

# DSC612RI1A-0133

#### **Two-Output Low Power MEMS Clock Generator**

### **General Description**

The DSC612RI1A-0133 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: 48MHz, 32.768kHz
- Ultra-small package size: 2.5mm x 2.0mm 6L LGA
- High stability: ±50ppm
- Temperature range: -40°C to +85°C
- Low power consumption: ~5mA (both 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 Number	Pin Name	Pin Type	Pin Description
OE-1	•	6	VDD	1	OE-1	Ι	Output Enable H = Output Active L = Output Disabled (High Impedance)
OE-2	6-Pin 2 Top Viev	5	Output 2 32.768kHz	2	OE-2	Ι	Output Enable H = Output Active L = Output Disabled (High Impedance)
		v	52.700K11Z	3	VSS	Power	Power Supply Ground
VSS	3	4	Output 1 48MHz	4	Output 1	0	48MHz LVCMOS Clock Output Controlled by Pin 1 (OE-1)
	6-pin 2.5mm x 2.0mm 6L LGA			5	Output 2	0	32.768kHz LVCMOS Clock Output Controlled by Pin 2 (OE-2)
				6	VDD	Power	Power Supply

#### **Pin Configuration and Description**

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Revision 1.0 tcghelp@microchip.com

## **Ordering Information**

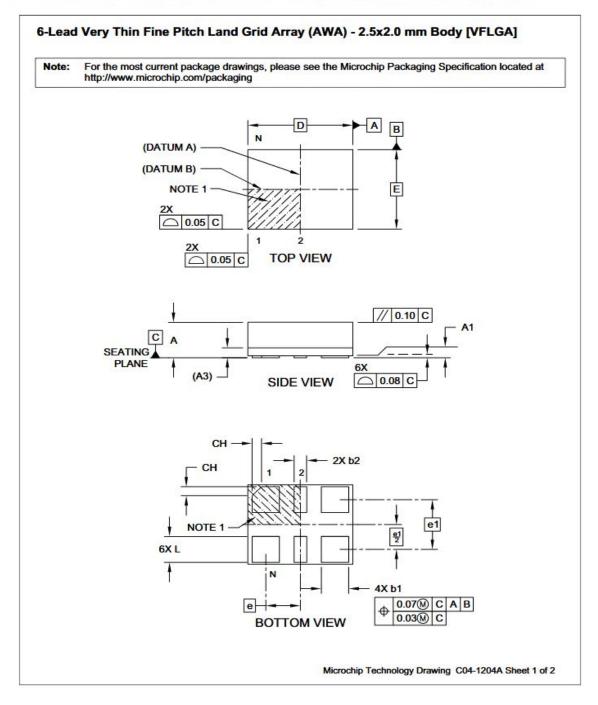
Ordering Part Number	Temperature Range	High Stability	Shipping	Package	
DSC612RI1A-0133	$-40^{\circ}$ C to $+85^{\circ}$ C	±50ppm	Tube	2.5mm x 2.0mm 6L LGA	
DSC612RI1A-0133T	-40°C to +85°C	±50ppm	Tape and Reel	2.5mm x 2.0mm 6L LGA	

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

