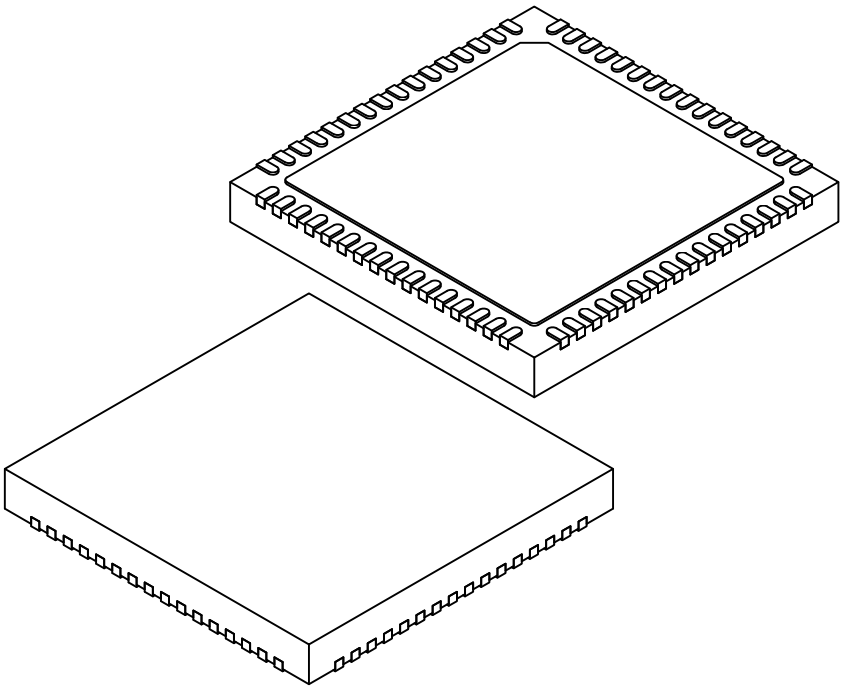
64-Lead Very Thin Plastic Quad Flat, No Lead Package (SHB) - 7.5x7.5 mm Body [VQFN] With 6.2 mm Exposed Pad; Atmel Legacy Global Package Code ZFR

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. The Pin 1 visual index feature may vary, but it must be located within the hatched area.
2. The package is saw singulated.
3. Dimensioning and tolerancing per ASME Y14.5M

   BSC: Basic Dimension. The theoretically exact value is shown without tolerances.

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