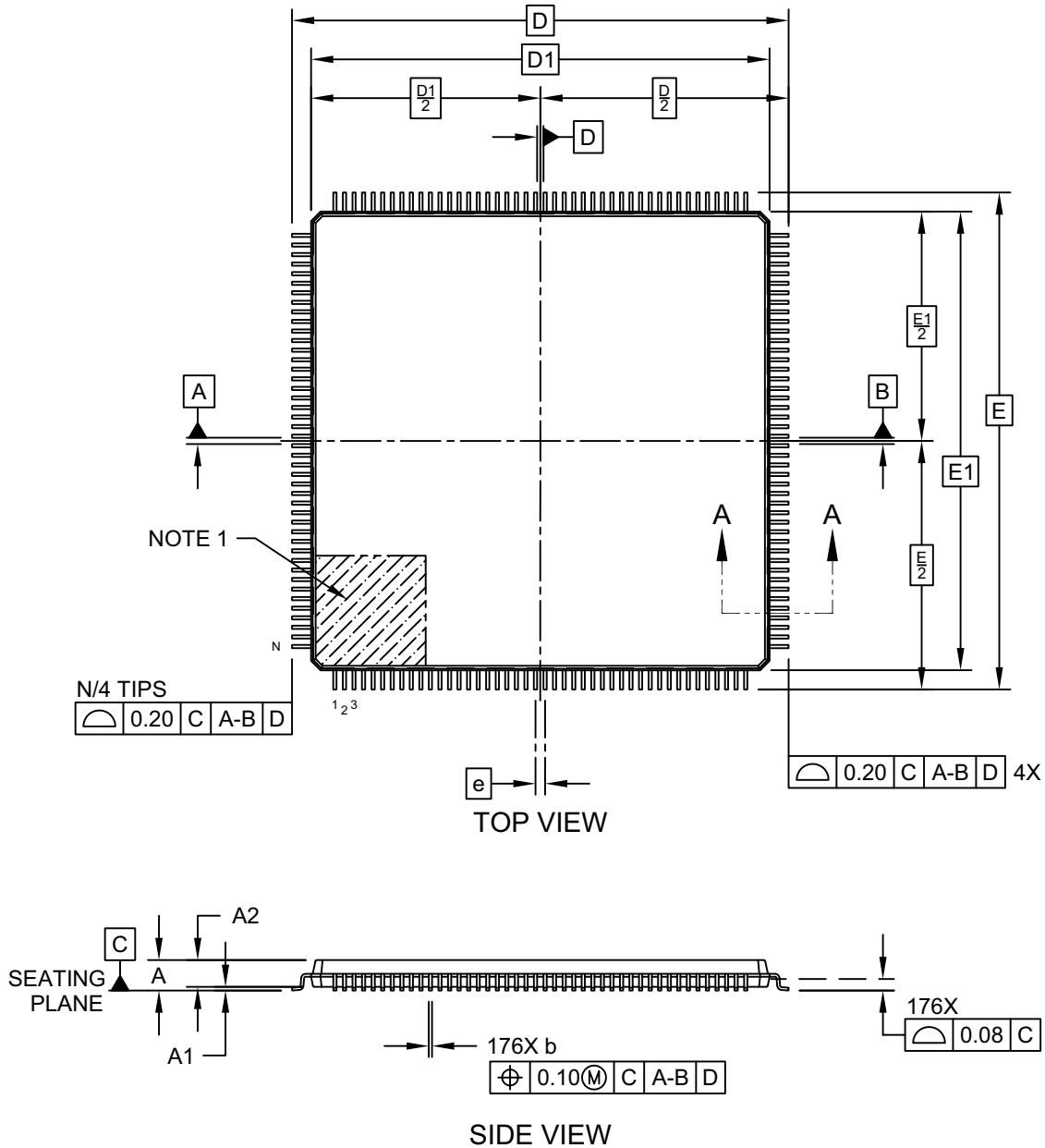


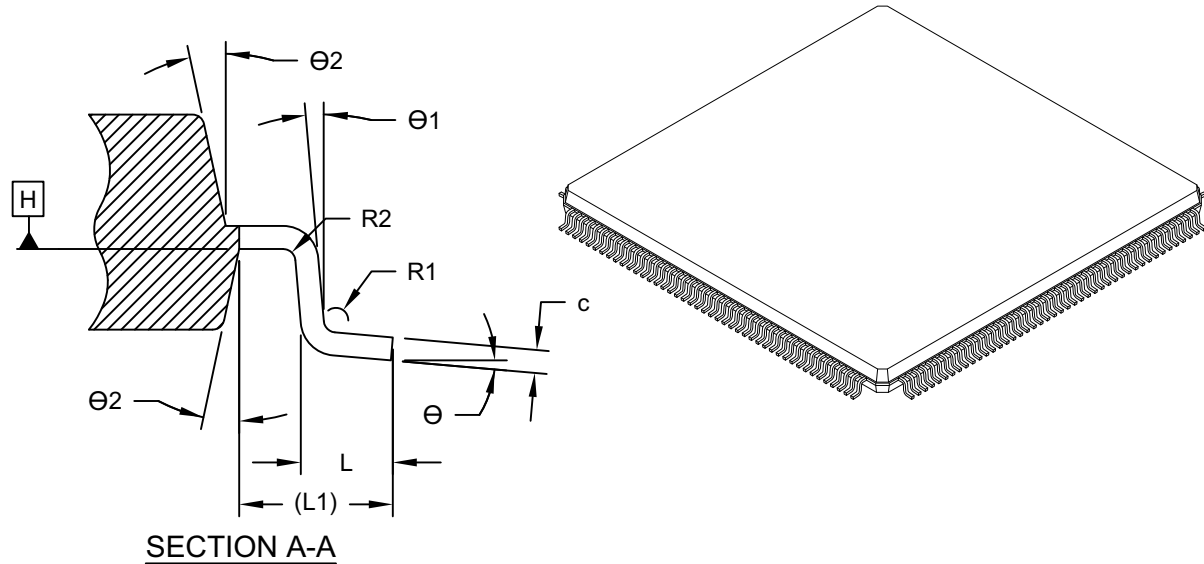
**176-Lead Plastic Quad Flatpack (2VB) - 24x24x1.4 mm Body [LQFP]
Atmel Legacy Global Package Code AGR**

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



**176-Lead Plastic Quad Flatpack (2VB) - 24x24x1.4 mm Body [LQFP]
Atmel Legacy Global Package Code AGR**

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



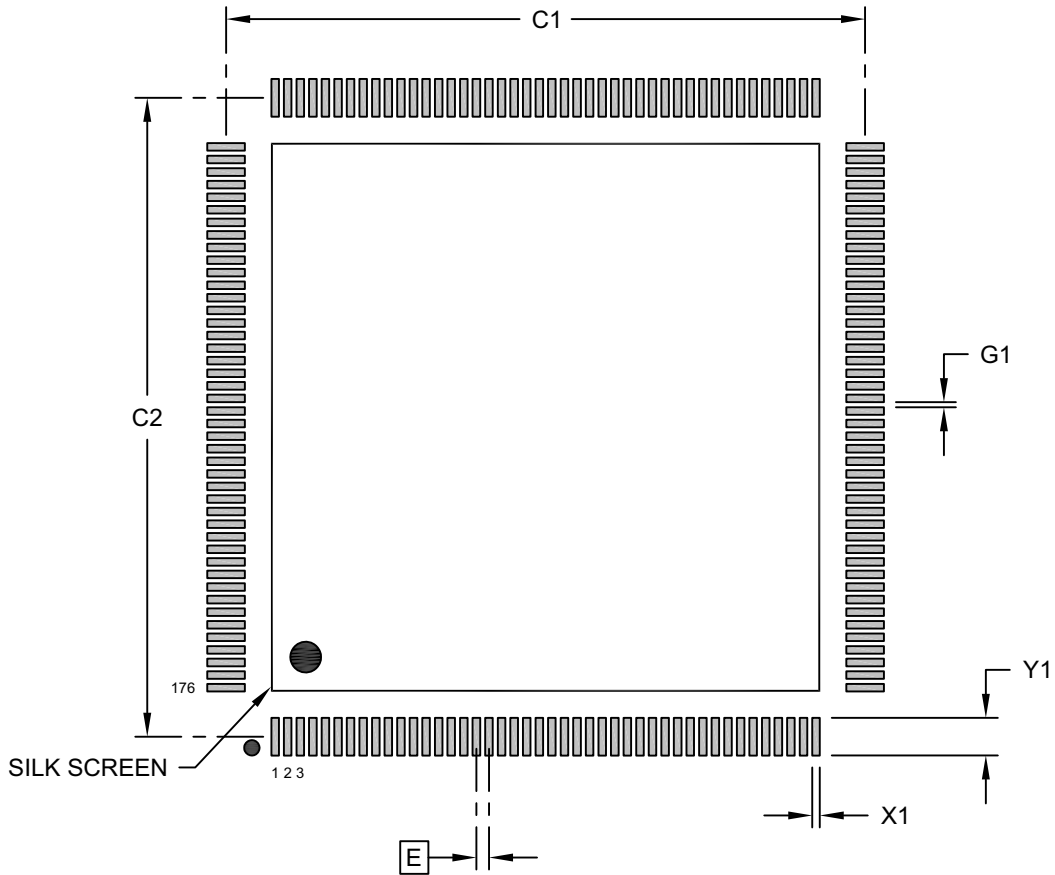
Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Number of Terminals	N	176		
Pitch	e	0.50 BSC		
Overall Height	A	-	-	1.60
Standoff	A1	0.05	-	0.15
Molded Package Thickness	A2	1.35	1.40	1.45
Overall Length	D	26.00 BSC		
Molded Package Length	D1	24.00 BSC		
Overall Width	E	26.00 BSC		
Molded Package Width	E1	24.00 BSC		
Terminal Width	b	0.17	0.22	0.27
Terminal Thickness	c	0.09	-	0.20
Terminal Length	L	0.45	0.60	0.75
Footprint	L1	1.00 REF -		
Lead Bend Radius	R	0.08	-	-
Lead Bend Radius	R2	0.08	-	0.20
Foot Angle	Θ	0°	3.5°	7°
Lead Angle	Θ1	0°	-	-
Terminal-to-Exposed-Pad	Θ2	11°	12°	13°

Notes:

1. Pin 1 visual index feature may vary, but must be located within the hatched area.
2. 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.

**176-Lead Plastic Quad Flatpack (2VB) - 24x24x1.4 mm Body [LQFP]
Atmel Legacy Global Package Code AGR**

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



RECOMMENDED LAND PATTERN

		Units	MILLIMETERS		
Dimension Limits			MIN	NOM	MAX
Contact Pitch	E		0.50 BSC		
Contact Pad Spacing	C1			25.40	
Contact Pad Spacing	C2			25.40	
Contact Pad Width (X176)	X1				0.30
Contact Pad Length (X176)	Y1				1.50
Contact Pad to Center Pad (X172)	G1	0.20			

Notes:

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