

Temperature Compensated Crystal Oscillator

(TCXO / VC-TCXO)

Micro package



AXLE3225 , AXLE3225V

■ Features

- 13 to 26 MHz
- Low power consumption
- Supply voltage available between 2.7 to 5.0V
- Package : Metal lid + Ceramic base
- $3.2 \times 2.5 \times 1.2\text{mm}$

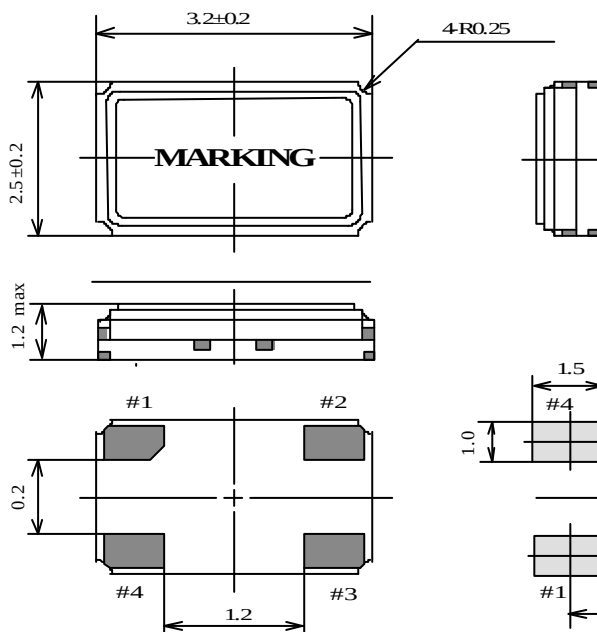
■ Electrical Performance

Description	Symbols	AXLE3225	AXLE3225V
Available Frequency Range	F0	(optionally 6.500) 13.000 ~ 26.000 MHz	
Frequency Stability vs. Operating Temperature (25°C ref.)	dFt/F	$\pm 2.0\text{ppm}, \pm 2.5\text{ppm} (-30 \text{ to } +75^\circ\text{C})$	
Storage Temperature	Tsto	$-40 \text{ to } +85^\circ\text{C}$	
Supply Voltage	Vcc	+2.7 to 5.0V	
Supply Current	Icc	2.0 mA max	
Supply Voltage Change	dFv	$\pm 0.2 \text{ ppm} / V_{cc} \pm 5\%$	
Output Voltage	Vo	0.8Vp-p (Clipped sine wave)	
Load	Zcr	10 K Ω // 10pF	
Load Change	dFz	$\pm 0.2 \text{ ppm} (10\text{K}\Omega \pm 10\% // 10\text{pF} \pm 10\%)$	
Voltage Control	dF/V	-	$\pm 8\text{ppm}, \pm 10\text{ppm}, \pm 15\text{ppm} / +1.5 \pm 1.0\text{V}$
Phase Noise	PN	$-135\text{dBc} / \text{Hz typ.}(1.0\text{KHz})$	

■ Environmental Characteristics

Description	Symbols	Specification
Aging (First Year)		$\pm 1.0 \text{ ppm max/year}$
Shock		Test: 3 times free drop onto concrete board from 150cm height Result: $\pm 1.0 \text{ ppm max}$
Vibration		Test: Frequency 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis Result: $\pm 1.0 \text{ ppm max}$
Solderability		Test: More than 95%, at $235 \pm 5^\circ\text{C}$ for 3 sec
Humidity		Test: 90 to 95% relative humidity at $+60 \pm 3^\circ\text{C}$ for 1000 hours Result: $\pm 1.0 \text{ ppm max}$

■ Outline Drawing & Suggested Pad



TERMINAL	CONNECTION	
	TCXO	VCTCXO
#1	GND	Vcont
#2	GND	GND
#3	OUTPUT	OUTPUT
#4	Vcc	Vcc

■ Suggested Pad (Top View)

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