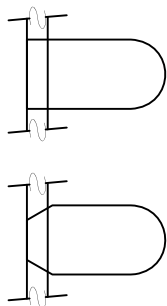


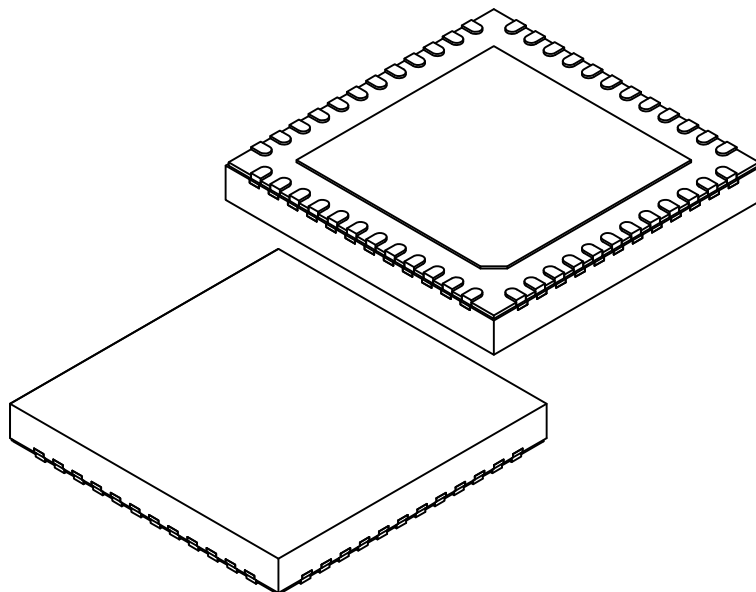
48-Lead Very Thin Plastic Quad Flat, No Lead Package (U5B) - 7x7 mm Body [VQFN] With 5.15 mm Exposed Pad and Stepped Wettable Flanks; Atmel Legacy ZLH

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



DETAIL 1

ALTERNATE TERMINAL CONFIGURATIONS



		Units	MILLIMETERS		
Dimension Limits			MIN	NOM	MAX
Number of Terminals	N		48		
Pitch	e		0.50 BSC		
Overall Height	A	0,80	0.85	0.90	
Standoff	A1	0.00	0.02	0.05	
Terminal Thickness	A3	0.203 REF			
Overall Length	D	7.00 BSC			
Exposed Pad Length	D2	5.05	5.15	5.25	
Overall Width	E	7.00 BSC			
Exposed Pad Width	E2	5.05	5.15	5.25	
Terminal Width	b	0.20	0.25	0.30	
Terminal Length	L	0.35	0.40	0.45	
Terminal-to-Exposed-Pad	K	0.53 REF			
Wettable Flank Step Length	D3	-	-	0.085	
Wettable Flank Step Height	A4	0.10	-	0.19	

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.