

The ECS-VXO-73 (3.3V) and ECS-VXO-75 (5.0V) are miniature VCXO's Voltage Controlled Crystal Oscillator with tri-state in a ceramic SMD package. The low profile package is ideal for today's advanced portable PC and instrumentation applications.

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OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-VXO-73/ VXO-75



- 3.3V & 5.0V versions
- 1.6 mm profile
- Low power consumption
- Tri-State
- Seam welded package
- Tape & Reel (1,000 pcs standard)
- PbFree/RoHS Compliant

Parameters	Conditions	ECS-VXO-73 (3.3V)			ECS-VXO-75 (5.0V)			Units
		MIN	TYP	MAX	MIN	TYP	MAX	
Frequency Range		3.000		77.760	3.000		77.760	MHz
Temperature Range	Operating	-10		+70	-10		+70	°C
	Storage	-40		+85	-40		+85	°C
Supply Voltage		+3.14	+3.3	+3.465	+4.75	+5.0	+5.25	V DC
Frequency Stability*	All Conditions			±50			±50	PPM
Frequency Pulling Range		±90			±100			PPM
Control Voltage		0	+1.65	+3.3	+0.5	+2.5	+4.5	V DC
Frequency Linearity	Positive Slope			±15			±10	%
Input Current	No Load			20			40	mA
Output Symmetry	@ ½ V _{CC} Level	40/60		60/40	40/60		60/40	%
Rise and Fall Times				5			5	nS
Logic "0" Level				10% V _{CC}			10% V _{CC}	V DC
Logic "1" Level		90% V _{CC}			90% V _{CC}			V DC
Load	CMOS			15			15	pF
Start-Up Time				10			10	ms
Modulation Bandwidth	(-3 dB)	10			10			KHz
Disable Time				100			100	ns

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging shock and vibration.

Note: A 0.01–0.1 µF bypass capacitor should be placed between V_{CC} (Pad 6) and GND (Pad 3) for stable oscillation to minimize power line noise.

Part Numbering Guide: Example ECS-VXO-73-270

ECS - Series - Frequency Abbreviations

ECS

VXO-73 = +3.3V
VXO-75 = +5.0V

270 = 27.000 MHz

Package Dimensions (mm)

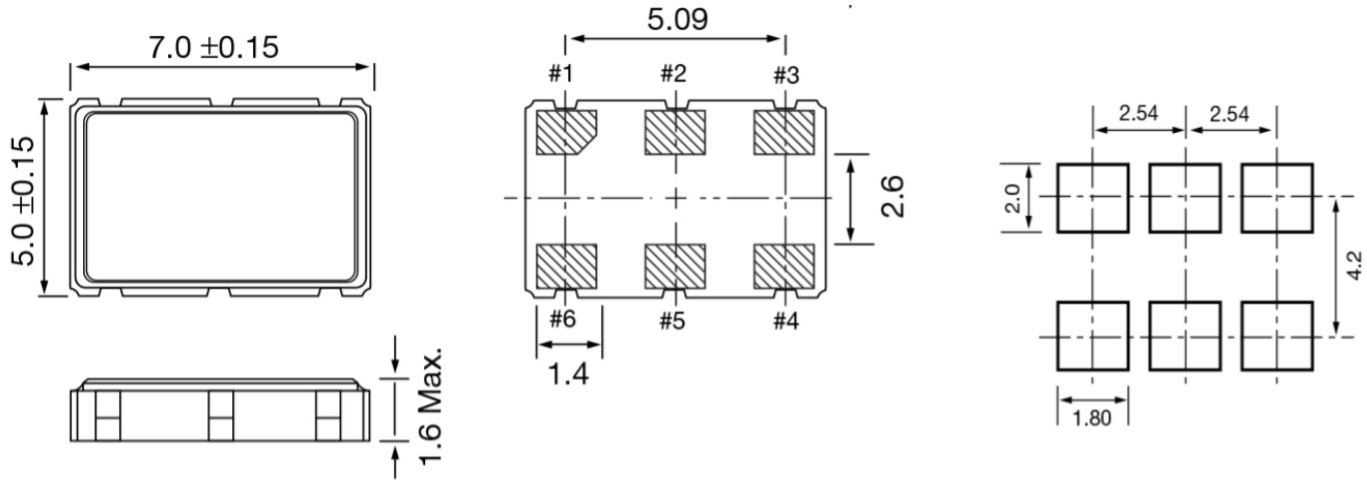


Figure 1) Top, Side, and Bottom views

Figure 2) Land Pattern

Pin Connections	
#1	V Control
#2	Tri-State
#3	Ground
#4	Output
#5	NC
#6	V _{CC}

ECS-VXO-73/VXO-75 Tri-State Control Voltage		
VXO-73, Pad 2	VXO-75, Pad 2	Pad 4
Open	Open	Oscillation
+2.2V Min	+3.5V Min	Oscillation
+0.8V Min	+1.5V Min	High

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