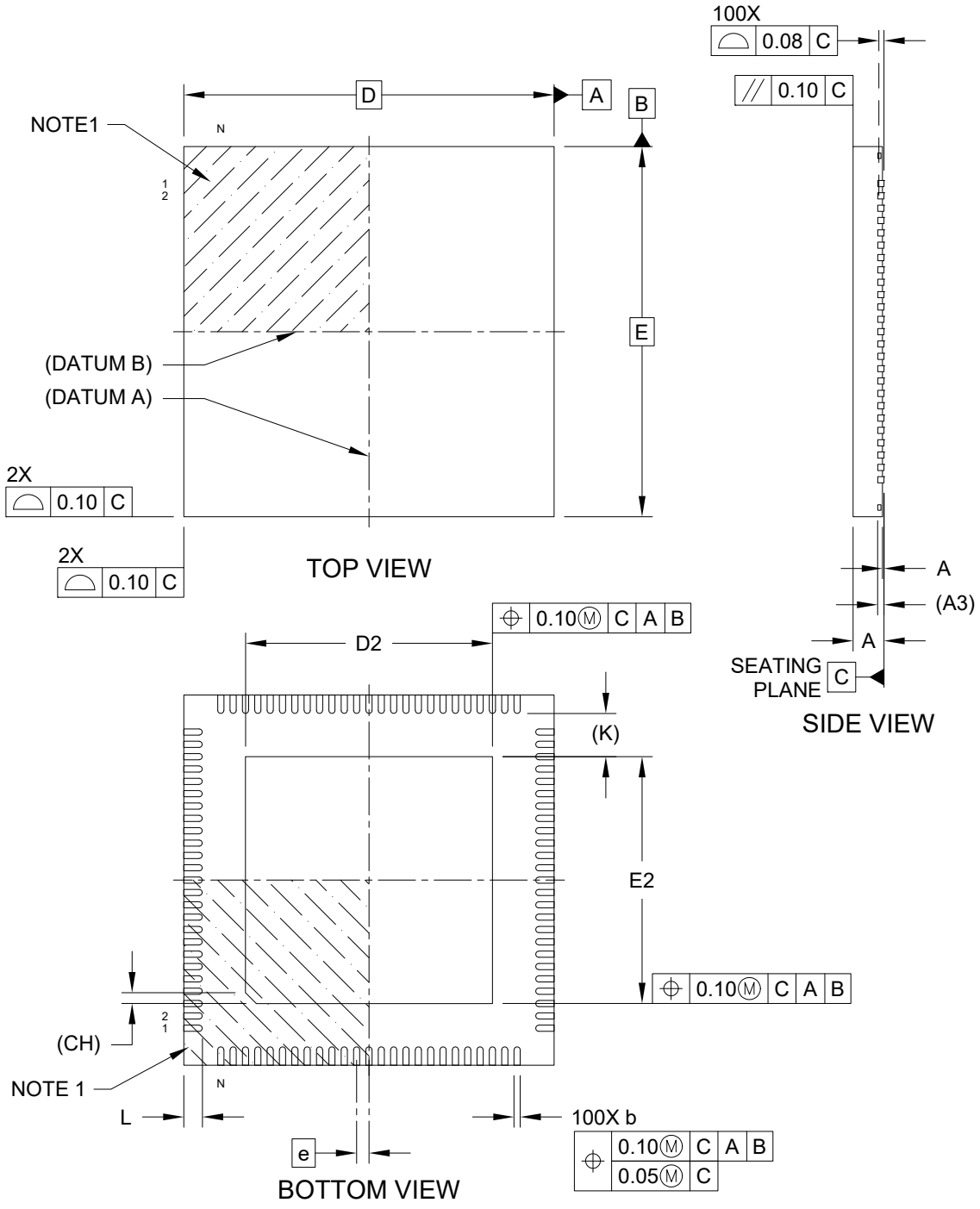
100-Lead Very Thin Plastic Quad Flat, No Lead Package (KD) - 12x12 mm Body [VQFN]

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



100-Lead Very Thin Plastic Quad Flat, No Lead Package (KD) - 12x12 mm Body [VQFN]

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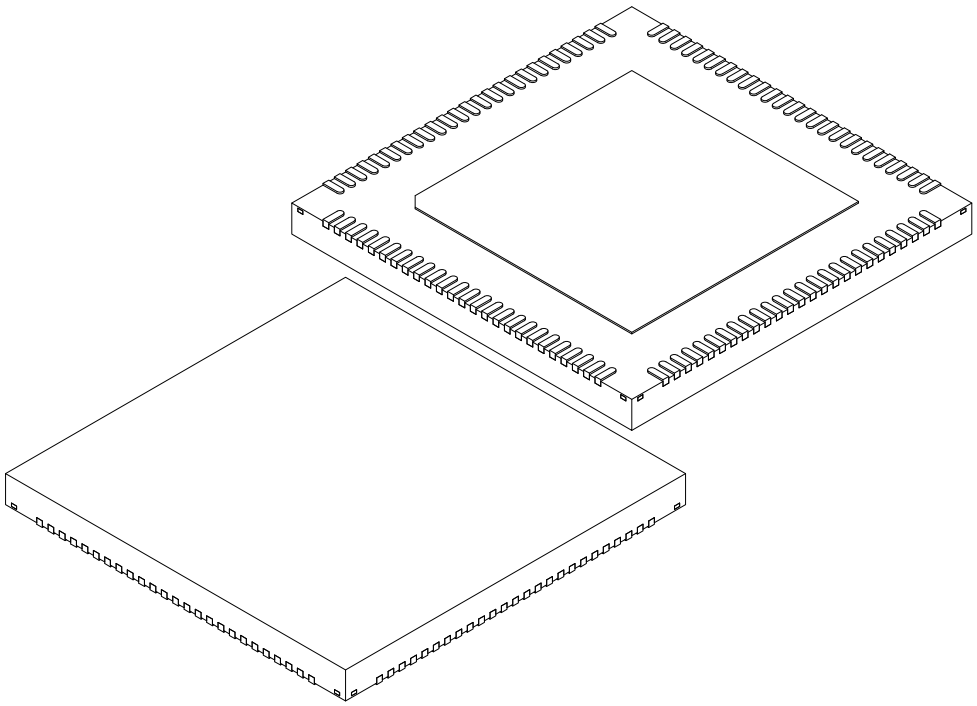


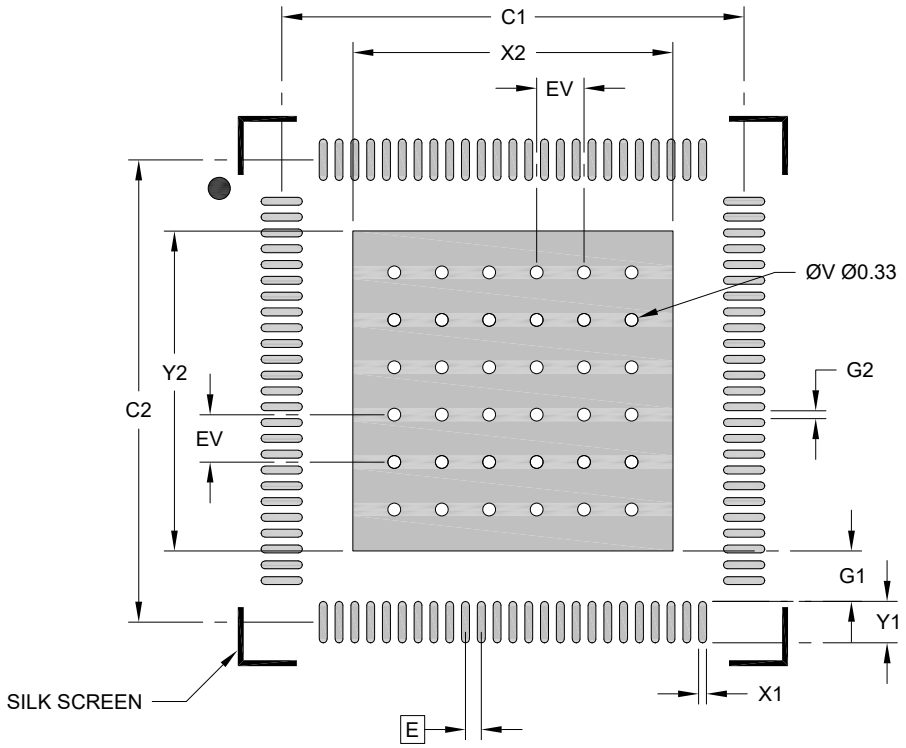
Units		MILLIMETERS		
Dimension Limits		MIN	NOM	MAX
Number of Terminals	N		100	
Pitch	e		0.40 BSC	
Overall Height	A	0.80	0.90	1.00
Standoff	A1	0.00	0.02	0.05
Terminal Thickness	A3		0.20 REF	
Overall Length	D		12.00 BSC	
Exposed Pad Length	D2	7.90	8.00	8.10
Overall Width	E		12.00 BSC	
Exposed Pad Width	E2	7.90	8.00	8.10
Terminal Width	b	0.15	0.20	0.25
Terminal Length	L	0.50	0.60	0.70
Terminal-to-Exposed-Pad	K		1.40 REF	
Exposed Pad Corner Chamfer	CH		0.35 REF	

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.

100-Lead Very Thin Plastic Quad Flat, No Lead Package (KD) - 12x12 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	E		0.40 BSC	
Center Pad Width	X2			8.10
Center Pad Length	Y2			8.10
Contact Pad Spacing	C1		11.70	
Contact Pad Spacing	C2		11.70	
Contact Pad Width (X100)	X1			0.20
Contact Pad Length (X100)	Y1			1.05
Contact Pad to Center Pad (X100)	G1	1.28		
Contact Pad to Contact Pad (X96)	G2	0.20		
Thermal Via Diameter	V		0.33	
Thermal Via Pitch	EV		1.20	

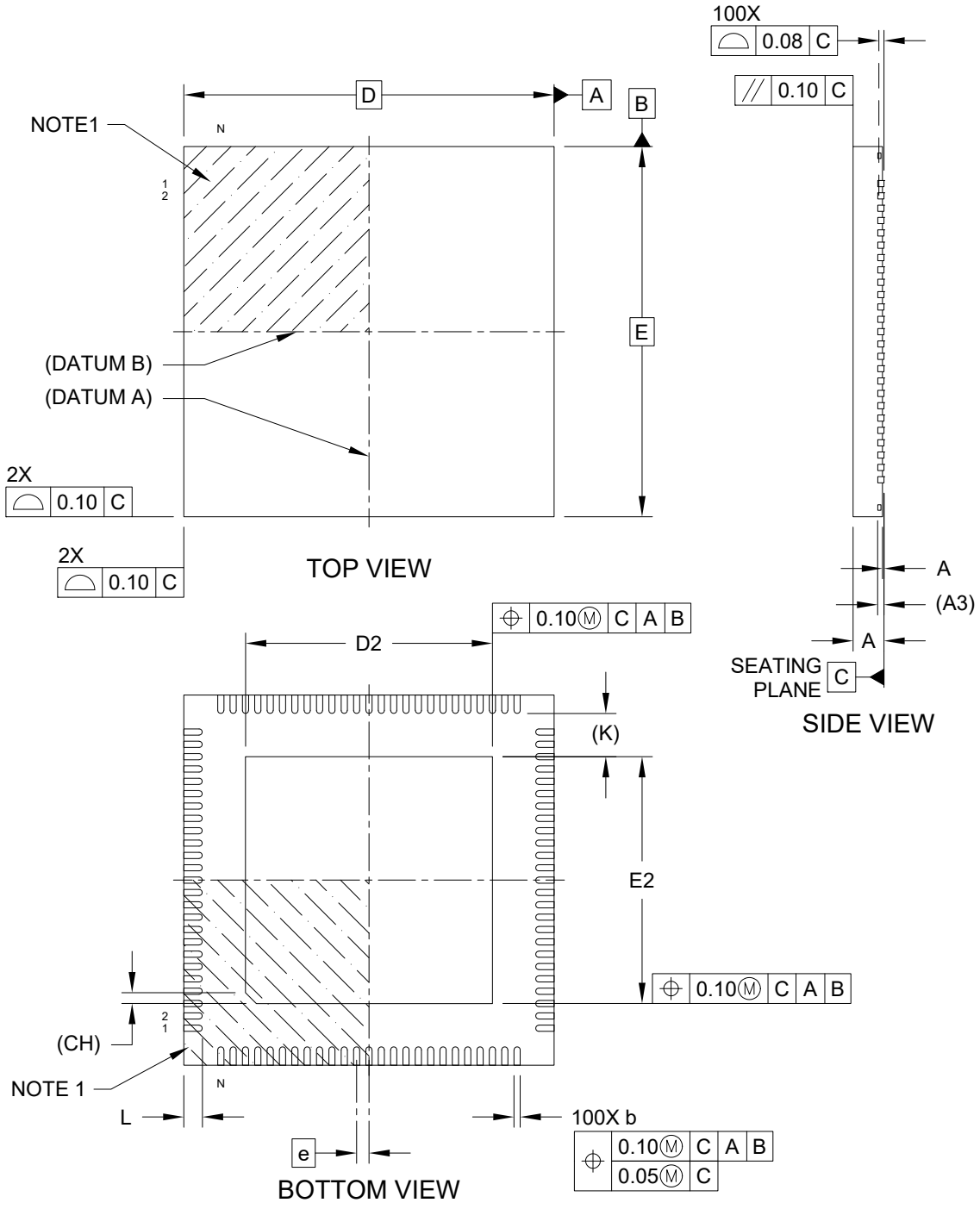
Notes:

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 C04-2407-KD Rev C

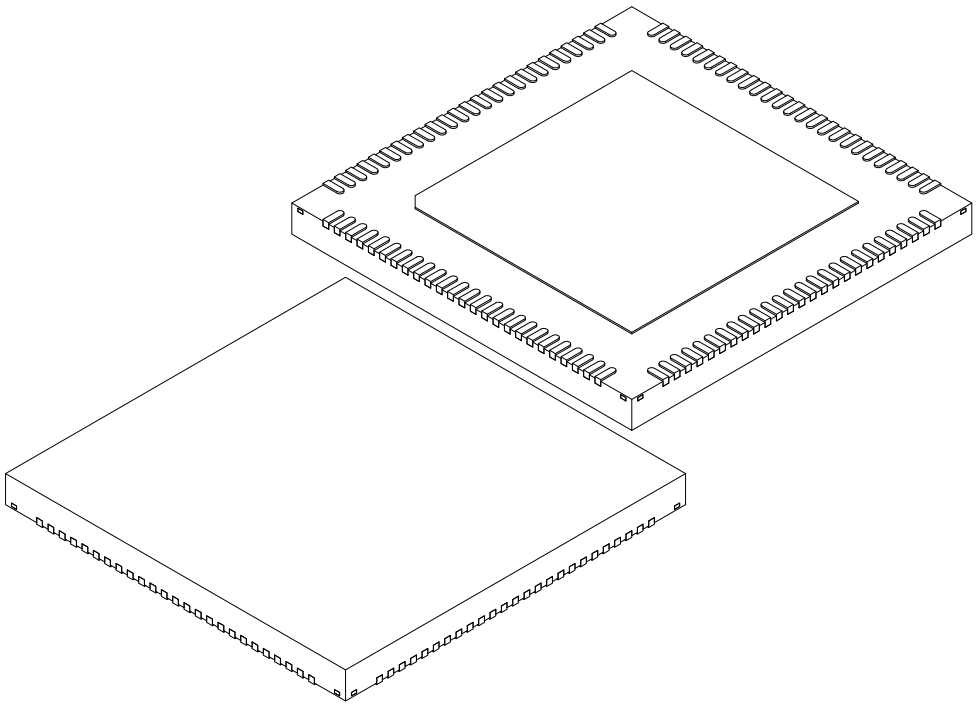
100-Lead Very Thin Plastic Quad Flat, No Lead Package (KDX) - 12x12 mm Body [VQFN]

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



100-Lead Very Thin Plastic Quad Flat, No Lead Package (KDX) - 12x12 mm Body [VQFN]

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



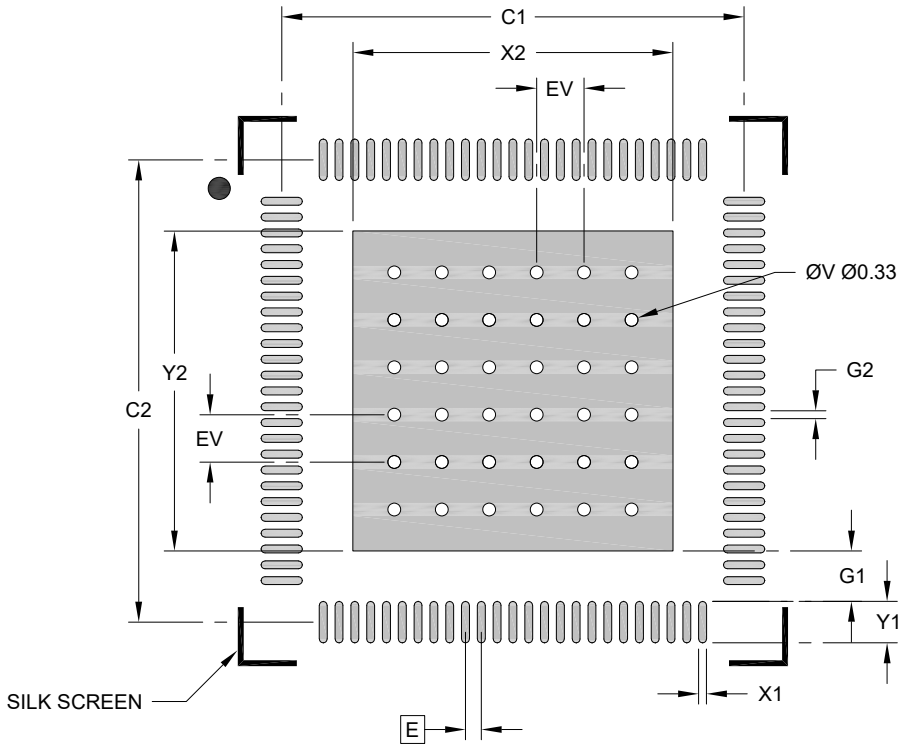
Units		MILLIMETERS		
Dimension Limits		MIN	NOM	MAX
Number of Terminals	N		100	
Pitch	e		0.40 BSC	
Overall Height	A	0.80	0.90	1.00
Standoff	A1	0.00	0.02	0.05
Terminal Thickness	A3		0.20 REF	
Overall Length	D		12.00 BSC	
Exposed Pad Length	D2	7.90	8.00	8.10
Overall Width	E		12.00 BSC	
Exposed Pad Width	E2	7.90	8.00	8.10
Terminal Width	b	0.15	0.20	0.25
Terminal Length	L	0.50	0.60	0.70
Terminal-to-Exposed-Pad	K		1.40 REF	
Exposed Pad Corner Chamfer	CH		0.35 REF	

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.

100-Lead Very Thin Plastic Quad Flat, No Lead Package (KDX) - 12x12 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	E		0.40 BSC	
Center Pad Width	X2			8.10
Center Pad Length	Y2			8.10
Contact Pad Spacing	C1		11.70	
Contact Pad Spacing	C2		11.70	
Contact Pad Width (X100)	X1			0.20
Contact Pad Length (X100)	Y1			1.05
Contact Pad to Center Pad (X100)	G1	1.28		
Contact Pad to Contact Pad (X96)	G2	0.20		
Thermal Via Diameter	V		0.33	
Thermal Via Pitch	EV		1.20	

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 C04-2407-KDX Rev C