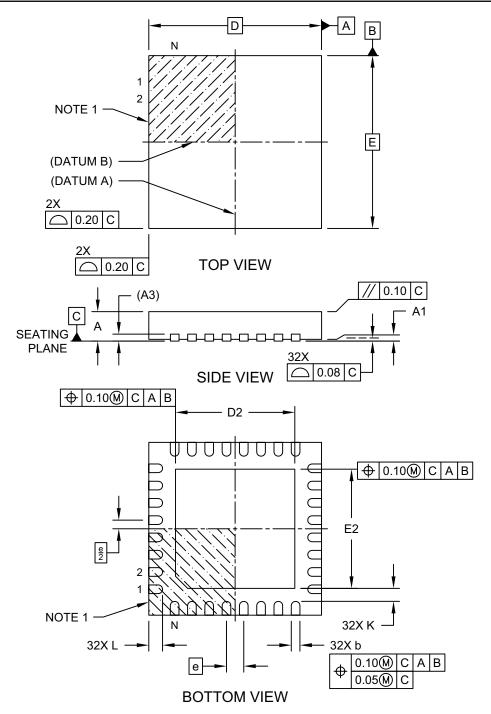


32-Lead Very Thin Plastic Quad Flat, No Lead Package (MQ) - 5x5x0.9 mm Body [VQFN]

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

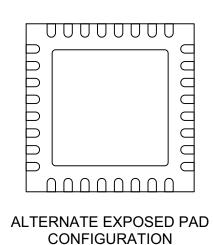


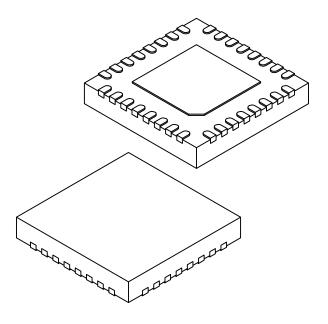
Microchip Technology Drawing C04-160B MQ Sheet 1 of 2



32-Lead Very Thin Plastic Quad Flat, No Lead Package (MQ) - 5x5x0.9 mm Body [VQFN]

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	32				
Pitch	е	0.50 BSC				
Overall Height	Α	0.80	0.90	1.00		
Standoff	A1	0.00	0.02	0.05		
Terminal Thickness	A3	0.20 REF				
Overall Width	Е	5.00 BSC				
Exposed Pad Width	E2	3.70	ı	3.90		
Overall Length	D	5.00 BSC				
Exposed Pad Length	D2	3.70	-	3.90		
Terminal Width	b	0.18	0.25	0.30		
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.

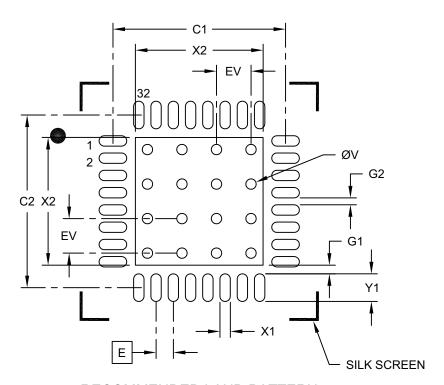
REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-160B MQ Sheet 2 of 2



32-Lead Very Thin Plastic Quad Flat, No Lead Package (MQ) - 5x5 mm Body [VQFN]

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



RECOMMENDED LAND PATTERN

Units		MILLIMETERS			
Dimension Limits		MIN	NOM	MAX	
Contact Pitch	Е	0.50 BSC			
Optional Center Pad Width	X2			3.70	
Optional Center Pad Length	Y2			3.70	
Contact Pad Spacing	C1		5.00		
Contact Pad Spacing	C2		5.00		
Contact Pad Width (X32)	X1			0.30	
Contact Pad Length (X32)	Y1			0.80	
Contact Pad to Center Pad (X32)	G1	0.25			
Contact Pad to Contactr Pad (X28)	G2	0.20			
Thermal Via Diameter	V		0.30		
Thermal Via Pitch	EV		1.00	·	

Notes:

- 1. Dimensioning and tolerancing per ASME Y14.5M
 - BSC: Basic Dimension. Theoretically exact value shown without tolerances.
- 2. For best soldering results, thermal vias, if used, should be filled or tented to avoid solder loss during reflow process

Microchip Technology Drawing C04-2160C MQ