



VC-T1/T3 Series

1.0 to 54.0MHz



VCXO is a Voltage Controlled Crystal Oscillator.

This type of oscillator is a full size tri-state Enable/Disable control. The metal package with pin #4 case ground acts as shielding to minimize EMI radiation.

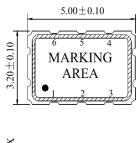
FEATURES

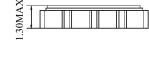
- Miniature Package
- Industry Standard
- Tape and Reel
- RoHS meet

Electrical Specifications

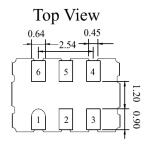
Parameter	Symbol	Condition	VC-T1	VC-T3	
Frequency Range	F ₀		1.0 to 54.0MHz		
Frequency Calibration		At 25°C	±15PPM		
Frequency Stability *		All Condition *	±15PPM, ±25PPM, ±50PPM		
Stability vs. Power Change		V _{DD} ±5%	±5PPM		
Stability vs. Load Change		15pF±10%	±3PPM		
Pullability Over Control Voltage Range			±50PPM, ±100PF	±50PPM, ±100PPM, ±200PM	
Power Supply Voltage	V_{DD}		5.0V±10%	3.3V±10%	
Control Voltage Range			0.5 ~ 4.5V	0 ~ 3.3V	
Operating Temperature Range	TO _{PR}		0°C to 70°C (-40°C to 85°C option)		
Storage Temperature Range	T _{STG}		-55°C to 1	-55°C to 125°C	
Aging (first year)		25°C ± 3°C	± 5PPM		
Supply Current	I _{DD}		30mA Max		
Output Symmetry	Sym	½ V _{DD}	40/60% (45/55% option)		
Rise Time	T _r	10%V _{DD} to 90%V _{DD}	10ns Max	8ns Max	
Fall Time	T_f	90%V _{DD} to 10%V _{DD}	10ns Max	8ns Max	
Output Voltage	V _{OH}		90% V _{DD} Min		
	V _{OL}		10% V _{DD} Max		
Output Load			15pF Max		
Startup Time	Ts		10ms Max		
* Include 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration					

Mechanical Dimensions – mm (inch)





Pin	Connection
1	Vcontrol
2	Tri-state
3	GND
4	Output
5	N.C.
6	V_{DD}



Recommended Solder Pattern

