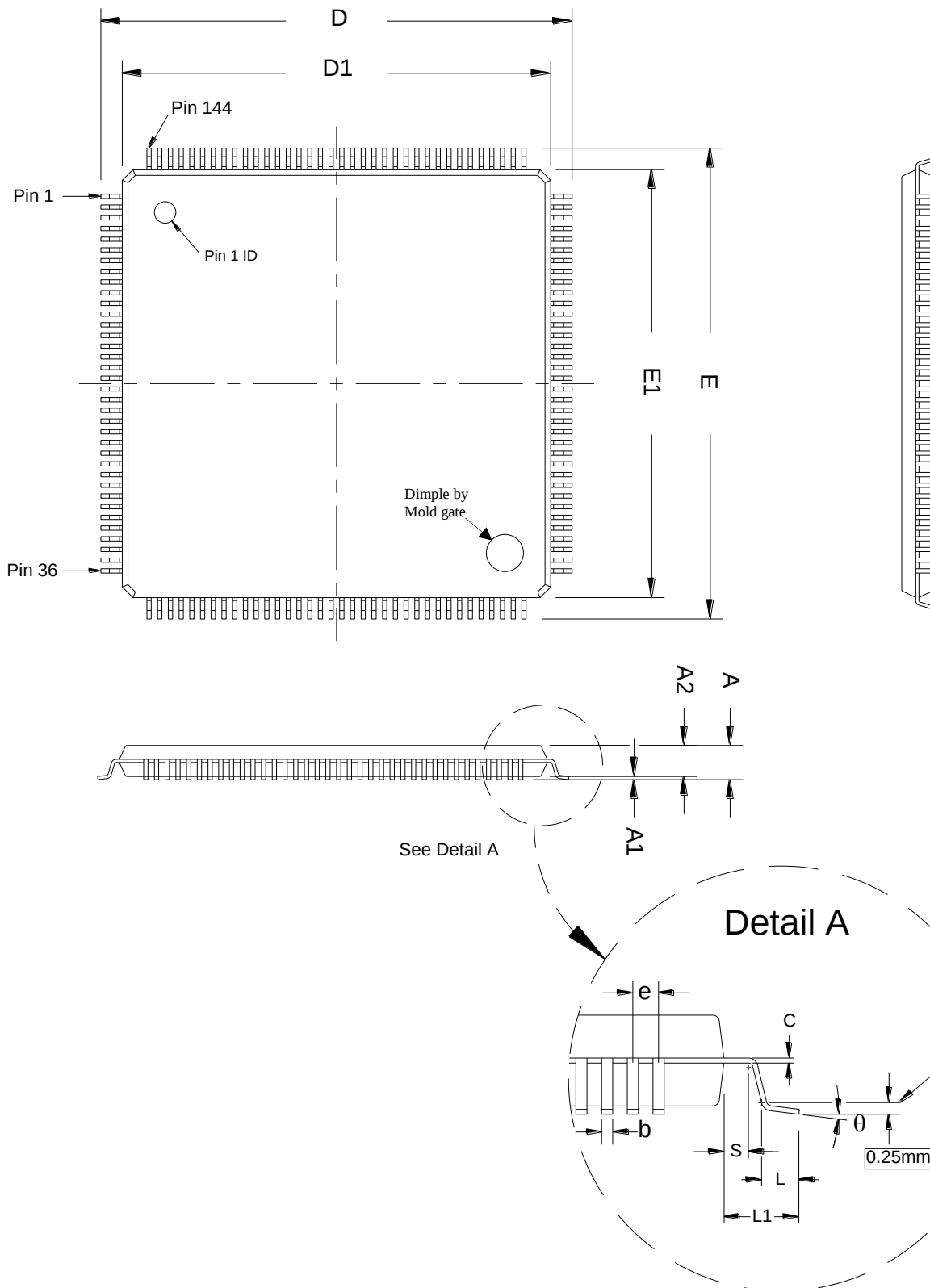
144-Pin Plastic Thin Quad Flat Pack (TQFP) - Wire Bond - A:1.60

- All dimensions and tolerances conform to ASME Y14.5M – 1994.
- Controlling dimension is in millimeters.
- Pin 1 may be indicated by an ID dot, or a special feature, in its proximity on package surface.

Package Information	
Description	Specification
Ordering Code Reference	T
Package Acronym	TQFP
Substrate Material	Copper
Lead Finish (plating)	Regular: 85Sn:15Pb (Typ.) Pb-free: Matte Sn
JEDEC Outline Reference	MS-026 Variation: BFB
Lead Coplanarity	0.003 inch (0.08 mm)
Weight	1.0 g (Typ.)
Moisture Sensitivity Level	Printed on moisture barrier bag

Package Outline Dimension Table			
Symbol	Millimeters		
	Min.	Nom.	Max.
A	1.40	1.50	1.60
A1	0.05	0.10	0.15
A2	1.35	1.40	1.45
D	22.00 BSC		
D1	20.00 BSC		
E	22.00 BSC		
E1	20.00 BSC		
L	0.45	0.60	0.75
L1	1.00 REF		
S	0.20	-	-
b	0.17	0.22	0.27
c	0.09	-	0.20
e	0.50 BSC		
θ	0°	3.5°	7°

Package Outline (Option1)

Package Outline (Option 2)

Document Revision History

Table 1 shows the revision history for this document.

Table 1. Document Revision History

Date	Version	Changes
July 2011	1.0	Initial release
August 2014	2.0	Correct typo on JEDEC Outline Reference from "MS-029 Variation: BFB" to "MS-026 Variation: BFB"
October 2014	3.0	Add option 2 package outline in page 3.
May 2015	4.0	Modify dimple by mold gate size at option 2 package outline in page 3.



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