

# Voltage Controlled Crystal Oscillator

## VCX91,92



- Applications  
Set-top Box • MPEG • ADSL • Frequency Transmission

- Features  
Ultra-thin • Dimensions(7.0×5.0×1.7)  
Ceramic SMD Package • Leadless Type • Seam Sealed  
Low Control Voltage and CMOS Output  
Reflow Soldering • Emboss Taping • wide pulling range  
Tri-state Option • RoHS Compliant



### ▼ Specifications

Model		VCX91,VCX92	
Nominal frequency range		1.5~54MHz	
Nominal frequency		27.000, 35.328MHz	
Storage temperature range		-40~+85°C	
Operating temperature range		-20~+70°C	
Frequency stability		±30×10 <sup>-6</sup> , ±50×10 <sup>-6</sup>	
Power supply voltage		+5.0V DC±10%	+3.3V DC±10%
External control function / External control voltage		±100×10 <sup>-6</sup> min. / +2.5V±2.0V DC.	±100×10 <sup>-6</sup> min. / +1.65V±1.5V DC(<45MHz)
			±75×10 <sup>-6</sup> min. / +1.65V±1.5V DC(45MHz≤)
Current consumption		15mA max.(F≤20MHz) 20mA max.(20-30MHz) 25mA max.( >30MHz) 30mA max.( >40MHz)	10mA max.(F≤20MHz) 15mA max.(20-30MHz) 20mA max.( >30MHz) 25mA max.( >40MHz)
Output	Load	CMOS(15pF)	
	Level	V <sub>OL</sub> :10%V <sub>dd</sub> max. / V <sub>OH</sub> :90%V <sub>dd</sub> min.	
	Rise & Fall time	6ns max. / 0.1V <sub>dd</sub> ~0.9V <sub>dd</sub>	
	Duty cycle	45%-55% at 1/2V <sub>dd</sub>	
Phase noise		-130dBc / Hz max.( at 1kHz)	
Tri-state Function / VCX92		#2:N.C. or "H"→Output enable / #2:"L"→Hi-Z (Output disable)	

Please consult with us for more details. sales@siward.com.tw

### ▼ Outline Dimensions [unit:mm]

