

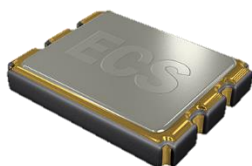
The VC-TXO-35SM is a VC (Voltage Controlled) TCXO (Temperature Compensated Crystal Oscillator) featuring very tight stability over a wide temperature range. The small subminiature SMD ceramic package measures 3.2 x 5.0 x 1.5 mm. The voltage control has a tuning range of  $\pm 5$  ppm minimum. The low profile package is ideal for wireless communications applications.

## VC-TXO-35SM Series VC-TCXO

[Request a Sample](#)

### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

VC-TXO-35SM



- Highly stable output
- Wide temperature range
- Small Footprint
- RoHS Compliant/PbFree
- Voltage control function
- Tape & Reel (1,000 pcs.)

Parameters	Conditions	VC-TXO-35SM			Units
		MIN	TYP	MAX	
<b>Frequency Range</b>		12.000		26.000	MHz
<b>Frequency Stability</b>	Option A -20 ~ +75°C			$\pm 1.5$	PPM
	Option B -30 ~ +75°C			$\pm 2.5$	PPM
	Option C -20 ~ +75°C			$\pm 2.5$	PPM
	Option D -30 ~ +80°C			$\pm 2.5$	PPM
<b>Supply Voltage Change</b>	+3V $\pm 5\%$			$\pm 0.3$	PPM
<b>Load Change</b>	10k $\Omega$ $\pm 10\%$ // 10pF $\pm 10\%$			$\pm 0.2$	PPM
<b>Aging</b>	Per Year @ +25°C $\pm 3^\circ\text{C}$			$\pm 1.0$	PPM
<b>Storage Temperature</b>		-40		+85	°C
<b>Supply Voltage</b>	+3.0V DC Nominal	+2.85	+3.0	+3.15	V DC
<b>Input Current</b>	Without Load			1.5	mA
<b>Output Voltage</b>	Clipped Sine Wave (DC-Cut)	0.8			Vp-p
<b>Output Load</b>	10k $\Omega$ $\pm 10\%$ // 10pF $\pm 10\%$				
<b>Frequency Control Range</b>	+1.5 VDC $\pm 1\text{V}$ Positive Slope	$\pm 9$		$\pm 15$	PPM
<b>Control Voltage</b>		+0.5	+1.5	+2.5	V

### Part Numbering Guide: Example VC-TXO-35SM-128-B-TR

Series - Frequency Abbreviations - Frequency Stability - Packaging

VC-TXO-35SM

128 = 12.8 MHz

A =  $\pm 1.5$  ppm -20 ~ +75°C  
 B =  $\pm 2.5$  ppm -30 ~ +75°C  
 C =  $\pm 2.5$  ppm -20 ~ +75°C  
 D =  $\pm 2.5$  ppm -30 ~ +80°C

TR = Tape & Reel  
 1K/Reel

**Package Dimensions (mm)**

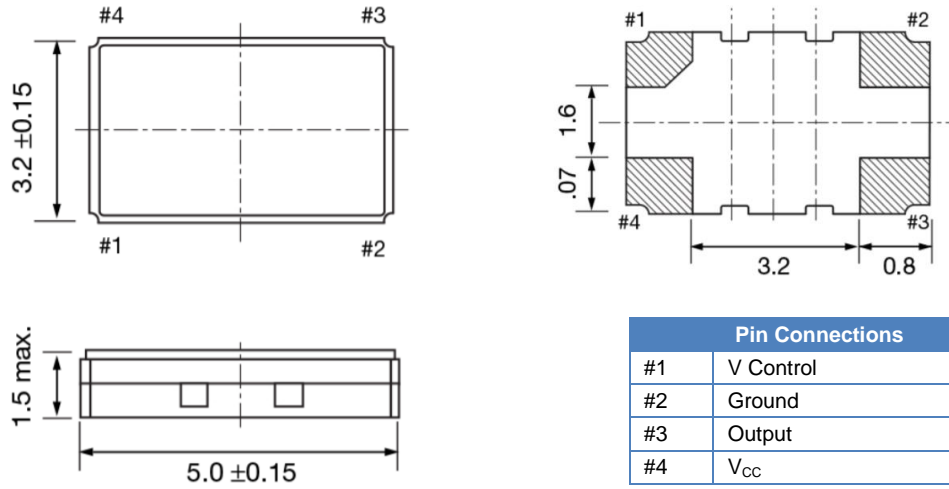


Figure 1) Top, Side, and Bottom views

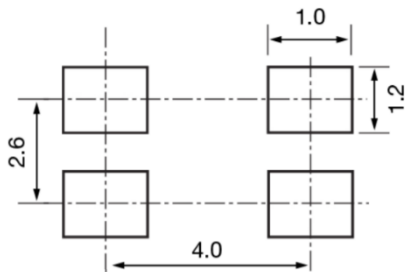


Figure 2) Land Pattern

# Mouser Electronics

Authorized Distributor

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[ECS-VC-TXO-35SM-192-B-TR](#) [ECS-VC-TXO-35SM-19.44-B-TR](#) [ECS-VC-TXO-35SM-168-B-TR](#) [ECS-VC-TXO-35SM-128-B-TR](#)