2) ovaga

DSC1001DI1-025.0000

Data Sheet

MEMS OSCILLATOR, LOW POWER, -40C-85C, 50PPM 4 VDFN 2.0X2.5MM TUBE 70Y7381

Manufacturers	Microchip Technology, Inc
Package/Case	VDFN-4
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	
Diago a hart DEO fa	r DSC1001DI1-025.0000 or <u>Email to us: sales@</u>



Images are for reference only

Please submit RFQ for DSC1001DI1-025.0000 or <u>Email to us: sales@ovaga.com</u> We will contact you in 12 hours.

<u>RFQ</u>

General Description

The DSC1001 is a silicon MEMS based CMOS oscillator offering excellent jitter and stability performance over a wide range of supply voltages and temperatures. The device operates from 1 to 150MHz with supply voltages between 1.8 to 3.3 Volts and temperature ranges up to -40°C to 105°C. The DSC1001 incorporates an all silicon resonator that is extremely robust and nearly immune to stress related fractures, common to crystal based oscillators. Without sacrificing the performance and stability required of today's systems, a crystal-less design allows for a higher level of reliability, making the DSC1001 ideal for rugged, industrial, and portable applications where stress, shock, and vibration can damage quartz crystal based systems. Available in industry standard packages, the DSC1001 can be "dropped-in" to the same PCB footprint as standard crystal oscillators.

Create an application specific part and order samples with the CLOCKWORKS CONFIGURATOR tool.

Features

- Frequency Range: 1 to 150MHz
- Exceptional Stability over Temperature
- Operating voltage of 1.7V to 3.6V
- Operating Temperature Range
- Ext. Industrial -40°C to 105°C
- Industrial -40°C to 85°C
- Ext. Commercial -20°C to 70°C
- Commercial 0°C to 70°C
- Low Operating and Standby Current
- 5mA Operating (40MHz)
- 15µA Standby
- Ultra Miniature Footprint
- 2.5mm x 2.0mm x 0.85mm
- $3.2\text{mm}\,x\,2.5\text{mm}\,x\,0.85\text{mm}$
- 5.0mm x 3.2mm x 0.85mm
- $7.0\text{mm}\,x\,5.0\text{mm}\,x\,0.85\text{mm}$
- MIL-STD 883 Shock and Vibration Resistant
- Pb-Free, RoHS, Reach SVHC Compliant
- AEC-Q100 Reliability Qualified



Related Products



DSC1001DL5-025.0000 Microchip Technology, Inc VDFN-4



DSC1001CL2-025.0000T Microchip Technology, Inc VDFN-4



DSC1001DI1-033.3333T Microchip Technology, Inc

DSC1123CI2-200.0000

Microchip Technology, Inc

DSC8001DL5

VDFN-6

VDFN-4

Microchip Technology, Inc VDFN-4

DSC1001AE1-003.6864T



Microchip Technology, Inc 2.0 x 1.6 x 0.85 mm

DSC6083CE2A-032K768



Microchip Technology, Inc VDFN-4



DSC1101CI5-100.0000T

Microchip Technology, Inc 4-SMD, No Lead