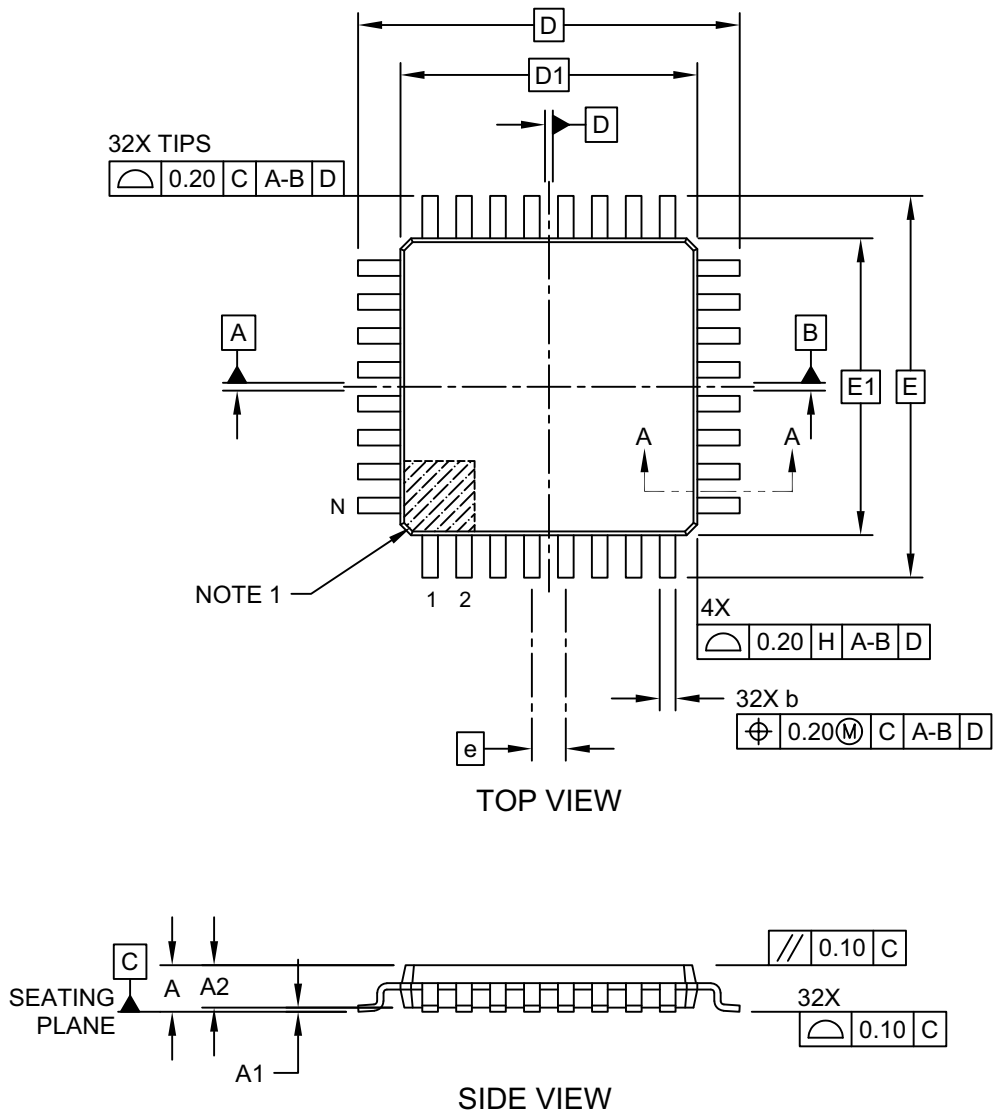


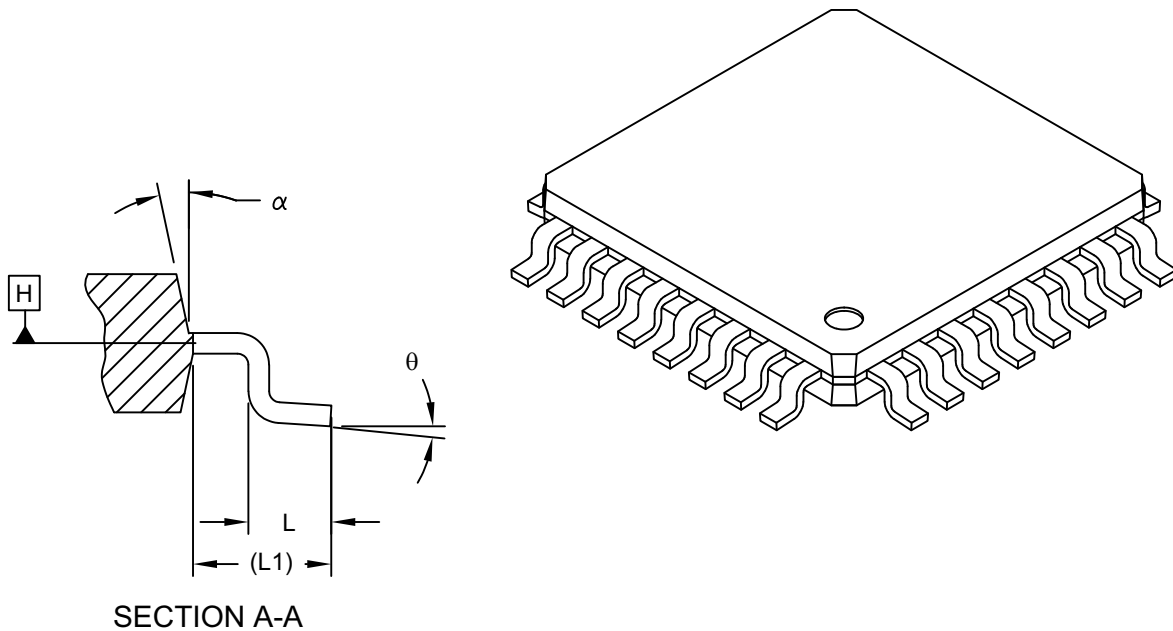
**32-Lead Plastic Thin Quad Flatpack (PT) - 7x7x1.0 mm Body [TQFP]  
2.00 mm Footprint; Also Atmel Legacy Global Package Code AUT**

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



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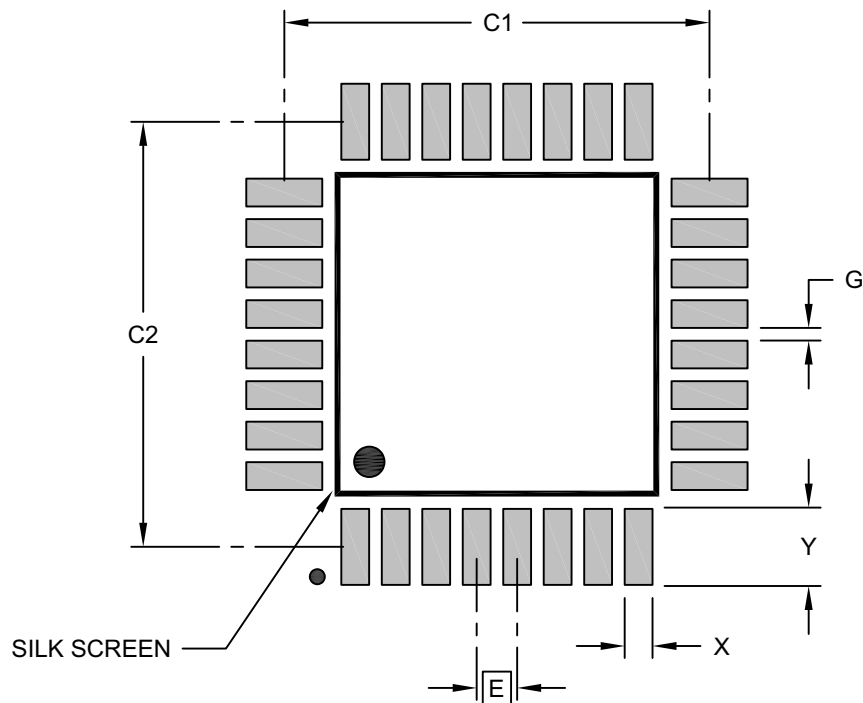
Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Number of Leads	N	32		
Lead Pitch	e	0.80 BSC		
Overall Height	A	-	-	1.20
Standoff	A1	0.05	-	0.15
Molded Package Thickness	A2	0.95	1.00	1.05
Foot Length	L	0.45	0.60	0.75
Footprint	L1	1.00 REF		
Foot Angle	$\theta$	0°	-	7°
Overall Width	E	9.00 BSC		
Overall Length	D	9.00 BSC		
Molded Package Width	E1	7.00 BSC		
Molded Package Length	D1	7.00 BSC		
Lead Width	b	0.30	0.37	0.45
Mold Draft Angle Top	$\alpha$	11°	-	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.

**32-Lead Plastic Thin Quad Flatpack (PT) - 7x7x1.0 mm Body [TQFP]  
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**RECOMMENDED LAND PATTERN**

Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Contact Pitch	E	0.80 BSC		
Contact Pad Spacing	C1		8.40	
Contact Pad Spacing	C2		8.40	
Contact Pad Width (X32)	X			0.55
Contact Pad Length (X32)	Y			1.55
Contact Pad to Contact Pad (X28)	G	0.25		

**Notes:**

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