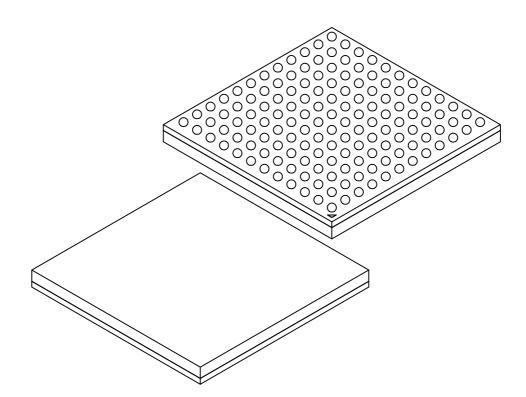
144-Ball Thin Fine-Pitch Ball Grid Array Package (HQB) - 10x10x1.2 mm Body [TFBGA]

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



	Units		MILLIMETERS		
Dimensior	n Limits	MIN	NOM	MAX	
Number of Terminals	Ν	144			
Pitch	е		0.80 BSC		
Overall Height	Α	-	-	1.20	
Ball Height	A1	0.22	-	0.32	
Mold Thickness	М	0.53 REF			
Substrate Thickness	S	0.246 REF			
Overall Length	D		10.00 BSC		
Ball Array Length	D2	8.80 BSC			
Overall Width	Е	10.00 BSC			
Ball Array Width	E2		8.80 BSC		
Ball Diameter	b	0.32	_	0.42	

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.