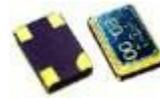


**5V 7 x 5mm SMD Clock Oscillators**

- Miniature 7.0 x 5.0 x 1.4mm hermetically-sealed package
- Frequency Range 1.0MHz to 80MHz
- Tristate (Enable/Disable) function as standard
- Supply voltage 5.0 Volts



**DESCRIPTION**

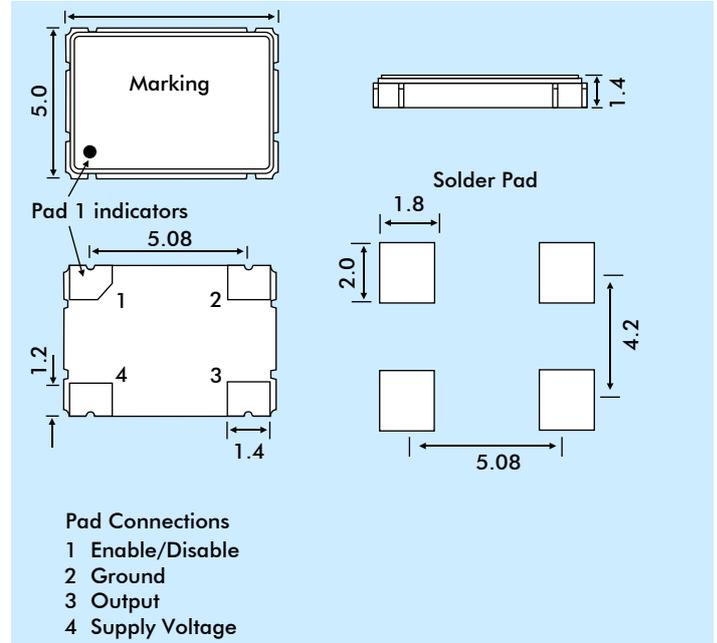
EQXO-915 miniature oscillators consist of a TTL/CMOS-compatible hybrid circuit together with a miniature quartz crystal packaged in a low-profile, industry-standard ceramic package. The high quality design and materials employed provide a highly reliable clock oscillator in a miniature package while mass production methods ensure that the EQXO-915 provides a cost-effective oscillator

**SPECIFICATION**

Frequency Range	1.000MHz to 80.0MHz
Supply Voltage:	5.0 Volts ±10%
Output Logic:	HCMOS/LSTTL
Frequency Stability*	
0° to +50°C:	from ±10ppm
-40 to +85°C:	from ±30ppm
Rise/Fall Time	5ns max.
Output Voltage:	
HIGH '1':	90% Vdd minimum
LOW '0':	10% Vdd maximum
Output Load:	15pF
Duty Cycle:	50%±10%
Supply Current:	See table
Operating Temperature	
0~70°C (Commercial)	
-40~+85 (Industrial)	
-55 ~ 105°C	
Storage Temperature:	-55~+125°C
Startup Time:	5ms max.
Ageing:	±3ppm max., first year
Tristate Function (Pad 1):	Enable time- 150µS max.
Output (Pad 3) is active if Pad 1 is not connected or a voltage to Pad 1 is 'HIGH'. Output is high impedance when 'LOW' or GROUND is applied to Pad 1.	

\* Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration.  
 Note: Parameters are measured at ambient temperature of 25°C, supply voltage as stated and a load of 15pF

**OUTLINE & DIMENSIONS**

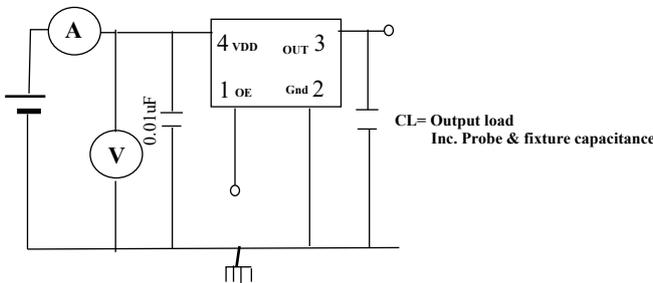


**CURRENT CONSUMPTION**

10mA max

**ENVIRONMENTAL PERFORMANCE SPECIFICATION**

RoHS Status:	Compliant
Storage Temperature Range:	-50° to +100°C
Humidity:	85% RH, 85°C for 48 hours
Hermetic Seal:	Leak rate 2x10 <sup>-8</sup> ATM -cm <sup>3</sup> /s max.
Solderability:	MIL-STD-202F Method 208E
Reflow:	260°C for 10 sec (see diagram)
Vibration:	MIL-STD-202F Method 204, 35g, 50 to 2000Hz
Shock	Drop Test
	Height 100cm onto 3cm thick block x3



NB: Pin1 connected to VDD or floating, connect to ground stops oscillation

**PART NUMBERING**Example: 16.000MHz EQXO915 50 C T

Frequency

Series Designation XO915

Stability\*

100 =  $\pm 100$ ppm50 =  $\pm 50$ ppm25 =  $\pm 25$ ppm

Operating Temp. Range

C =  $0^{\circ}\sim+70^{\circ}\text{C}$ I =  $-40^{\circ}\sim+85^{\circ}\text{C}$ UIE =  $-55\sim+105^{\circ}\text{C}$ 

Tristate Function

**SOLDER TEMPERATURE PROFILE**