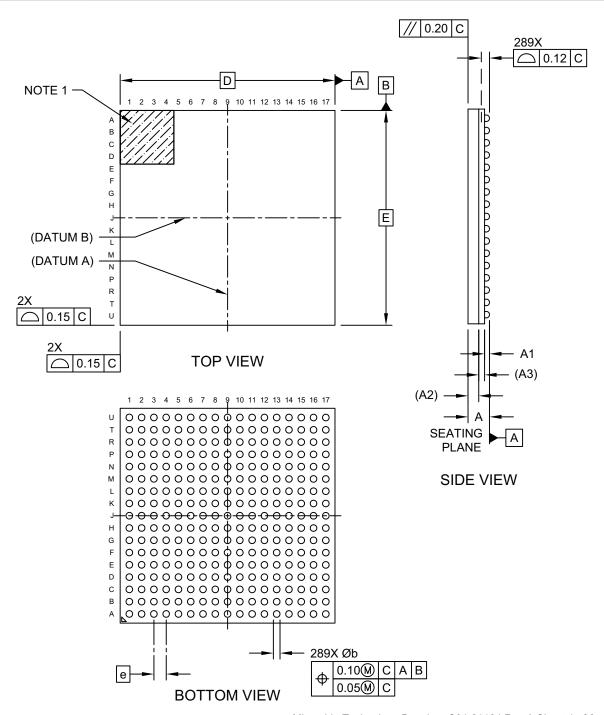


289-Ball Low Profile Fine Pitch Ball Grid Array (AMB) - 14x14x1.4 mm Body [LFBGA] Atmel Legacy Global Package Code CCZ

Note: For the most current package drawings, please see the Microchip Packaging Specification located at http://www.microchip.com/packaging

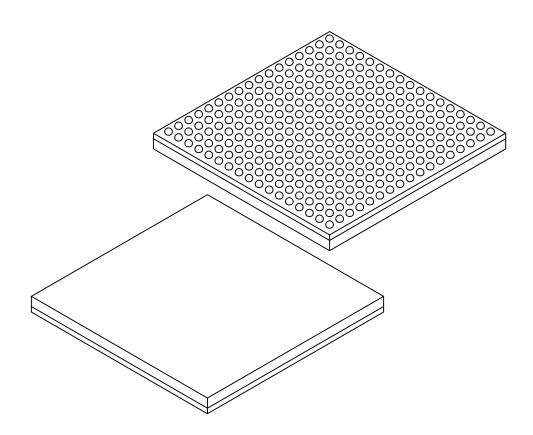


Microchip Technology Drawing C04-21124 Rev A Sheet 1 of 2



289-Ball Low Profile Fine Pitch Ball Grid Array (AMB) - 14x14x1.4 mm Body [LFBGA] **Atmel Legacy Global Package Code CCZ**

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	MILLIMETERS				
Dimension Limits		MIN	NOM	MAX	
Number of Terminals	N	289			
Pitch	е	0.80 BSC			
Overall Height	Α	-	-	1.40	
Ball Height	A1	0.27	0.32	0.37	
Molded Cap Thickness	A2	0.70 REF			
Substrate Thickness	A3	0.26 REF			
Overall Length	D	14.00 BSC			
Overall Width	Е	14.00 BSC			
Terminal Diameter	b	0.38	0.43	0.48	

- 1. Pin 1 visual index feature may vary, but must be located within the hatched area.

Dimensioning and tolerancing per ASME Y14.5M
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

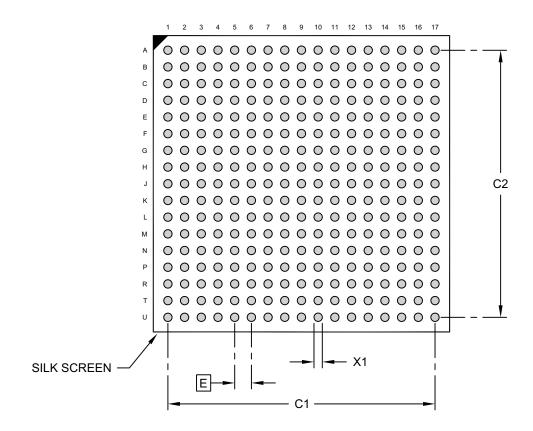
REF: Reference Dimension, usually without tolerance, for information purposes only.

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289-Ball Low Profile Fine Pitch Ball Grid Array (AMB) - 14x14x1.4 mm Body [LFBGA] Atmel Legacy Global Package Code CCZ

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RECOMMENDED LAND PATTERN

	Units		MILLIMETERS		
Dimension	Dimension Limits		NOM	MAX	
Contact Pitch	Е	0.80 BSC			
Contact Pad Spacing	C1		12.80		
Contact Pad Spacing	C2		12.80		
Contact Pad Width (X20)	X1			0.40	

Notes:

- 1. Dimensioning and tolerancing per ASME Y14.5M
 - BSC: Basic Dimension. Theoretically exact value shown without tolerances.
- For best soldering results, thermal vias, if used, should be filled or tented to avoid solder loss during reflow process

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