

VC-TXO-23SM Series

VC-TCXO

The miniature VC-TXO-23SM is a compact SMD VC-TCXO. The 3.2 x 2.5 mm ceramic package is ideal for today's SMD manufacturing environment.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- Low profile
- 3.2 x 2.5 mm Footprint
- Highly stable output
- PbFree/RoHS Compliant

Parameters	Conditions	VC-TXO-23SM			Units
		MIN	TYP	MAX	
Frequency Range		10.000		40.000	MHz
Initial Frequency Tolerance	+25°C ±2°C			±1.5	PPM
Frequency Stability	Option A -10 ~ +70°C			±2.5	PPM
	Option B -30 ~ +75°C			±2.5	PPM
	Option C -30 ~ +85°C			±5.0	PPM
Input Voltage Change	±3.0 VDC ±5%			±0.3	PPM
Load Change	10k Ω ±10%/10pF ±10%			±0.2	PPM
Aging	Per Year @ +25°C ±3°C			±1.0	PPM
Storage Temperature		-40		+85	°C
Supply Voltage		+2.85	+3.0	+3.15	V DC
Input Current	Without Load			1.5	mA
Output Level		0.8			Vp-p
Output Load	10k Ω // 10pF				
Output Waveform	Clipped sine wave (DC-Coupling)				
Frequency Control Range	+1.5 VDC ±1V Positive Slope	±9		±15	PPM
Control Voltage		+0.5	+1.5	+2.5	VDC
SSB Phase Noise	-130 dBc/Hz at 1 KHz offset				
Startup Time				3.5	ms
IR Reflow Resistance				±1.0	PPM
Reflow Condition	+250°C ±10°C for 10 seconds				

Part Numbering Guide: VC-TXO-23SM-192-B

Series	-	Frequency Abbreviations	-	Frequency Stability
VC-TXO-23SM		100 = 10.000 MHz 192 = 19.200 MHz 196.8 = 19.680 MHz 198 = 19.800 MHz 200 = 20.000 MHz 260 = 26.000 MHz		A = ±2.5 ppm -10 ~ +75°C B = ±2.5 ppm -30 ~ +75°C C = ±5.0 ppm -30 ~ +85°C

Package Dimensions (mm)

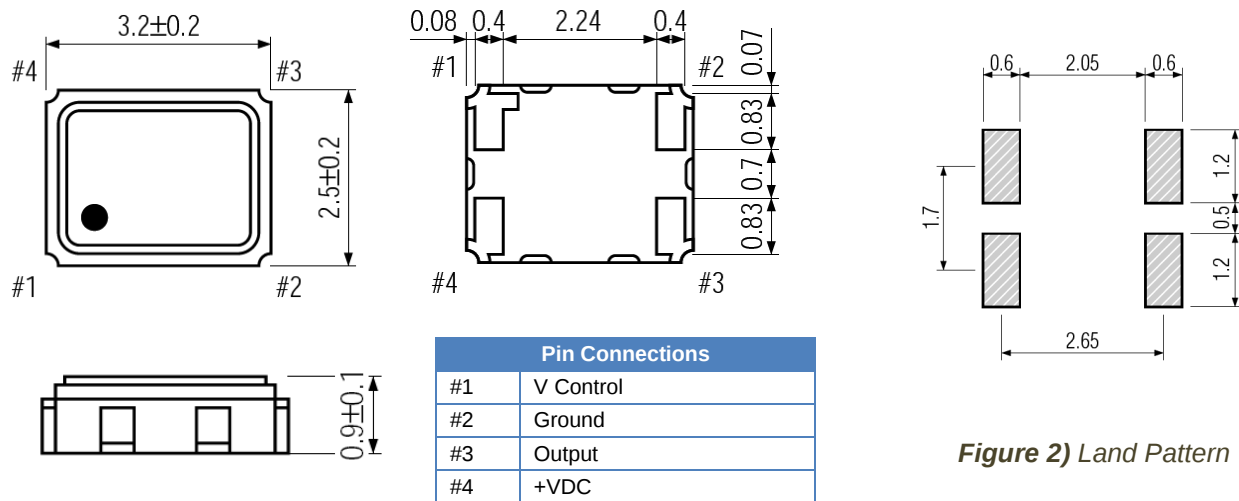


Figure 2) Land Pattern

Figure 1) Top, Side, and Bottom views

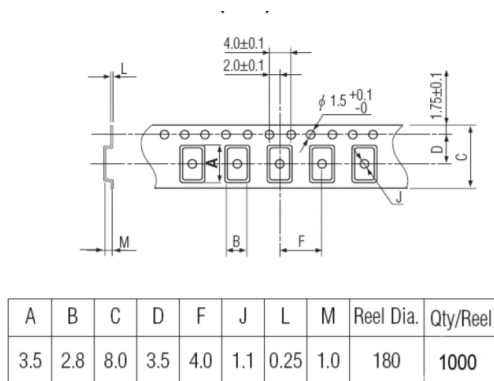


Figure 3) Pocket Tape Dimensions

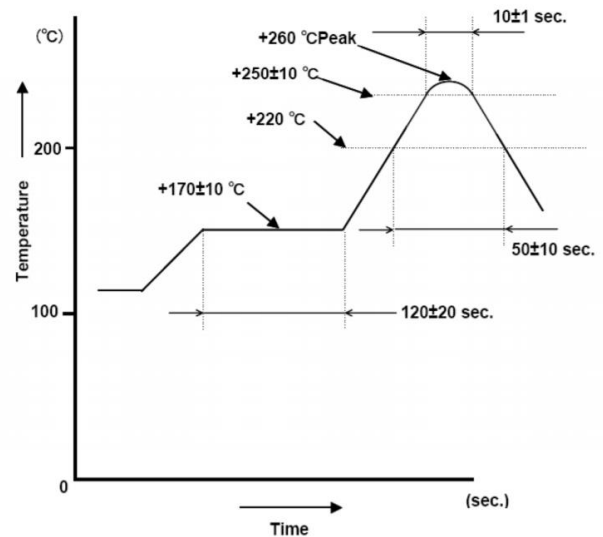


Figure 4) Suggested Reflow Profile

Package Data	
Item	Description
Lid	Metal
Base	Ceramic
Sealing	Seam
Terminal	Tungsten (metalized)
Plating	Gold/Nickel (Surface)/(Under)
RoHS	Compliant (Pb Free)

Mouser Electronics

Authorized Distributor

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ECS:

[VC-TXO-23SM-192-B-TR](#) [VC-TXO-23SM-260-B-TR](#) [VC-TXO-23SM-196.6-B-TR](#) [VC-TXO-23SM-200-B-TR](#) [VC-TXO-23SM-192-B](#) [VC-TXO-23SM-100-B](#) [VC-TXO-23SM-260-B](#) [VC-TXO-23SM-200-B](#)