

VCXO - Full Size Voltage Controlled Crystal Oscillators

VC-61 / 63

20.4X12.9X5.08mm



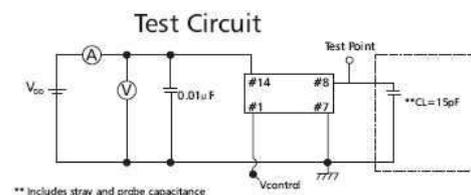
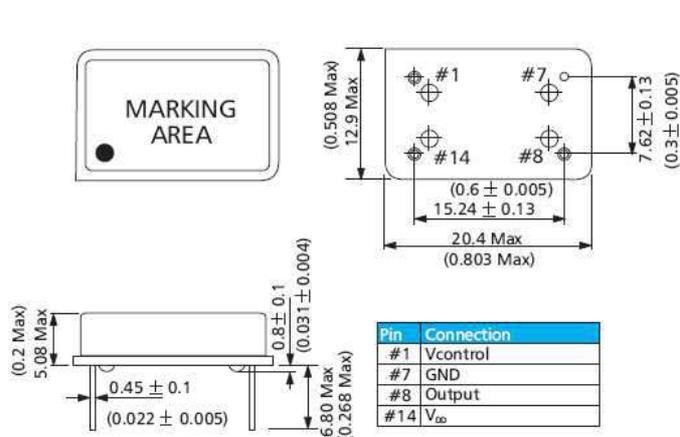
FEATURES

- 14 Pin Full Size
- Industry Standard
- Wide Frequency Range
- Resistance Weld Package
- RoHS meet

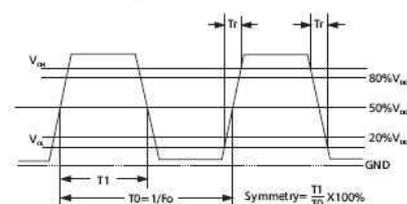
Electrical Specifications

Parameter	Symb	Condition	VC-61	VC-63
Frequency Range	Fo	---	1.000MHz ~ 40.000MHz	
Frequency Calibration		at 25°C	±15ppm	
Temperature Stability	Tc	ref to 25°C	±15ppm, ±25ppm, ±50ppm	
Stability vs. power change	---	V _{DD} ±5%	±5ppm	
Stability vs. load change	---	15pF±10%	±3ppm	
Pullability Over Control Voltage Range	---	---	±50ppm, ±100ppm, ±200ppm	±50ppm, ±100ppm, ±150ppm
Control Voltage Range	---	---	0.5 ~ 4.5V	0 ~ 3.3V
Operating Temperature Range	T _{OPR}	---	0°C ~ +70°C (-40°C ~ +85°C option)	
Storage Temperature Range	T _{STG}	---	-55°C ~ +125°C	
Power Supply Voltage	V _{DD}	---	5.0V±5%	3.3V±5%
Aging (at 25°C)	CL	25°C ±3°C	±5ppm	
Supply Current	I _{DD}	1 to 23.999MHz	15mA Max	10mA Max
		24 to 40.000MHz	25mA Max	20mA Max
Output Symmetry	Sym	At 1/2V _{DD}	40/60% (45/55%Option)	
Rise time	Tr	20%V _{DD} ~80%V _{DD}	10nS Max	8nS Max
Fall Time	Tf	80%V _{DD} ~20%V _{DD}	10nS Max	8nS Max
Output Voltage	V _{OH}	---	90%V _{DD} min	
	V _{OL}	---	10%V _{DD} max	
Output Load	---	---	15pFMax	
Start-up Time	---	---	10mS Max	

Mechanical Dimensions (mm)



Output Waveform



*** note: A 0.01 uF bypass capacitor should be placed between VDD(pin6) and GND(pin3) to minimize power supply line noise