XO327J OSCILLATOR

3.2 x 1.5 x 0.9mm 4 Pad SMD — 32.768kHz

DESCRIPTION

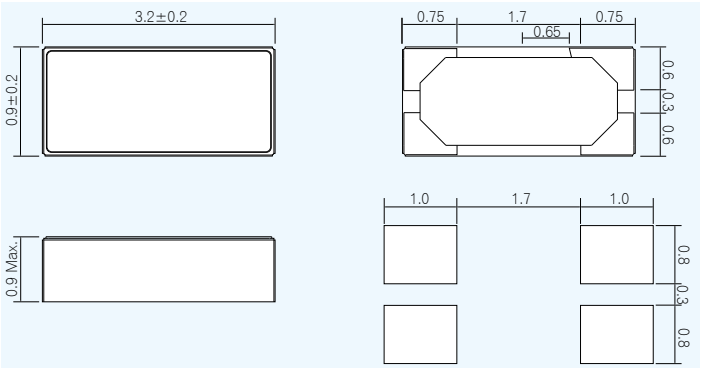
- **Temperature Compensated Oscillator**
- **Industrial Operating Range**
- **3.2x1.5x0.9mm Watch Crystal Package**
- **CMOS Output**

SPECIFICATION

Frequency:	32.768kHz
Output Logic:	CMOS
Frequency Stability:	*See table*
Frequency Tolerance:	±3ppm max. (+25°C, Vdd = 3.3V)
Operating Temp Range:	-40° to +85°C
Input Voltage:	+1.5VDC or +3.63VDC †
Output Voltage	
High '1':	90% Vdd max.
Low '0':	10% Vdd min.
Stand-by Control Voltage	
High:	80% Vdd max.
Low:	20% Vdd min.
Load:	CMOS 30pF max.
Rise/Fall Times:	40nsec max. (10% to 90% Vdd)
Symmetry:	40% to 60% at 1/2Vdd
Current Consumption:	1.3µA typ., 2.5µA max.
Stand-by Current:	2.5µA max.
Storage Temperature:	-40°C to +105°C
Frequency Voltage Coefficient:	±1ppm/V max. (Vdd=+1.5V to +3.63V)
Start-up Time:	0.5sec. Max. (+25°C, 3.3V)
Aging:	±3ppm max. (+25°C, 3.3V, first year)

† *Supply Voltage (Vdd) should be set to 0V for 0.5msec. min. for smooth oscillation start-up at 10ms/V max.*

OUTLINE & DIMENSIONS (in mm)



Pad Connections:

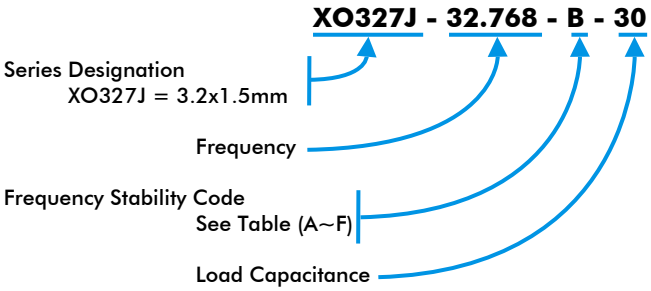
Pad 1: Output Enable
Pad 2: Ground
Pad 3: Output
Pad 4: Input Voltage

Frequency Stability

Stability ±ppm	Temperature Range °C	Order Code
50	-40 to +85	**A**
30	-40 to +85	**B**
25	-40 to +85	**C**
20	-40 to +85	**D**
15	-40 to +85	**E**
10	-40 to +85	**F**

PART NUMBERS

XO327J oscillator part numbers are derived as follows:
Example: XO327J-32.768-B-30



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

Issue 1