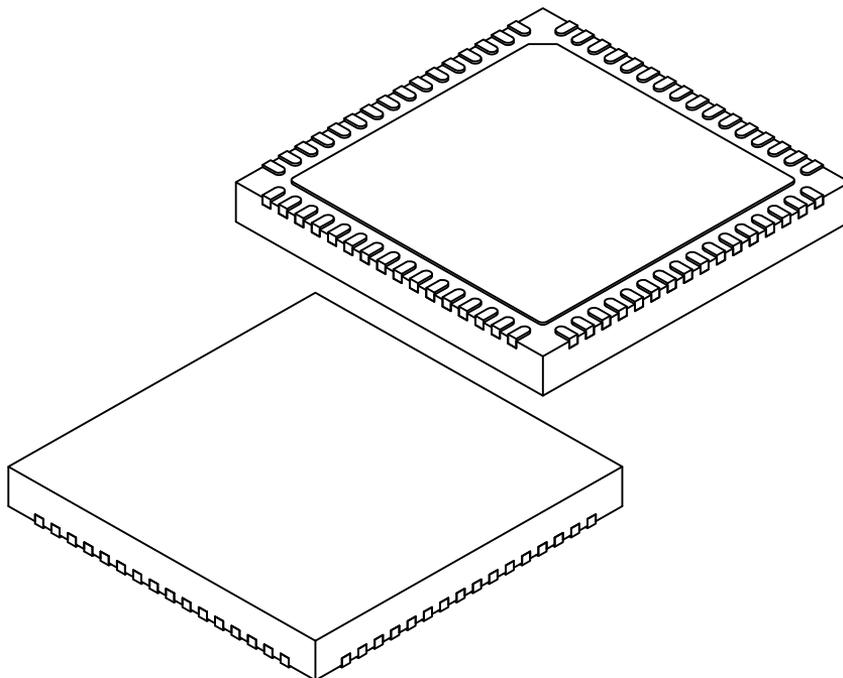


# 64-Lead Very Thin Plastic Quad Flat, No Lead Package (SHB) - 7.5x7.5 mm Body [SHB] With 6.2 mm Exposed Pad; Atmel Legacy Global Package Code ZFR

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



		Units	MILLIMETERS		
Dimension Limits			MIN	NOM	MAX
Number of Terminals	N	64			
Pitch	e	0.40 BSC			
Overall Height	A	0.80	0.85	0.90	
Standoff	A1	0.00	0.02	0.05	
Terminal Thickness	A3	0.20 REF			
Overall Length	D	7.50 BSC			
Exposed Pad Length	D2	6.05	6.20	6.35	
Overall Width	E	7.50 BSC			
Exposed Pad Width	E2	6.05	6.20	6.35	
Terminal Width	b	0.15	0.20	0.25	
Terminal Length	L	0.30	0.40	0.50	
Terminal-to-Exposed-Pad	K	0.20	-	-	

**Notes:**

1. Pin 1 visual index feature may vary, but must be located within the hatched area.
2. Package is saw singulated
3. 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.