MICROCHIP

DSC613RI2A-0134

Three-Output Low Power MEMS Clock Generator

General Description

The DSC613RI2A-0134 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: 24MHz, 27MHz, 32.768kHz
- Ultra-small package size: 2.5mm x 2.0mm 6L LGA
- High stability: ±25ppm
- Temperature range: -40° C to $+85^{\circ}$ 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

	•				Pin Number	Pin Name	Pin Type	Pin Description
SLEEP-1/2	1		6	VDD	1	SLEEP-1/2	Ι	H = Output Enabled L = Output and associated PLL Disabled
Output 3		6-Pin 2 Top View 3	5	Output 2 27MHz	2	Output 3	0	32.768kHz LVCMOS Clock Output
32.768kHz	2				3	VSS	Power	Power Supply Ground
VSS	3		4	Output 1 24MHz	4	Output 1	О	24MHz LVCMOS Clock Output Controlled by Pin 1 (SLEEP-1/2)
					5	Output 2	О	27MHz LVCMOS Clock Output Controlled by Pin 1 (SLEEP-1/2)
	6-pin 2.5mm x 2.0mm 6L LGA				6	VDD	Power	Power Supply

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Revision 1.0 tcghelp@microchip.com

Ordering Information

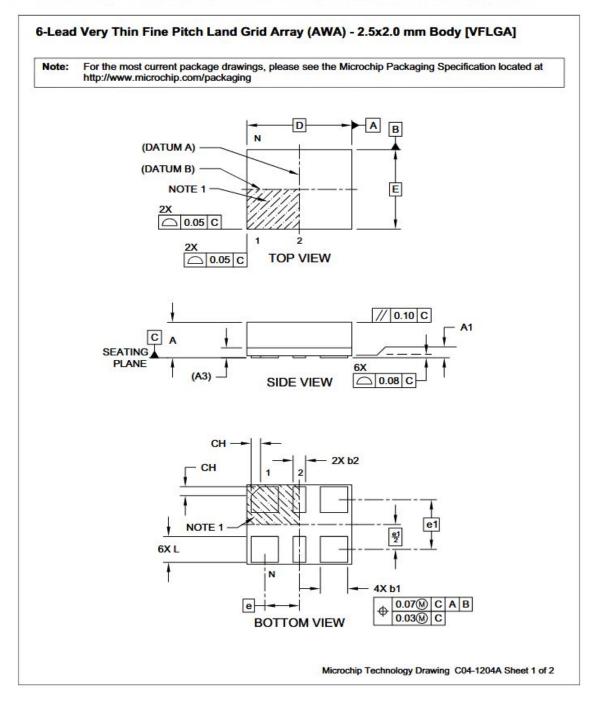
Ordering Part Number	Temperature Range	High Stability	Shipping	Package
DSC613RI2A-0134	-40° C to $+85^{\circ}$ C	±25ppm	Tube	2.5mm x 2.0mm 6L LGA
DSC613RI2A-0134T	-40°C to +85°C	±25ppm	Tape and Reel	2.5mm x 2.0mm 6L LGA

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

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6-Lead 2.5 mm x 2.0 mm VFLGA Package Outline and Recommended Land Pattern

