EUROQUARTZ

EQXO-535

5V 5 x 3.2mm SMD Clock Oscillators

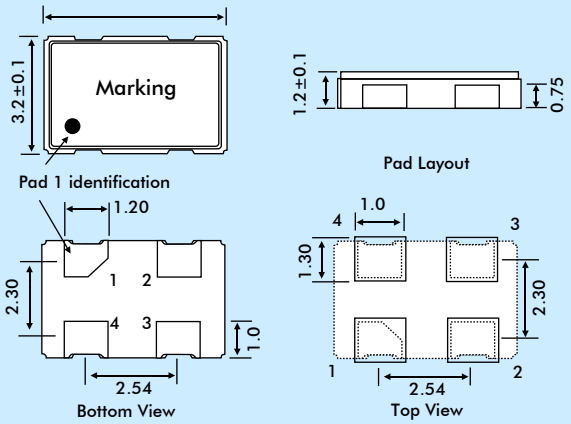
- **Miniature 5.0 x 3.2 x 1.4mm hermetically-sealed package**
- **Frequency Range1.0MHz to 80MHz**
- **Tristate (Enable/Disable) function as standard**
- **Supply voltage 5.0 Volts**

RoHS

DESCRIPTION

EQXO-535 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-535 provides a cost-effective oscillator

OUTLINE & DIMENSIONS



SPECIFICATION

Frequency Range	1.000MHz to 50.0MHz
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' (70%VDD min). Output is high impedance when 'LOW' or GROUND is applied to Pad 1. (30%VDD min.)

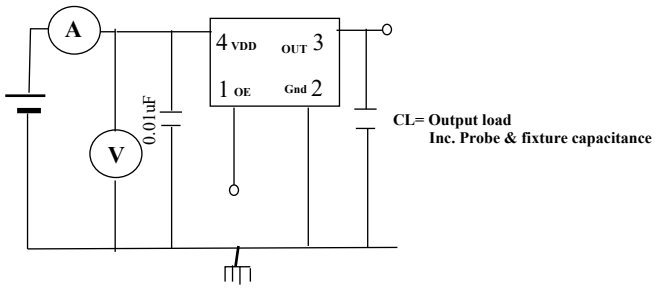
* Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration.
Note: Parameters are measured at ambient temperature of 25°C, supply voltage as stated and a load of 15pF

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^{-8} ATM -cm^3/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

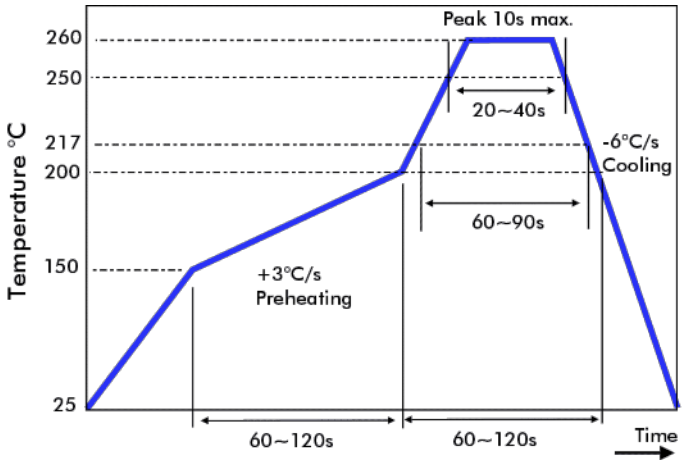
EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 info@euroquartz.co.uk www.euroquartz.co.uk

PART NUMBERING

Example: 16.000MHz EQXO535 50 C T

Frequency
Series Designation XO915
Stability*
100 = ±100ppm
50 = ±50ppm
25 = ±25ppm
Operating Temp. Range
C = 0°~+70°C
I = -40°~+85°C
UIE= -55+105°C
Tristate Function

SOLDER TEMPERATURE PROFILE



EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 info@euroquartz.co.uk www.euroquartz.co.uk