

General Description

The DSC612PI2A-0130 is a two-output low power MEMS clock generator.

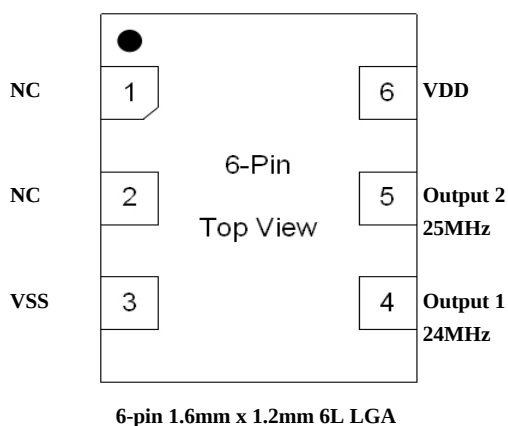
The MEMS based clock generator eliminates the need of external crystal or reference clock.

Refer to [DSC612 master data sheet](#) to read full descriptions.

Features

- Two LVCMOS clock outputs: 24MHz, 25MHz
- Ultra-small package size: 1.6mm x 1.2mm 6L LGA
- High stability: ± 25 ppm
- Temperature range: -40°C to $+85^{\circ}\text{C}$
- Low power consumption
- Wide supply voltage range: 1.71V -3.63V VDD
- Excellent shock and vibration immunity
- High reliability
- Lead free and RoHS compliant

Pin Configuration and Description



Pin Number	Pin Name	Pin Type	Pin Description
1	NC	I	Non-functional, do not connect
2	NC	I	Non-functional, do not connect
3	VSS	Power	Power Supply Ground
4	Output 1	O	24MHz LVCMOS Clock Output
5	Output 2	O	25MHz LVCMOS Clock Output
6	VDD	Power	Power Supply

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<http://www.microchip.com>

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Ordering Information

Ordering Part Number	Temperature Range	High Stability	Shipping	Package
DSC612PI2A-0130	-40°C to +85°C	±25ppm	Bag	1.6mm x 1.2mm 6L LGA
DSC612PI2A-0130T	-40°C to +85°C	±25ppm	Tape and Reel	1.6mm x 1.2mm 6L LGA

Devices are Green and RoHS compliant. Sample material may have only a partial top mark.

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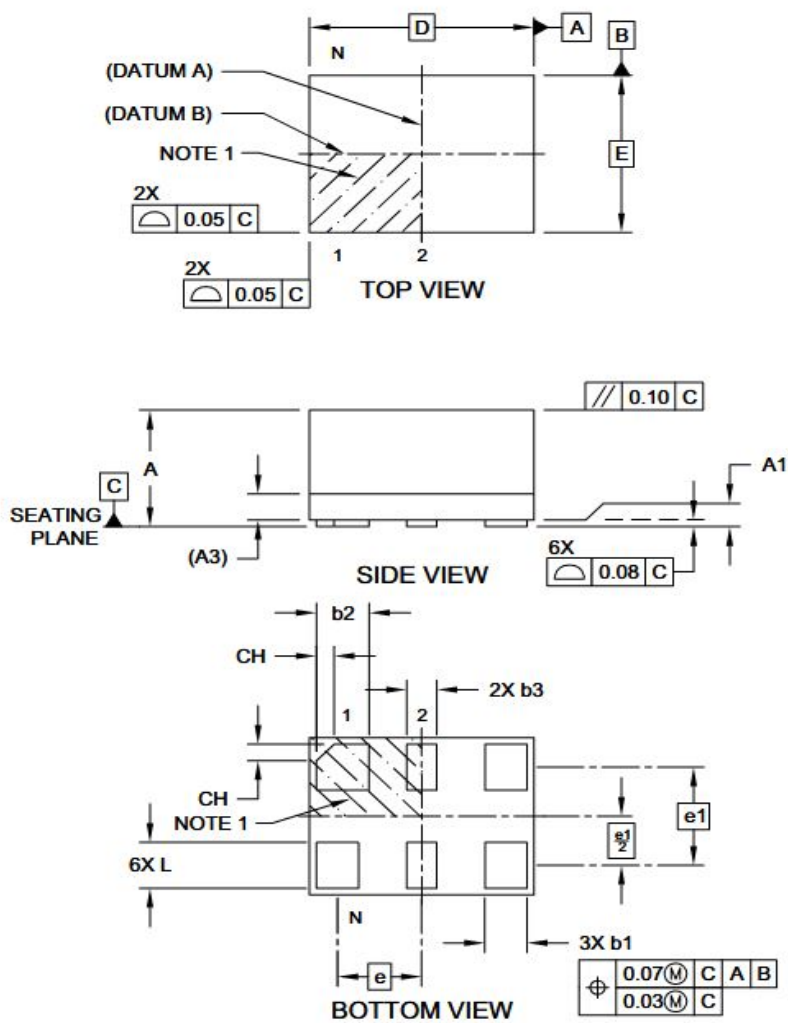
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6-Lead 1.6 mm x 1.2 mm VFLGA Package Outline and Recommended Land Pattern

6-Lead Very Thin Fine Pitch Land Grid Array (AVA) - 1.6x1.2 mm Body [VFLGA]

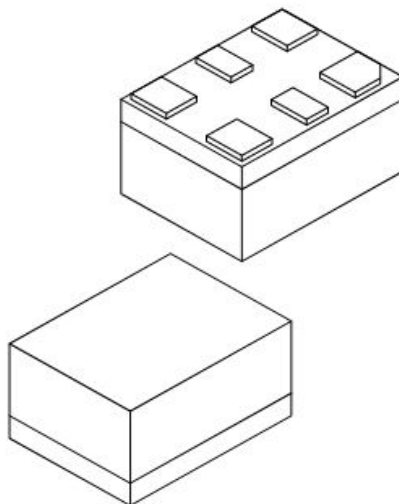
Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



Microchip Technology Drawing C04-1203A Sheet 1 of 2

6-Lead Very Thin Fine Pitch Land Grid Array (AVA) - 1.6x1.2 mm Body [VFLGA]

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Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Number of Terminals	N	6		
Terminal Pitch	e	0.60 BSC		
Terminal Pitch	e1	0.75 BSC		
Overall Height	A	0.79	0.84	0.89
Standoff	A1	0.00	0.02	0.05
Substrate Thickness (with Terminals)	A3	0.20 REF		
Overall Length	D	1.60 BSC		
Overall Width	E	1.20 BSC		
Terminal Width	b1	0.25	0.30	0.35
Terminal Width	b2	0.325	0.375	0.425
Terminal Width	b3	0.20	0.25	0.30
Terminal Length	L	0.30	0.35	0.40
Terminal 1 Index Chamfer	CH	-	0.125	-

Notes:

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

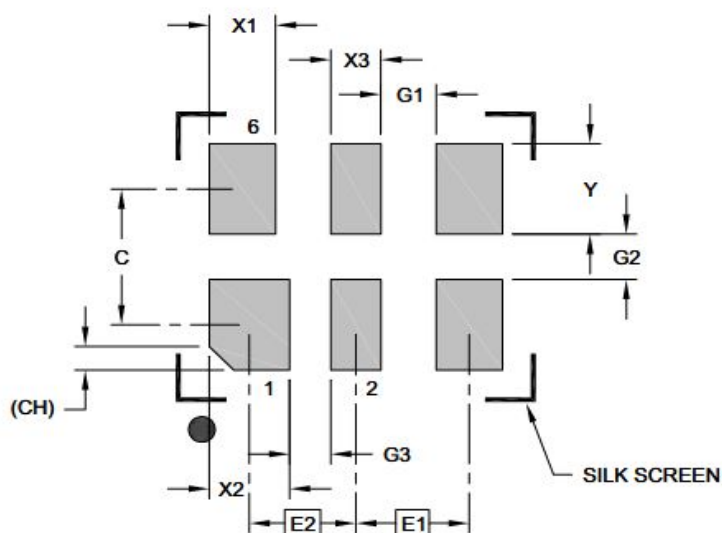
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

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

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6-Lead Very Thin Fine Pitch Land Grid Array (AVA) - 1.6x1.2 mm Body [VFLGA]

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

**RECOMMENDED LAND PATTERN**

Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Contact Pitch (X3)	E1		0.60 BSC	
Contact Pitch	E2		0.56 BSC	
Contact Spacing	C		0.75	
Contact Width (X3)	X1			0.35
Contact Width	X2			0.43
Contact Width (X2)	X3			0.27
Contact Pad Length (X6)	Y			0.50
Space Between Contacts (X4)	G1	0.29		
Space Between Contacts (X3)	G2	0.25		
Space Between Contacts	G3	0.22		
Contact 1 Index Chamfer	CH	0.13 X 45° REF		

Notes:

1. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing C04-3203A