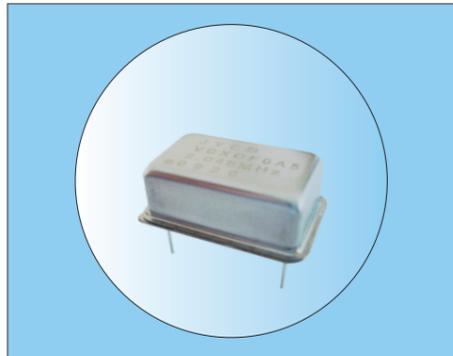


# Crystal Oscillators

## Voltage Controlled Crystal Oscillator/VCXO-14



### Features

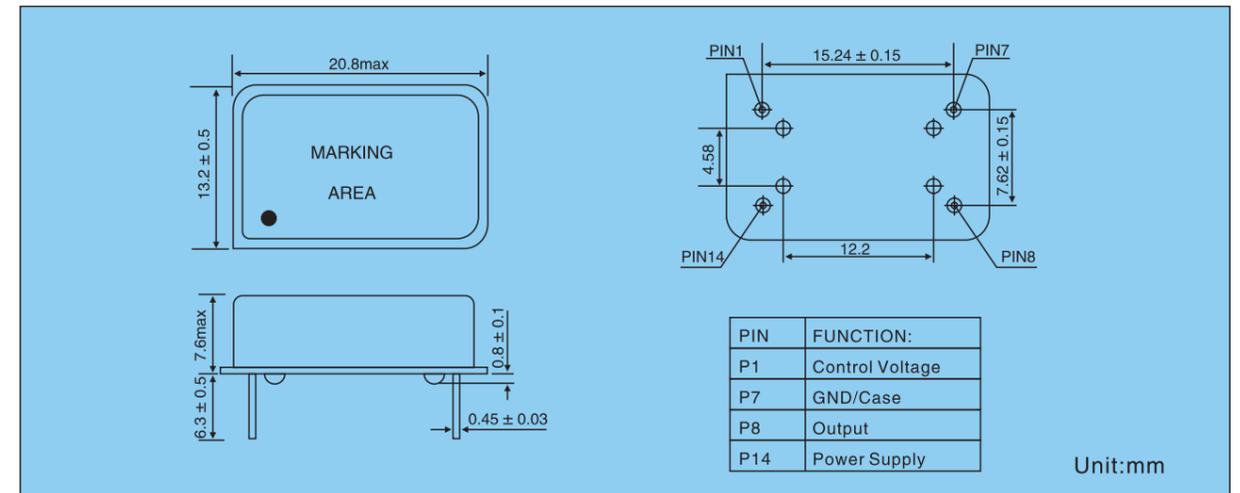
- JYEG part number: JYVC14
- Wide Frequency Range up to 125MHz
- HCMOS, LVCMOS, Sine Wave
- APPLICATIONS:  
SDH/SONET, ATM, PLL Circuits  
Measurement Equipment

### TYPICAL SPECIFICATIONS

Type	VC14
Frequency Range	2~125MHz
Operating Temperature Range	-40~+85°C
Absolute Pulling Range	±75ppm Min., ±100ppm Min.
Output Waveform and Load Characteristics	Sine Wave, HCMOS, LVCMOS
Control Voltage Range	0.1~0.9VDD
Center Voltage	0.5VDD
Linearity	< ±10%
Input Impedance	≥50k ohm
Modulation Bandwidth	Customer Specify
Supply Voltage	+3.3VDC, +5.0VDC, ±5%
Supply Current	<40MHz, 25mA(Max. ) ; <125MHz, 40mA(Max. )
Package	DIP14
Storage Temperature Range	-40~+100°C

# Crystal Oscillators

## VCXO-14

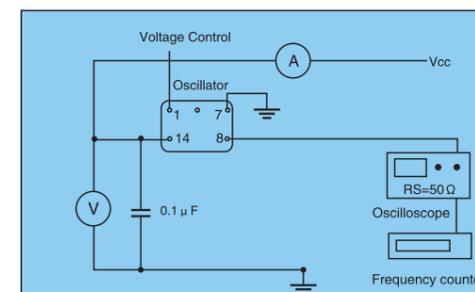


### OUTPUT WAVEFORM AND LOAD CHARACTERISTICS

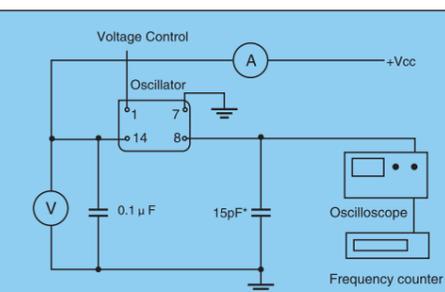
Output Waveform	Sine Wave
Output Characteristics	Load: Nominal 50Ω Output level: > 5dBm Harmonic Suppression: < -25dB

Output Waveform	HCMOS/LVCMOS
Output Characteristics	Load: 15pF typical, 50pF available "1" level: > 0.9VDD; "0" level: < 0.1VDD Duty cycle: 40/60

### Test Circuit-Sine Wave



### Test Circuit-CMOS



\* inclusive of jigging and equipment capacitance\*