MICROCHIP

DSC613PL3A-0106

Three-Output Low Power MEMS Clock Generator

General Description

The DSC613PL3A-0106 is a three-output low power MEMS clock generator.

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

Refer to DSC613 master data sheet to read full descriptions.

Features

- Three LVCMOS clock outputs: 19.2MHz, 24MHz, 32.768kHz
- Ultra-small package size: 1.6mm x 1.2mm 6L LGA
- High stability: ±20ppm
- Temperature range: -40° C to $+105^{\circ}$ C
- Low power consumption: ~5.2mA (all outputs active)
- Wide supply voltage range: 1.71V -3.63V VDD
- Excellent shock and vibration immunity
- High reliability
- Lead free and RoHS compliant
- AEC-Q100 automotive grade available

Pin Configuration and Description

				I	Pin Number	Pin Name	Pin Type	Pin Description
OE-1/2	1		6	VDD	1	OE-1/2	I	Output Enable H = Output Active L = Output Disabled (High Impedance)
Output 3 32.768kHz		6-Pin		Output 2 24MHz Output 1	2	Output 3	0	32.768kHz LVCMOS Clock Output
	2	Top View	5		3	VSS	Power	Power Supply Ground
VSS	3]	4		4	Output 1	О	19.2MHz LVCMOS Clock Output Controlled by Pin 1 (OE-1/2)
			19.2MHz	5	Output 2	О	24MHz LVCMOS Clock Output Controlled by Pin 1 (OE-1/2)	
6-pin 1.6mm x 1.2mm 6L LGA				6	VDD	Power	Power Supply	

ClockWorks is a registered trademark of Microchip Technology Inc.

Microchip Technology Inc.

November 15, 2018 7103 http://www.microchip.com

Revision 1.0 tcghelp@microchip.com

Ordering Information

Ordering Part Number	Temperature Range	High Stability	Shipping	Package
DSC613PL3A-0106	-40°C to $+105$ °C	±20ppm	Bag	1.6mm x 1.2mm 6L LGA
DSC613PL3A-0106T	-40° C to $+105^{\circ}$ C	±20ppm	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.

Microchip makes no representations or warranties with respect to the accuracy or completeness of the information furnished in this data sheet. This information is not intended as a warranty and Microchip does not assume responsibility for its use. Microchip reserves the right to change circuitry, specifications and descriptions at any time without notice. No license, whether express, implied, arising by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Microchip's terms and conditions of sale for such products, Microchip assumes no liability whatsoever, and Microchip disclaims any express or implied warranty relating to the sale and/or use of Microchip products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right.

Microchip products are not designed or authorized for use as components in life support appliances, devices or systems where malfunction of a product can reasonably be expected to result in personal injury. Life support devices or systems are devices or systems that (a) are intended for surgical implant into the body or (b) support or sustain life, and whose failure to perform can be reasonably expected to result in a significant injury to the user. A Purchaser's use or sale of Microchip Products for use in life support appliances, devices or systems is a Purchaser's own risk and Purchaser agrees to fully indemnify Microchip for any damages resulting from such use or sale.

© 2018 Microchip Technology Inc.



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



